

IMPERIAL INSTITUTE

THE MINERAL INDUSTRY OF  
THE BRITISH EMPIRE  
AND  
FOREIGN COUNTRIES

STATISTICAL SUMMARY  
(Production, Imports and Exports)  
1931-1933

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# IMPERIAL INSTITUTE

## SOUTH KENSINGTON, S.W.7

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The Imperial Institute was established to promote the industrial utilization of the raw materials of the Empire.

*Intelligence.*—Special departments deal with enquiries relating to the sources, production, uses and marketing of raw materials, and with the collection and dissemination of general and statistical information on this subject.

*Investigations.*—The laboratories of the Institute are specially equipped for the chemical and technical examination of raw materials of all kinds with a view to determining their possible uses and value. Full reports are furnished on the composition, uses and value of materials submitted.

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All enquiries will be promptly dealt with and should be addressed—

The Director, Imperial Institute,  
South Kensington, London, S.W.7.

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## INTRODUCTORY NOTE

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Throughout the trade statistics in this document, materials imported or exported on government account have been included as far as possible.

Trade statistics for the United Kingdom include the trade of Great Britain and Northern Ireland with the Irish Free State, and exclude the direct foreign trade of the Irish Free State, which is given separately.

Export statistics for Germany include deliveries on reparations account up to June, 1932.

Trade statistics for Japan do not include trade between that country and the rest of the Japanese Empire. Trade figures for Korea and Formosa include the trade with all other parts of the Japanese Empire.

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.

Further particulars relating to the various minerals and metals referred to in this summary will be found in the brochures published by the Mineral Resources Department of the Imperial Institute (see lists on cover). These brochures contain much information which has a bearing on the statistical data recorded in this volume.

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## ABRASIVES

### PRODUCTION OF NATURAL ABRASIVES

(Long tons)

Producing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE.</b>			
Union of South Africa—			
Corundum .. .. .	1,122	323	1,164
Canada—			
Grindstones .. .. .	177	179	} 68
Pulpstones .. .. .	305	54	
Sharpening stones .. .. .	72	61	
India—			
Garnet sand .. .. .	—	147	295
New Zealand—			
Pumice (b) .. .. .	2,321	3,166	2,387
<b>FOREIGN COUNTRIES.</b>			
Belgium—			
Grindstones ( <i>number</i> ) .. .. .	67,600	44,820	(a)
France—			
Millstones .. .. .	27,300	(a)	(a)
Sharpening stones .. .. .	450	(a)	(a)
Germany (Bavaria only)—			
Emery .. .. .	217	205	(a)
Whetstones .. .. .	8	2	(a)
Greece—			
Emery .. .. .	11,445	8,794	(a)
Millstones ( <i>number</i> ) .. .. .	1,878	11,025	(a)
Italy—			
Pumice .. .. .	47,842	42,124	51,966
Grindstones .. .. .	197	108	(a)
Sharpening stones .. .. .	723	640	(a)
Whetstones .. .. .	702	610	604
Sweden—			
Millstones, etc. .. .. .	56	82	(a)
Yugoslavia—			
Millstones ( <i>number</i> ) .. .. .	461	830	221

(a) Information not available.

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

PRODUCTION OF NATURAL ABRASIVES (*Cont.*)

Producing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Egypt—			
Pumice .. .. .	—	—	1,376
Madagascar—			
Corundum .. .. .	9	(55 lb.)	—
United States—			
Emery .. .. .	457	223	943
Garnet .. .. .	2,630	1,741	2,495
Pumice .. .. .	61,446	47,513	54,661
Tripoli .. .. .	23,823	13,192	18,641
Millstones, chasers, etc. .. .. .	(£1,162)	(£1,269)	(£1,995)
Grindstones .. .. .	6,245	5,358	9,997
Pulpstones .. .. .	1,545	1,488	2,660
Oilstones, whetstones, etc. .. .. .	330	296	524
Turkey—			
Emery .. .. .	3,433	6,220	6,905
Millstones ( <i>number</i> ) .. .. .	5,201	1,365	(a)

Abrasives are also produced in other countries; statistics not being available.

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

	1931	1932	1933
Silicon carbide .. .. .	9,602	2,825	7,042
Fused alumina .. .. .	31,947	5,945	18,721

(a) Information not available.

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

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Abrasives, natural and artificial	2,756	2,754	3,409
Oil stones .. .. .	1	10	7
Grinding wheels of—			
Artificial corundum, etc. ..	15	68	143
Carborundum .. .. .	149	166	313
Emery .. .. .	85	107	164
Other hard abrasives .. ..	16	68	145
Grindstones, millstones and whetstones .. .. .	4,890	3,711	4,437
Union of South Africa—			
Corundum .. .. .	680	301	805
Canada—			
Natural abrasives, including diatomaceous earth .. ..	642	1,001	1,611
Artificial abrasives .. ..	38,000	10,990	28,078
Artificial abrasive wheels, etc. ..	(£4,099)	(£6,069)	(£7,967)
Grindstones .. .. .	(£2,219)	(£1,890)	(£630)
Hong Kong (including re-exports)—			
Emery, etc. .. .. .	(£4,815)	(£3,955)	(£3,034)
New Zealand—			
Pumice .. .. .	2,321	3,166	2,387
FOREIGN COUNTRIES			
Austria—			
Emery, etc. .. .. .	60	42	44
Pumice .. .. .	54	37	42
Millstones .. .. .	151	152	402
Grindstones, natural .. ..	118	85	112
do. artificial .. .. .	93	70	107
Belgium-Luxemburg E.U.—			
Millstones and grindstones ..	252	157	215
Other abrasives .. .. .	134	31	330
Bulgaria—			
Millstones, grindstones, etc. ..	108	68	61
Czechoslovakia—			
Emery and pumice .. .. .	6	4	64
Carborundum .. .. .	215	72	91
Grindstones, etc., natural ..	147	136	89
do. carborundum .. .. .	294	343	376
do. emery, etc. .. .. .	384	475	719
Other abrasives .. .. .	3	3	25

## EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—			
Corundum and emery .. .. .	1,504	409	965
Pumice .. .. .	263	268	289
Millstones and grindstones .. .. .	3,490	2,666	2,621
Whetstones .. .. .	300	223	245
Carborundum .. .. .	402	230	203
Other artificial abrasives .. .. .	841	1,841	1,761
Germany—			
Emery .. .. .	790	635	572
Carborundum .. .. .	5,687	3,302	5,072
Millstones, grindstones, etc. .. .. .	10,489	7,458	8,674
Other abrasives .. .. .	9,116	9,593	9,110
Greece—			
Emery .. .. .	7,610	4,893	6,958
Hungary—			
Millstones .. .. .	19	11	16
Grindstones .. .. .	4	1	—
Italy—			
Emery and corundum .. .. .	8	38	26
Pumice .. .. .	35,117	33,029	41,288
Whetstones, natural .. .. .	269	241	245
Grindstones, natural .. .. .	28	19	25
Millstones, natural .. .. .	84	58	19
do. artificial .. .. .	10	2	—
Artificial abrasives .. .. .	4	9	5
Netherlands—			
Emery .. .. .	1,806	1,345	1,853
Norway—			
Millstones, grindstones, etc. .. .. .	926	881	1,506
Poland—			
Millstones and grindstones .. .. .	176	55	120
Roumania—			
Millstones and grindstones .. .. .	18	3	—
Sweden—			
Emery .. .. .	5	1	3
Other natural abrasives .. .. .	104	43	19
Carborundum, etc. .. .. .	382	587	557
Millstones, grindstones, etc. .. .. .	554	468	795
Switzerland—			
Carborundum, emery, etc., crude .. .. .	18	60	305
do. do. ground .. .. .	841	947	736
Grindstones .. .. .	10	27	11

EXPORTS OF ABRASIVES (*Cont.*)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Yugoslavia—			
Millstones .. .. .	166	130	125
Grindstones, natural .. ..	342	245	255
do. artificial .. ..	7	4	8
Madagascar—			
Corundum .. .. .	1	—	1
United States—			
Wheels of emery and corundum ..	128	69	222
Grindstones .. .. .	1,074	1,374	1,293
Other natural abrasives .. ..	3,114	2,398	3,179
Crude artificial abrasives .. ..	5,907	3,107	5,976
Artificial abrasive wheels .. ..	1,471	811	698
Turkey—			
Emery and carborundum .. ..	152	1,168	} (a)
Millstones and grindstones .. ..	164	50	
Whetstones, pumice, etc. .. ..	1	—	

(a) Information not available.

## IMPORTS OF ABRASIVES

(Less Re-exports)

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Emery .. .. .	5,354	6,709	6,003
Artificial corundum .. .. .	2,241	2,269	3,969
Carborundum .. .. .	1,413	1,908	2,307
Other hard abrasives .. .. .	10,272	8,802	12,416
Oilstones .. .. .	2	3	3
Grinding wheels of—			
Artificial corundum, etc. .. .. .	251	20	32
Carborundum .. .. .	167	217	140
Emery .. .. .	84	39	49
Other hard abrasives .. .. .	16	17	20
Grindstones, millstones and whetstones .. .. .	380	171	90
Irish Free State—			
Grindstones, oilstones, etc. .. .. .	177	142	131
Kenya and Uganda—			
Grindstones .. .. .	3	(£17)	(£60)
Tanganyika—			
Grindstones .. .. .	4	(£226)	(£455)
Union of South Africa—			
Emery .. .. .	8	5	6
Pumice .. .. .	70	74	169
Other abrasives ( <i>£ South African</i> )	(£1,436)	(£1,107)	(£1,424)
Emery and other wheels ( <i>do.</i> )	(£9,157)	(£7,289)	(£12,106)
Grindstones, millstones, etc. ( <i>£ South African</i> )	(£1,570)	(£893)	(£1,506)
Canada—			
Pumice, etc. .. .. .	(£7,303)	(£5,610)	(£4,016)
Emery, ground .. .. .	(£5,565)	(£7,831)	(£5,827)
Artificial abrasives, ground .. .. .	(£38,713)	(£38,692)	(£43,153)
Corundum ( <i>estimated</i> ) .. .. .	37	36	36
Garnet ( <i>estimated</i> ) .. .. .	90	45	67
Emery, carborundum and other manufactures .. .. .	(£42,034)	(£50,404)	(£17,256)
Grindstones .. .. .	(£25,926)	(£21,920)	(£17,546)
Ceylon—			
Grindstones .. .. .	(£1,102)	(£1,023)	(£948)
Hong Kong (total imports)—			
Emery, etc. .. .. .	(£8,994)	£8,722	(£4,169)
Australia—			
Abrasive .. .. .	(£10,393)	(£7,400)	(£12,396)

## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
New Zealand—			
Pumice .. .. .	3	33	25
Grindstones, etc. .. .. .	(£3,438)	(£2,985)	(£3,341)
FOREIGN COUNTRIES			
Austria—			
Emery, etc... .. .	402	357	420
Pumice .. .. .	367	354	229
Millstones .. .. .	394	217	232
Grindstones, natural .. .. .	1,101	498	666
do. artificial .. .. .	209	173	111
Belgium-Luxemburg E.U.—			
Millstones and grindstones .. .. .	1,502	1,007	999
Other abrasives .. .. .	7,582	4,592	6,280
Bulgaria—			
Millstones, grindstones, etc. .. .. .	296	271	109
Czechoslovakia—			
Emery .. .. .	365	309	429
Pumice .. .. .	18	29	13
Carborundum .. .. .	574	369	748
Grindstones, etc.—natural .. .. .	1,079	762	600
do. carborundum .. .. .	20	21	4
do. emery, etc. .. .. .	154	88	48
Other abrasives .. .. .	18	1	2
Denmark—			
Emery, etc. .. .. .	112	105	183
Pumice .. .. .	209	162	420
Millstones and grindstones .. .. .	374	210	266
Estonia—			
Grindstones, etc.—natural .. .. .	454	358	394
do. artificial .. .. .	12	9	10
Millstones .. .. .	17	18	24
Finland (total imports)—			
Emery .. .. .	88	150	169
Pumice .. .. .	54	57	65
Other natural abrasives .. .. .	10	12	18
Whetstones, grindstones, etc.—			
Natural .. .. .	176	142	306
Artificial .. .. .	1,053	1,066	1,634

## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—			
Corundum and emery .. .. .	2,107	1,282	2,032
Pumice .. .. .	17,042	26,889	46,670
Millstones and grindstones .. .. .	284	294	172
Whetstones .. .. .	364	236	257
Carborundum .. .. .	651	443	1,029
Other artificial abrasives .. .. .	585	266	815
Germany—			
Emery .. .. .	1,925	1,708	1,454
Carborundum .. .. .	2,535	1,940	2,471
Millstones, grindstones, etc. .. .. .	1,011	719	846
Other abrasives .. .. .	96	63	245
Hungary—			
Emery .. .. .	57	32	72
Millstones .. .. .	46	20	28
Grindstones .. .. .	494	501	716
Italy—			
Emery and corundum .. .. .	448	328	469
Pumice .. .. .	2	—	3
Artificial abrasives .. .. .	416	557	763
Whetstones, natural .. .. .	142	102	110
Grindstones, natural .. .. .	665	615	586
Millstones, natural .. .. .	148	75	106
do. artificial .. .. .	199	208	150
Latvia—			
Emery .. .. .	13	5	17
Pumice .. .. .	15	19	35
Grindstones, etc. .. .. .	218	64	217
Lithuania—			
Emery, etc. .. .. .	54	98	43
Netherlands—			
Emery .. .. .	1,318	1,770	2,093
Norway—			
Emery grains .. .. .	249	334	459
Millstones, grindstones, etc. .. .. .	1,338	1,732	1,112
Poland—			
Grindstones .. .. .	233	239	447
Millstones .. .. .	109	81	100
Other abrasives .. .. .	471	237	398
Portugal—			
Emery .. .. .	86	43	12



## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Roumania—			
Emery, etc. . . . .	82	34	51
Millstones . . . . .	222	167	405
Grindstones . . . . .	415	247	385
Spain—			
Emery . . . . .	59	120	115
Carborundum . . . . .	10	39	23
Sweden—			
Emery . . . . .	515	438	586
Other natural abrasives . . . . .	1,286	807	912
Carborundum, etc. . . . .	208	167	174
Millstones, grindstones, etc. . . . .	1,413	1,088	1,177
Switzerland—			
Carborundum, emery, etc., crude	88	69	218
do. do. ground	216	207	249
Millstones . . . . .	138	64	86
Grindstones . . . . .	723	605	599
Whetstones . . . . .	41	49	57
U.S.S.R. (Russia)—			
Emery and corundum, ground . . . . .	7	2	—
Millstones, natural . . . . .	122	140	} 756
do. artificial . . . . .	343	576	
Other abrasives, artificial . . . . .	2,980	1,547	1,624
Yugoslavia—			
Millstones . . . . .	50	35	19
Grindstones, natural . . . . .	69	34	15
do. artificial . . . . .	124	51	54
Other abrasives . . . . .	169	122	182
Algeria—			
Emery, corundum, etc. . . . .	14	7	(a)
Pumice . . . . .	101	171	(a)
Millstones and grindstones . . . . .	162	119	96
Egypt—			
Emery, pumice, etc. . . . .	75	283	44
Millstones . . . . .	296	231	246
Grindstones . . . . .	120	114	144
Whetstones . . . . .	32	35	71
Morocco—			
Millstones and grindstones . . . . .	88	50	45
Tunis—			
Emery and pumice . . . . .	137	61	215
Millstones and grindstones . . . . .	68	24	19

(a) Information not available.

## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Cuba (total imports)—			
Grindstones .. .. .	446	422	(a)
Mexico—			
Emery .. .. .	172	188	418
Pumice .. .. .	2	—	—
United States—			
Corundum, crude (total imports)	639	168	925
Emery, crude (total imports) ..	2,103	602	262
Corundum and emery, ground ..	56	10	22
Pumice .. .. .	5,846	3,962	6,068
Tripoli, etc. .. .. .	3,650	1,873	3,678
Grindstones .. .. .	571	277	369
Crude artificial abrasives (total imports) .. .. .	35,078	7,631	23,484
Argentina—			
Emery .. .. .	188	130	197
Pumice .. .. .	58	38	44
Grindstones .. .. .	322	394	488
Oil stones .. .. .	9	4	9
Brazil (total imports)—			
Emery and glass powder .. ..	66	105	(a)
Chile—			
Emery, pumice, etc. .. ..	14	6	6
Colombia—			
Emery and pumice .. .. .	5	4	(a)
Millstones and grindstones ..	6	12	(a)
Ecuador—			
Millstones and grindstones ..	31	51	} (a)
Other abrasives .. .. .	7	3	
Peru—			
Emery and pumice .. .. .	8	6	8
Grindstones .. .. .	4	6	4
Venezuela—			
Emery and pumice .. .. .	4	3	(a)
Millstones and grindstones ..	203	258	(a)
China—			
Corundum .. .. .	11	6	9
French Indo-China—			
Emery and corundum, ground ..	128	113	174
Pumice .. .. .	1	3	1
Grindstones and millstones ..	39	31	39

(a) Information not available.

IMPORTS OF ABRASIVES (*Cont.*)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Japan (total imports)—			
Abrasive .. .. .	3,226	3,048	2,719
Grindstones, artificial .. .. .	37	25	2,702
Netherlands East Indies—			
Emery .. .. .	27	41	63
Syria and Lebanon—			
Emery .. .. .	12	12	8
Turkey—			
Emery and carborundum, crude	6	8	} (a)
Millstones and grindstones ..	147	148	
Whetstones, pumice, etc. . . .	81	72	

(a) Information not available.

**ALUMINIUM**  
(Including Bauxite and Cryolite)

PRODUCTION OF BAUXITE

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Northern Ireland .. ..	3,340	1,473	698
British Guiana—(c)			
60% or more alumina .. ..	124,963	65,107	32,441
50-60% alumina .. ..	—	—	716
30-50% alumina (b) .. ..	32,115	18,396	8,173
India .. .. .	—	—	1,075
Australia .. .. .	1,580	1,129	670
Total .. ..	162,000	86,000	44,000
<b>FOREIGN COUNTRIES</b>			
France .. .. .	397,176	387,446	470,243
Germany .. .. .	—	1,612	(a)
Greece .. .. .	1,132	581	(a)
Hungary .. .. .	88,142	109,796	124,611
Italy .. .. .	66,305	85,186	93,320
Roumania .. .. .	375	602	1,138
Spain .. .. .	—	1,300	(a)
Yugoslavia .. .. .	63,818	66,024	85,274
United States .. .. .	195,895	96,349	154,176
Dutch Guiana .. .. .	170,419	(d)124,522	(d)104,697
Total (*) .. ..	980,000	870,000	1,040,000
WORLD'S TOTAL (*) .. ..	1,140,000	960,000	1,080,000

(\*) Excluding the production in Austria and U.S.S.R. (Russia) statistics of which are not available.

(a) Information not available.

(b) Ore remains at the mines.

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

	1931	1932	1933
Metallic .. .. .	104,788	40,276	10,273
Chemical .. .. .	22,685	22,129	25,095
Refractory .. .. .	—	102	716

(d) Exports.

## PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1931 .. .. .	17,427
1932 .. .. .	17,592
1933 .. .. .	10,187

ESTIMATED PRODUCTION OF ALUMINIUM  
(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	14,000	10,000	10,800
Canada .. .. .	28,000	17,500	15,900
Total ..	42,000	27,500	26,700
FOREIGN COUNTRIES			
Austria .. .. .	3,000	2,000	2,100
France .. .. .	(c) 17,865	14,300	14,300
Germany .. .. .	27,000	18,700	18,650
Italy (c) .. .. .	10,931	13,201	11,880
Norway (c) .. .. .	21,082	17,506	15,141
Spain .. .. .	(c) 1,134	(c) 1,136	1,000
Switzerland .. .. .	13,000	8,000	7,400
U.S.S.R. (Russia) .. .. .	(a)	1,000	3,000
United States (c) (d) .. .. .	79,261	46,824	38,003
Total ..	173,000	123,000	111,000
WORLD'S TOTAL .. .. .	215,000	150,000	138,000

(a) Information not available.

(c) Official figures.

(d) Secondary metal was recovered as follows :—

1931 .. .. .	27,054 long tons.
1932 .. .. .	21,400 " "
1933 .. .. .	29,900 " "

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

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Alumina .. .. .	5,847	10,876	16,542
Ingots, etc., alloy and scrap .. .. .	3,987	3,421	4,001
Sheets, tubes, wire, etc. .. .. .	2,016	2,515	3,136
Aluminium sulphates .. .. .	11,956	16,346	14,121
Canada—			
Blocks, bars, scrap, etc. .. .. .	11,281	8,775	15,809
British Guiana—			
Bauxite .. .. .	125,095	64,888	35,916
British India—			
Bauxite .. .. .	828	1,723	(a)
British Malaya (including re-exports)—			
Aluminium sulphate .. .. .	6,473	1,226	2,761
Hong Kong (including re-exports)—			
Aluminium sulphates .. .. .	1,080	1,011	813
Australia—			
Aluminium (£ <i>Australian</i> ) .. .. .	(£980)	(£165)	(£174)
FOREIGN COUNTRIES			
Austria—			
Cryolite .. .. .	21	167	33
Crude, scrap and alloys .. .. .	4,421	1,263	2,215
Sheets, rods, wire, etc. .. .. .	3	4	14
Foil .. .. .	11	7	15
Aluminium sulphates .. .. .	274	293	56
Belgium-Luxemburg E.U.—			
Bauxite, etc. .. .. .	30	1	—
Aluminium hydrates .. .. .	43	50	22
Crude and scrap .. .. .	383	775	432
Sheets, wire, etc. .. .. .	139	47	24
Aluminium sulphates .. .. .	11,509	13,708	24,935
Czechoslovakia—			
Cryolite .. .. .	12	3	2
Denmark—			
Refined cryolite .. .. .	10,897	6,632	11,724

(a) Information not available.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—			
Bauxite .. .. .	165,187	209,131	241,147
Alumina .. .. .	14,971	14,586	19,076
Aluminium hydrates .. .. .	5,593	4,595	5,251
Ingots and scrap .. .. .	245	825	1,694
Sheets, wire, etc. .. .. .	2,248	462	860
Aluminium sulphates .. .. .	12,750	5,767	3,194
Germany—			
Bauxite and cryolite .. .. .	544	634	4
Crude, scrap and alloys .. .. .	4,588	2,501	3,133
Sheets, wire, castings, etc. .. .. .	4,932	3,069	3,935
Foil .. .. .	4,668	5,072	3,615
Aluminium sulphates, etc., including refined bauxite .. .. .	66,639	50,593	50,292
Hungary—			
Bauxite .. .. .	74,705	71,292	57,850
Crude, scrap and alloys .. .. .	27	22	99
Bars, sheets and wire .. .. .	1	1	3
Aluminium sulphates .. .. .	2	18	1
Italy—			
Alumina .. .. .	—	32	54
Crude, scrap and alloys .. .. .	2,850	1,292	3,781
Sheets, tubes, etc. and alloys .. .. .	57	990	11
Aluminium sulphates .. .. .	52	57	59
Netherlands—			
Crude and scrap .. .. .	400	353	525
Foil .. .. .	31	34	20
Norway—			
Alumina .. .. .	(a)	293	601
Ingots and scrap .. .. .	24,047	13,647	15,199
Bars, sheets, tubes and wire .. .. .	1,070	1,395	827
Poland—			
Crude and sheets .. .. .	52	52	86
Roumania—			
Bauxite and scrap .. .. .	5	—	—
Spain—			
Alumina .. .. .	29	1	17
Ingots and scrap .. .. .	307	304	499
Sweden—			
Crude, sheets and strips .. .. .	103	61	36
Aluminium sulphates .. .. .	10,293	13,205	12,299

(a) Information not available.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Alumina, etc. . . . .	29	44	47
Blocks, ingots, etc., and scrap . . . . .	8,793	2,622	3,836
do. (alloys) . . . . .	1,348	475	927
Bars, sheets, tubes and wire . . . . .	822	262	1,247
do. (alloys) . . . . .	94	89	166
U.S.S.R. (Russia)—			
Bauxite . . . . .	—	—	943
Yugoslavia—			
Bauxite . . . . .	47,594	63,754	51,305
Scrap . . . . .	—	19	49
Aluminium hydrates . . . . .	3,551	3,093	3,635
Aluminium sulphates . . . . .	—	29	15
Algeria—			
Ingots . . . . .	24	24	(a)
Greenland—			
Cryolite . . . . .	17,427	17,592	10,187
United States—			
Bauxite, etc. . . . .	88,370	28,474	21,761
Ingots, scrap and alloys . . . . .	674	1,743	2,462
Plates, sheets, etc. . . . .	1,424	237	86
Aluminium sulphates . . . . .	24,703	19,241	25,241
Dutch Guiana—			
Bauxite . . . . .	187,586	124,522	104,697
China—			
Aluminium sulphates . . . . .	1,776	3,096	3,526
French Indo-China—			
Ingots, bars, etc. . . . .	17	15	19
Japan—			
Plates and sheets . . . . .	207	332	236

(a) Information not available.



## IMPORTS OF ALUMINIUM, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Bauxite .. .. .	87,628	121,926	114,922
Cryolite .. .. .	3,174	1,259	1,443
Alumina .. .. .	1,705	1,799	819
Ingots, etc., alloy and scrap .. .. .	16,916	7,913	11,581
Sheets, tubes, wire, etc. .. .. .	5,248	1,380	3,028
Aluminium sulphates .. .. .	23,804	11,706	23,764
Kenya and Uganda—			
Sheets and wire .. .. .	166	136	131
Northern Rhodesia—			
Bars, etc. .. .. .	63	—	—
Southern Rhodesia—			
Ingots and bars .. .. .	22	1	1
Union of South Africa—			
Ingots, bars, sheet and foil .. .. .	214	120	161
Aluminium sulphates .. .. .	142	118	153
Canada—			
Bauxite .. .. .	84,651	46,114	46,904
Cryolite .. .. .	2,202	78	2,113
Alumina .. .. .	893	30	34
Ingots, rods, sheets, etc. .. .. .	973	740	524
Leaf and foil .. .. .	(£27,036)	(£28,399)	(£8,998)
Aluminium sulphates .. .. .	21,448	23,264	25,055
Newfoundland (years ended June 30)—			
Aluminium sulphates .. .. .	(£5,856)	(£5,360)	(£6,118)
British India (total imports)—			
Ingots, blocks, bars, etc. .. .. .	2	12	7
Sheets and circles .. .. .	2,195	871	1,393
Aluminium sulphates .. .. .	3,897	2,889	2,040
British Malaya (total imports)—			
Aluminium sulphates .. .. .	3,155	2,299	3,755
Hong Kong (total imports)—			
Aluminium sulphates .. .. .	921	1,374	654
Australia—			
Cryolite .. .. .	153	69	166
Pigs, ingots, blocks and scrap .. .. .	37	120	210
Sheets, pipes, tubes, rods, etc. .. .. .	336	718	735
Aluminium sulphates .. .. .	71	47	38

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

Importing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE (Cont.)</b>			
New Zealand—			
Bars, sheets, tubes, wire, etc. ..	25	20	35
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bauxite .. .. .	589	176	112
Cryolite .. .. .	110	54	329
Alumina .. .. .	5,590	3,821	2,541
Aluminium hydrates .. .. .	1,287	1,109	785
Crude, scrap and alloys .. .. .	348	127	22
Sheets, rods, wire, etc. .. .. .	550	377	212
Foil .. .. .	67	29	25
Aluminium sulphates .. .. .	691	52	3
Belgium-Luxemburg E.U.—			
Bauxite, etc. .. .. .	2,563	1,586	826
Alumina .. .. .	4	8	11
Aluminium hydrates .. .. .	4,161	6,035	8,912
Crude and scrap .. .. .	2,522	818	1,391
Sheets, wire, etc. .. .. .	452	273	420
Aluminium sulphates .. .. .	1,158	936	1,138
Bulgaria—			
Crude, bars and sheets .. .. .	69	65	52
Aluminium sulphates .. .. .	443	512	380
Czechoslovakia—			
Cryolite .. .. .	279	229	226
Sheets and plates .. .. .	134	69	53
Foil .. .. .	140	193	167
Denmark—			
Crude cryolite .. .. .	9,342	14,697	4,906
Crude and scrap .. .. .	261	265	345
Leaf .. .. .	120	127	144
Aluminium sulphates .. .. .	1,502	1,795	1,393
Estonia—			
Crude, sheets, etc. .. .. .	5	4	14
Aluminium sulphates .. .. .	782	667	811
Finland (total imports)—			
Crude and scrap .. .. .	17	20	8
Bars and sheets .. .. .	75	89	92
Aluminium sulphates .. .. .	5,244	5,925	6,843

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—			
Bauxite .. .. .	3	246	—
Alumina .. .. .	2	4	25
Aluminium hydrates .. .. .	5	17	10
Ingots and scrap .. .. .	174	278	210
Sheets, wire, etc. .. .. .	569	590	1,004
Aluminium sulphates .. .. .	457	479	1,204
Germany—			
Bauxite and cryolite .. .. .	207,657	197,561	235,287
Crude, scrap and alloys .. .. .	4,597	1,740	2,772
Sheets, wire, etc. .. .. .	203	195	156
Aluminium sulphates, etc., including refined bauxite .. .. .	41	230	95
Greece—			
Aluminium .. .. .	65	48	67
Hungary—			
Crude, scrap and alloys .. .. .	305	271	385
Bars, sheets and wire .. .. .	22	7	8
Aluminium sulphates .. .. .	200	281	383
Iceland—			
Aluminium sulphates .. .. .	2	3	(a)
Italy—			
Alumina .. .. .	1,720	2,220	303
Aluminium hydrates .. .. .	737	226	107
Crude, scrap and alloys .. .. .	1,079	79	59
Sheets, tubes, powder and alloys..	457	124	78
Aluminium sulphates .. .. .	4,049	1,718	811
Latvia—			
Ingots, sheets, scrap, etc. .. .. .	64	43	71
Aluminium sulphates .. .. .	555	584	1,164
Netherlands—			
Crude and scrap .. .. .	671	580	871
Foil .. .. .	417	476	501
Aluminium sulphates .. .. .	6,483	5,806	5,117
Norway—			
Bauxite .. .. .	16,985	19,113	20,470
Cryolite .. .. .	1,497	735	800
Alumina .. .. .	31,056	23,052	21,521
Crude aluminium .. .. .	35	1,707	(b) 155
Bars, sheets, etc. .. .. .	116	33	25
Aluminium sulphates .. .. .	2,738	4,020	3,086

(a) Information not available.

(b) Excess of re-exports.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Poland—			
Bauxite .. .. .	1,928	229	1,494
Crude and scrap .. .. .	293	446	556
Sheets and wire .. .. .	288	114	159
Sulphates .. .. .	91	76	111
Portugal—			
Aluminium and alloys .. .. .	117	107	106
Aluminium sulphates .. .. .	446	451	577
Roumania—			
Crude and scrap .. .. .	34	20	58
Sheets and wire .. .. .	54	16	29
Aluminium sulphates .. .. .	391	467	418
Spain—			
Alumina .. .. .	3,525	3,839	3,404
Ingots and scrap .. .. .	57	10	13
Bars, sheets, tubes and wire .. .. .	42	31	49
Aluminium sulphates, etc. .. .. .	141	149	162
Sweden—			
Crude .. .. .	1,885	1,342	1,559
Sheets and strips .. .. .	345	285	244
Aluminium sulphates .. .. .	1,471	878	685
Switzerland—			
Alumina, etc. .. .. .	23,413	17,461	11,120
Blocks, ingots, etc., and scrap .. .. .	489	6	2,022
do. (alloys) .. .. .	30	3	6
Bars, sheets, tubes and wire .. .. .	18	15	10
do. (alloys) .. .. .	18	7	5
Aluminium sulphates .. .. .	206	121	192
U.S.S.R. (Russia)—			
Ingots, sheets, etc. .. .. .	20,048	10,436	10,403
Yugoslavia—			
Bauxite .. .. .	6,464	1,700	1
Aluminium hydrates .. .. .	3	1	25
Crude and scrap .. .. .	24	40	45
Sheets, pipes and wire .. .. .	80	64	47
Aluminium sulphates .. .. .	246	143	200
Algeria—			
Ingots, sheets, wire, etc. .. .. .	101	27	28
Aluminium sulphates .. .. .	246	303	(a)
Egypt—			
Crude, sheets, scrap, etc. .. .. .	18	16	19
Foil .. .. .	22	25	24
Aluminium sulphates .. .. .	1,825	1,350	622
Morocco—			
Aluminium sulphates .. .. .	163	166	144

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Tunis—			
Aluminium sulphates .. ..	73	110	108
Mexico—			
Ingots, bars and sheets .. ..	832	1	103
United States—			
Bauxite .. ..	306,490	205,620	149,548
Cryolite .. ..	7,908	3,782	4,141
Crude, scrap, etc. (b) .. ..	6,163	3,574	7,460
Sheets, bars, etc. (b) .. ..	75	54	76
Refined bauxite .. ..	146	116	46
Aluminium sulphates .. ..	1,145	850	660
Argentina—			
Ingots, sheets and wire .. ..	274	274	424
Aluminium sulphates .. ..	6,565	4,034	6,642
Bolivia—			
Aluminium sulphates .. ..	72	(a)	(a)
Brazil (total imports)—			
Bars, sheets and wire .. ..	409	546	(a)
Chile—			
Bars and sheets .. ..	50	2	1
Aluminium sulphates .. ..	159	29	2
Colombia—			
Ingots, bars, etc. .. ..	11	9	(a)
Aluminium sulphates .. ..	507	548	(a)
Ecuador—			
Aluminium sulphates .. ..	18	8	(a)
Peru—			
Aluminium sulphates .. ..	423	474	331
Venezuela—			
Crude .. ..	1	4	(a)
Aluminium sulphates .. ..	8	58	(a)
China—			
Crude .. ..	(a)	315	640
Sheets and wire .. ..	425	855	645
Foil .. ..	1,487	1,013	431
Formosa—			
Aluminium sulphates .. ..	180	145	(a)
French Indo-China—			
Crude .. ..	34	17	27
Aluminium sulphates .. ..	564	566	531

(a) Information not available.

(b) Total imports.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Iraq (years ended Mar. 31)—			
Aluminium sulphates .. ..	48	94	23
Japan (total imports)—			
Cryolite .. .. .	279	393	215
Ingots, blocks, etc. .. ..	2,744	4,718	3,549
“Manchoukuo”—			
Foil .. .. .	(a)	100	332
Netherlands East Indies—			
Ingots, sheets, wire and alloys ..	576	599	505
Aluminium sulphates .. ..	4,744	3,936	6,104
Syria and Lebanon—			
Aluminium sulphates .. ..	139	89	85
Turkey—			
Bars, sheets, wire and alloys ..	34	33	(a)
Aluminium sulphates .. ..	185	260	(a)

(a) Information not available.

## ANTIMONY

### PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Canada ( <i>ore</i> ) .. .. .	22	—	—
Australia .. .. .	42	60	47
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia .. .. .	556	588	(a)
France .. .. .	811	630	(a)
Greece .. .. .	268	325	(a)
Italy .. .. .	331	372	364
Yugoslavia .. .. .	358	—	—
Algeria .. .. .	100	261	(a)
Morocco (Spanish) .. .. .	70	100	(a)
Mexico .. .. .	5,357	1,317	1,919
United States .. .. .	—	374	524
Bolivia (exports) .. .. .	1,327	1,446	1,866
Peru .. .. .	—	31	39
China (c) .. .. .	18,320	13,675	(b)13,464
Japan ( <i>ore</i> ) .. .. .	2	66	(a)
Korea .. .. .	—	7	—
Turkey .. .. .	21	—	44

(a) Information not available.

(b) Interport exports.

(c) Figures refer to regulus, crude and oxide and not to antimony content.

## EXPORTS OF ANTIMONY, ETC.

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

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Regulus .. .. .	238	237	139
Southern Rhodesia—			
Ore .. .. .	27	—	—
Hong Kong (including re-exports)—			
Ore .. .. .	—	264	—
Crude, regulus and scrap .. .. .	29	89	51
Australia—			
Ores ( <i>Sb content</i> ) (c) .. .. .	597	—	252
Regulus and alloys ( <i>£ Australian</i> )	(£650)	(£93)	(£259)
FOREIGN COUNTRIES			
Austria—			
Regulus .. .. .	14	17	15
Belgium-Luxemburg E.U.—			
Ore .. .. .	112	7	280
Regulus .. .. .	1,268	962	1,382
Czechoslovakia—			
Regulus .. .. .	325	439	685
Compounds .. .. .	5	10	5
France—			
Ore .. .. .	5	47	47
Crude and regulus .. .. .	43	26	24
Oxide and sulphide .. .. .	257	181	205
Germany—			
Ore, including arsenical ores .. .. .	74	38	108
Regulus and scrap .. .. .	156	108	54
Italy—			
Regulus .. .. .	2	—	—
Netherlands—			
Regulus .. .. .	13	36	3
Spain—			
Regulus .. .. .	64	—	—
Sulphide .. .. .	—	60	91
Sweden—			
Ore .. .. .	141	121	94

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



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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Yugoslavia—			
Ore .. .. .	131	—	—
Algeria—			
Ore .. .. .	753	—	—
Mexico—			
Ore and metal ( <i>Sb content</i> ) ..	5,020	1,692	1,871
Bolivia—			
Ore ( <i>Sb content</i> ) .. .. .	1,327	1,446	1,866
Peru—			
Ore ( <i>Sb content</i> ) .. .. .	29	18	12
China—			
Crude .. .. .	1,117	1,865	1,606
Regulus .. .. .	8,653	9,976	10,994
Oxide .. .. .	567	1,121	1,114
Japan—			
Regulus .. .. .	41	60	65
Turkey—			
Ore .. .. .	29	44	(a)
Regulus .. .. .	25	—	(a)

(a) Information not available.

## IMPORTS OF ANTIMONY, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore, including crude .. ..	313	832	748
Regulus .. .. .	4,050	2,999	3,391
Union of South Africa—			
Crude and regulus .. ..	66	6	38
Canada—			
Regulus .. .. .	411	282	280
Hong Kong (including re-exports)—			
Ore .. .. .	19	177	—
Crude, regulus and scrap .. ..	59	124	56
Australia—			
Ore .. .. .	24	262	50
Crude and regulus .. ..	76	80	37
Sulphide .. .. .	12	30	14
New Zealand—			
Antimony .. .. .	16	12	15
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	12	10	14
Regulus .. .. .	114	85	61
Belgium-Luxemburg E.U.—			
Ore .. .. .	2,876	2,182	1,765
Regulus .. .. .	185	381	531
Czechoslovakia—			
Regulus .. .. .	105	61	19
Compounds .. .. .	3	9	4
Denmark—			
Regulus and scrap .. ..	102	127	112
Estonia—			
Crude and regulus .. ..	7	3	8
Finland (total imports)—			
Ore .. .. .	7	9	7
France—			
Ore .. .. .	1,630	972	1,334
Crude and regulus .. ..	1,227	635	1,102
Oxide and sulphide .. ..	69	56	70

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Germany—			
Ore and matte .. .. .	305	146	293
Regulus and scrap .. ..	2,180	1,232	2,078
Italy—			
Regulus .. .. .	432	413	378
Oxide .. .. .	41	22	94
Latvia—			
Regulus .. .. .	1	3	6
Netherlands—			
Regulus .. .. .	104	87	93
Norway—			
Regulus .. .. .	37	42	60
Poland—			
Ore and regulus .. .. .	161	112	135
Oxide and sulphide .. ..	58	55	64
Portugal—			
Crude and alloys .. .. .	9	4	12
Sulphide .. .. .	13	19	18
Roumania—			
Regulus .. .. .	24	27	39
Oxide and sulphide .. ..	3	11	4
Spain—			
Regulus .. .. .	3	3	3
Sulphide .. .. .	55	52	34
Sweden—			
Ore .. .. .	268	126	161
Switzerland—			
Regulus .. .. .	108	96	79
U.S.S.R. (Russia)—			
Regulus and oxide .. ..	1,158	735	292
Yugoslavia—			
Ore .. .. .	1	5	—
Regulus .. .. .	75	6	59
Algeria—			
Regulus .. .. .	20	12	(a)
Canary Islands—			
Sulphide .. .. .	—	60	(a)
Tunis—			
Regulus and sulphide .. ..	7	6	5
United States—			
Ore ( <i>Sb content</i> ) .. .. .	4,342	1,186	1,900
Regulus and crude .. .. .	4,017	1,680	2,196
Argentina—			
Regulus and crude .. .. .	104	68	28

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Chile—			
Regulus .. .. .	352	250	2
Sulphide .. .. .	6	6	(a)
Colombia—			
Crude and alloys .. .. .	9	(a)	(a)
Sulphide .. .. .	9	11	(a)
Peru—			
Regulus .. .. .	2	3	2
China—			
Regulus .. .. .	(a)	8	1
French Indo-China—			
Regulus .. .. .	4	—	4
Sulphide .. .. .	11	6	6
Japan (total imports)—			
Antimony and regulus .. .. .	2,117	2,019	2,478
Netherlands East Indies—			
Antimony .. .. .	40	14	5
Turkey—			
Ore and regulus .. .. .	9	—	(a)

(a) Information not available.

## ARSENIC

PRODUCTION OF ARSENIC  
(Long tons)

Producing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
White arsenic and arsenic soot ..	177	247	121
Union of South Africa—			
White arsenic .. .. .	9	4	—
Canada ( <i>sales</i> )—			
White arsenic .. .. .	1,596	1,082	655
Federated Malay States—			
Arsenic .. .. .	133	—	—
Australia—			
White arsenic .. .. .	1,070	1,964	1,776
FOREIGN COUNTRIES			
Belgium (exports)—			
White arsenic .. .. .	2,462	2,013	2,538
Czechoslovakia—			
Arsenical pyrites, etc. ( <i>As content</i> )	—	1	(a)
France—			
Ore ( <i>As content</i> ) .. .. .	5,683	4,390	(a)
White arsenic .. .. .	4,650	(a)	(a)
Germany—			
Ore ( <i>As content</i> ) .. .. .	1,821	193	(a)
Greece—			
White arsenic .. .. .	649	278	251
Pyrites ( <i>As content</i> ) .. .. .	372	227	(a)
Portugal—			
White arsenic .. .. .	156	10	2
Roumania—			
Pyrites ( <i>As content</i> ) .. .. .	122	27	61
Sweden—			
Ore ( <i>As content</i> ) .. .. .	11,005	19,719	(a)
Mexico—			
White arsenic .. .. .	7,829	3,707	4,623
United States—			
White arsenic .. .. .	15,301	11,343	9,509

(a) Information not available.

PRODUCTION OF ARSENIC (*Cont.*)

Producing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Brazil—			
White arsenic .. .. .	176	(a)	(a)
China—			
White arsenic .. .. .	500	(a)	(a)
Japan—			
White arsenic .. .. .	2,547	2,596	(a)
Turkey—			
Ore ( <i>As content</i> ) .. .. .	22	3	750

*Note.*—About 5,000 tons of ore were recorded as produced in the U.S.S.R. (Russia) during 1927—later figures are not available.

White arsenic is produced in Germany.

(a) Information not available.

## EXPORTS OF ARSENIC, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic .. .. .	—	1	2
White arsenic .. .. .	8	9	21
Other compounds of arsenic .. .. .	172	70	59
Canada—			
White arsenic, etc. .. .. .	1,381	798	417
British Malaya—			
Arsenic .. .. .	133	—	—
Hong Kong (including re-exports)—			
Arsenic .. .. .	7	3	7
Australia (years ended June 30)—			
Metallic arsenic .. .. .	204	1	91
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Ore .. .. .	3	—	15
Sulphide .. .. .	43	23	23
Metallic arsenic .. .. .	—	1	—
White arsenic .. .. .	2,462	2,013	2,538
Czechoslovakia—			
Metallic arsenic .. .. .	—	3	—
White arsenic .. .. .	1	4	1
France—			
Ore .. .. .	—	18	134
Sulphide .. .. .	10	3	3
White arsenic .. .. .	4,368	3,832	7,133
Arsenate of lead .. .. .	53	245	534
Other arsenates .. .. .	174	222	337
Germany—			
Ore, including antimony ore .. .. .	74	38	108
White arsenic .. .. .	4,355	3,404	2,620
Greece—			
White arsenic .. .. .	705	296	249
Sweden—			
Ore .. .. .	15,885	7,874	—

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Mexico—			
White arsenic ( <i>As content</i> ) ..	6,401	3,946	4,607
United States—			
Arsenate of lead .. .. .	798	531	267
Arsenate of lime .. .. .	958	1,131	1,177
China—			
Ore .. .. .	(a)	49	59
Arsenic .. .. .	(a)	17	26
Japan—			
White arsenic .. .. .	2,355	2,189	1,312
Turkey—			
Ore .. .. .	44	15	(a)

(a) Information not available.



## IMPORTS OF ARSENIC, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic .. .. .	17	75	12
White arsenic .. .. .	3,333	4,004	3,951
Other compounds .. .. .	182	129	88
Union of South Africa—			
Arsenate of sodium .. .. .	814	872	647
Canada—			
Sulphide .. .. .	5	50	12
White arsenic .. .. .	75	190	74
Arsenate of lead .. .. .	557	371	223
Other arsenates .. .. .	367	235	128
British India (total imports)—			
Arsenic and its oxides .. .. .	106	133	101
Hong Kong (total imports)—			
Arsenic .. .. .	6	44	5
Australia—			
White arsenic and compounds ..	734	416	418
New Zealand—			
White arsenic, etc. .. .. .	36	70	36
FOREIGN COUNTRIES			
Austria—			
Sulphide .. .. .	6	8	3
Belgium-Luxemburg E.U.—			
Ore .. .. .	4,405	3,226	2,169
Sulphide .. .. .	7	2	3
Metallic arsenic .. .. .	8	29	12
White arsenic .. .. .	6	15	16
Bulgaria—			
White arsenic .. .. .	—	—	5
Czechoslovakia—			
Sulphide .. .. .	27	45	50
Metallic arsenic .. .. .	9	13	14
White arsenic .. .. .	160	71	76

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—			
Ore .. .. .	82	—	—
Sulphide .. .. .	2	2	20
Metallic arsenic .. .. .	22	16	24
White arsenic .. .. .	147	73	206
Arsenate of lead .. .. .	1	5	9
Germany—			
Ore .. .. .	5,945	—	—
White arsenic .. .. .	244	98	185
Italy—			
Metallic arsenic .. .. .	6	4	4
White arsenic .. .. .	495	505	516
Latvia—			
White arsenic .. .. .	5	4	14
Poland—			
Metallic arsenic .. .. .	3	3	2
White arsenic .. .. .	9	6	9
Sulphides .. .. .	11	6	8
Portugal—			
White arsenic .. .. .	6	10	19
Arsenates .. .. .	2	2	2
Roumania—			
White arsenic .. .. .	4	7	15
Spain—			
Arsenic .. .. .	25	2	10
Yugoslavia—			
Metallic and white arsenic .. .. .	8	5	4
Sulphide .. .. .	3	2	6
Algeria—			
White arsenic .. .. .	3	1	} (a)
Sulphide .. .. .	4	4	
Arsenates .. .. .	112	401	
Madagascar—			
Arsenates .. .. .	7	(a)	(a)
Tunis—			
Sulphide .. .. .	5	6	6
Arsenates .. .. .	1	32	1
United States—			
White arsenic .. .. .	6,956	6,145	10,079
Sulphide .. .. .	267	224	301

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
<b>FOREIGN COUNTRIES (Cont.)</b>			
Argentina—			
Sulphide .. .. .	4	5	2
White arsenic .. .. .	647	328	621
Compounds.. .. .	13	—	1
Chile—			
White arsenic, etc. .. .. .	3	1	(a)
Arsenate of lead .. .. .	21	40	31
Other arsenic compounds.. .. .	3	5	1
Colombia—			
Metallic arsenic .. .. .	1	(a)	(a)
White arsenic .. .. .	3	6	(a)
Peru—			
Arsenate of lead .. .. .	2	—	4
Arsenate of lime .. .. .	592	766	885
French Indo-China—			
Arsenic compounds .. .. .	2	2	8
Netherlands East Indies—			
Arsenate of lead .. .. .	761	382	624
Turkey—			
Arsenic compounds .. .. .	29	12	(a)

(a) Information not available.

## ASBESTOS

PRODUCTION OF ASBESTOS  
(Long tons)

Producing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Southern Rhodesia .. .. .	21,466	14,077	26,948
Swaziland .. .. .	—	4	—
Union of South Africa (b) .. .. .	11,480	7,844	15,185
Canada—			
Chrysotile .. .. .	141,470	(c) 112,902	(c) 147,153
<i>Crude</i> .. .. .	2,202	421	1,166
<i>Spinning fibre</i> .. .. .	10,115	5,361	} 73,754
<i>Shingle fibre</i> .. .. .	9,782	5,915	
<i>Paper fibre</i> .. .. .	33,260	29,191	} 66,479
<i>Waste, stucco or plaster</i> .. .. .	5,650	3,557	
<i>Refuse or shorts</i> .. .. .	74,024	65,356	
<i>Sand and gravel</i> .. .. .	6,437	3,101	5,754
Actinolite .. .. .	31	—	—
Cyprus .. .. .	1,138	1,520	3,494
India .. .. .	6	90	—
Australia .. .. .	122	130	279
Total .. .. .	176,000	137,000	193,000
<b>FOREIGN COUNTRIES.</b>			
Finland (Amphibole) .. .. .	572	800	(a)
France .. .. .	500	300	(a)
Greece .. .. .	10	8	(a)
Italy .. .. .	571	1,461	(a)
U.S.S.R. (Russia) .. .. .	63,653	(a)	(a)
United States (sales)—			
Amphibole .. .. .	331	} 3,178	4,237
Chrysotile .. .. .	2,551		
Argentina .. .. .	—	7	(a)
China .. .. .	160	(a)	(a)
Japan (estimated) .. .. .	1,000	1,000	1,000
“Manchoukuo” .. .. .	168	118	(a)
Turkey .. .. .	4	—	118
Total .. .. .	69,000	(a)	(a)
<b>WORLD'S TOTAL</b> .. .. .	<b>245,000</b>	<b>(a)</b>	<b>(a)</b>

(a) Information not available.

(b) Production is not available by kinds, but sales were as follows :—

	1931.	1932.	1933.
Amosite ..	1,863 long tons.	1,242 long tons.	2,765 long tons.
Blue ..	3,259 “ ”	2,647 “ ”	2,879 “ ”
Chrysotile	8,873 “ ”	6,888 “ ”	8,546 “ ”

(c) Sales and shipments.

## EXPORTS OF ASBESTOS

*(Domestic Produce)*

(Long tons)

Exporting Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Unmanufactured—			
Crude and fibre .. .. .	712	323	406
Waste, including asbestic .. .. .	58	47	92
Manufactured .. .. .	21,398	14,381	16,331
Southern Rhodesia—			
Unmanufactured .. .. .	25,007	12,385	26,887
Manufactured .. .. .	—	—	(£35)
Union of South Africa—			
Unmanufactured .. .. .	13,526	10,287	14,307
Manufactured (£ <i>South African</i> ) .. .. .	(£82)	(£6)	(£23)
Canada—			
Unmanufactured .. .. .	63,306	38,090	70,269
Sand and waste .. .. .	79,049	62,294	62,764
Manufactured .. .. .	(£24,071)	(£18,922)	(£16,196)
British Malaya (including re-exports)—			
Manufactured .. .. .	86	40	31
Cyprus—			
Unmanufactured .. .. .	3,571	1,600	4,567
Hong Kong (including re-exports)—			
Packing and manufactures .. .. .	(£842)	(£2,746)	(£3,156)
Australia—			
Packing (£ <i>Australian</i> ) .. .. .	(£1,684)	(£448)	(£1,150)
<b>FOREIGN COUNTRIES</b>			
Austria—			
Unmanufactured .. .. .	81	110	162
Spun and woven .. .. .	76	51	70
Paper and board .. .. .	130	110	120
Cement sheets .. .. .	25	7	24
Other manufactures .. .. .	9	10	33
Belgium-Luxemburg E.U.—			
Unmanufactured .. .. .	237	274	2,745
Spun and woven .. .. .	63	53	65
Paper and board .. .. .	339	310	616
Other manufactures .. .. .	22	8	12

EXPORTS OF ASBESTOS (*Cont.*)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Unmanufactured .. .. .	461	398	508
Spun and woven .. .. .	54	29	31
Paper and board .. .. .	541	187	232
Other manufactures .. .. .	102	43	20
France—			
Spun and woven .. .. .	245	179	184
Paper and board .. .. .	280	154	112
Germany—			
Unmanufactured .. .. .	553	283	234
Spun and woven .. .. .	1,131	676	528
Paper and board .. .. .	2,557	1,902	1,513
Other manufactures .. .. .	535	413	514
Hungary—			
Manufactured .. .. .	171	148	166
Italy—			
Unmanufactured .. .. .	141	898	1,209
Spun and woven .. .. .	149	65	65
Paper and board .. .. .	52	36	44
Cement products .. .. .	7,368	2,289	3,581
Other manufactures .. .. .	72	35	21
Netherlands .. .. .	5	6	4
Poland—			
Unmanufactured .. .. .	6	2	2
Manufactured .. .. .	54	19	41
Spain—			
Unmanufactured .. .. .	180	1	—
Manufactured .. .. .	76	49	75
Sweden—			
Unmanufactured .. .. .	2	3	26
Manufactured .. .. .	5	5	6
Switzerland (including mica)—			
Unmanufactured .. .. .	9	30	5
Manufactured .. .. .	293	135	169
U.S.S.R. (Russia) .. .. .	13,030	16,290	21,119
United States—			
Unmanufactured .. .. .	1,530	1,524	1,230
Spun and woven .. .. .	567	404	462
Paper and board .. .. .	567	262	392
Brake linings .. .. .	(£249,000)	(£198,000)	(£172,000)
Pipe covering and cement .. .. .	938	1,095	812
Roofing squares .. .. .	(£109,000)	(£17,000)	(£36,000)
Other manufactures .. .. .	1,068	578	749
Japan .. .. .	(£15,992)	(£20,078)	(£27,209)

## IMPORTS OF ASBESTOS

(Less Re-exports)

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Unmanufactured—			
Crude and fibre .. ..	18,104	16,761	24,093
Waste, including asbestic .. ..	1,329	461	272
Manufactured .. .. .	25,980	5,652	11,011
Irish Free state—			
Manufactured .. .. .	8,279	6,388	5,157
Kenya and Uganda—			
Manufactured .. .. .	482	274	381
Mauritius—			
Manufactured .. .. .	10	3	(a)
Seychelles—			
Cement sheets .. .. .	—	—	19
Southern Rhodesia (total imports)—			
Cement sheets (£ South African) ..	(£3,679)	(£66)	(£207)
Other manufactures ( do. ) ..	(£234)	(£385)	(£784)
South West Africa—			
Cement sheets (£ South Africa) ..	(£263)	(£39)	(£61)
Tanganyika—			
Manufactured .. .. .	132	73	118
Union of South Africa—			
Packing (£ South Africa) .. ..	(£17,831)	(£11,311)	(£19,226)
Cement Products ( do. ) ..	(£16,670)	(£5,422)	(£6,090)
Other manufactures ( do. ) ..	(£1,493)	(£960)	(£3,304)
Canada—			
Packing .. .. .	62	49	71
Other manufactures .. .. .	(£116,756)	(£105,578)	(£88,683)
Newfoundland (years ended June 30)—			
Asbestos .. .. .	(£495)	(£327)	(£662)
British India (total imports)—			
Packing .. .. .	(£27,600)	(£19,678)	(£17,345)
Other manufactures .. .. .	(£127,000)	(£73,359)	(£104,137)
British Malaya—			
Manufactured .. .. .	4,999	1,764	1,697
Hong Kong (total imports)—			
Manufactured .. .. .	(£6,076)	(£10,422)	(£8,200)

(a) Information not available.

## IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Australia—			
Crude .. .. .	1,200	—	2,676
Packing .. .. .	(£23,231)	(£17,358)	(£49,778)
New Zealand (£ New Zealand)—			
Sheets, slates and tiles .. .. .	(£13,893)	(£10,334)	(£6,922)
Packing, brake lining, etc. .. .. .	(£26,880)	(£27,537)	(£28,394)
Other manufactures .. .. .	(£434)	(£207)	(£272)
FOREIGN COUNTRIES			
Austria—			
Unmanufactured .. .. .	4,992	3,412	1,246
Spun and woven .. .. .	27	21	23
Paper and board .. .. .	12	8	19
Cement sheets .. .. .	43	34	4
Other manufactures .. .. .	37	28	25
Belgium-Luxemburg E.U.—			
Unmanufactured .. .. .	12,411	5,382	13,807
Spun and woven .. .. .	223	145	137
Paper and board .. .. .	104	54	54
Other manufactures .. .. .	10	10	9
Bulgaria—			
Unmanufactured .. .. .	8	5	4
Manufactured .. .. .	26	47	34
Czechoslovakia—			
Unmanufactured .. .. .	5,263	7,331	2,173
Spun and woven .. .. .	14	9	8
Paper and board .. .. .	34	13	13
Other manufactures .. .. .	61	40	18
Denmark—			
Unmanufactured .. .. .	693	724	707
Spun and woven .. .. .	10	9	10
Paper and board .. .. .	353	274	318
Estonia—			
Manufactured .. .. .	102	54	56
Finland (including mica) (c)—			
Unmanufactured .. .. .	61	42	67
Manufactured .. .. .	151	110	110
France—			
Unmanufactured .. .. .	(a)	(b) 6,583	14,127
Spun and woven .. .. .	98	130	97
Paper and board .. .. .	303	211	254

(a) Information not available.

(b) April-December only.

(c) Total imports.



## IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Germany—			
Unmanufactured .. .. .	9,653	7,462	12,414
Spun and woven .. .. .	31	20	24
Paper and board .. .. .	46	36	70
Paint and cement products .. .. .	158	30	36
Other manufactures .. .. .	95	61	100
Greece .. .. .	139	47	54
Hungary—			
Unmanufactured .. .. .	2,356	1,562	(a)
Manufactured .. .. .	158	93	126
Iceland—			
Manufactured .. .. .	20	12	(a)
Italy—			
Unmanufactured .. .. .	5,194	4,629	3,607
Spun and woven .. .. .	165	137	174
Paper and board .. .. .	202	172	194
Cement products .. .. .	103	67	31
Other manufactures .. .. .	27	10	19
Latvia—			
Unmanufactured .. .. .	49	69	46
Manufactured .. .. .	35	29	48
Lithuania .. .. .	79	10	80
Netherlands .. .. .	267	155	548
Norway .. .. .	978	769	958
Poland—			
Unmanufactured .. .. .	395	319	541
Board .. .. .	26	28	7
Other manufactures .. .. .	358	218	206
Portugal—			
Unmanufactured .. .. .	79	39	126
Manufactured .. .. .	57	39	57
Roumania—			
Unmanufactured .. .. .	64	64	100
Manufactured .. .. .	199	289	226
Spain—			
Unmanufactured .. .. .	3,225	4,067	5,964
Spun and woven .. .. .	95	71	76
Other manufactures .. .. .	203	162	144
Sweden—			
Unmanufactured .. .. .	953	1,174	1,044
Manufactured .. .. .	956	712	839

(a) Information not available.

## IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Switzerland (including mica)—			
Unmanufactured .. .. .	1,135	584	824
Manufactured .. .. .	642	665	727
U.S.S.R. (Russia) .. .. .	86	269	27
Yugoslavia—			
Unmanufactured .. .. .	1,281	457	339
Spun and woven .. .. .	86	31	33
Paper and board .. .. .	118	62	92
Other manufactures .. .. .	31	17	15
Canary Islands—			
Manufactured .. .. .	324	70	(a)
Egypt—			
Unmanufactured .. .. .	100	72	88
Paper and board .. .. .	83	112	67
Mexico—			
Unmanufactured .. .. .	400	272	349
Spun and woven .. .. .	45	5	296
Paper and board .. .. .	135	122	37
Panama .. .. .	17	(a)	(a)
United States—			
Unmanufactured —(total imports)			
(b)—			
Crude .. .. .	4,605	1,473	2,813
Mill fibre .. .. .	41,777	27,523	43,114
Stucco and other unmanufactured .. .. .	75,369	57,391	60,085
Manufactured .. .. .	1,145	151	74
Argentina—			
Spun and woven .. .. .	132	180	222
Other manufactures .. .. .	604	414	490
Bolivia—			
Manufactured .. .. .	2	(a)	(a)
Brazil (total imports)—			
Unmanufactured .. .. .	33	22	(a)
Manufactured .. .. .	369	280	(a)
Chile—			
Unmanufactured .. .. .	49	1	47
Manufactured .. .. .	363	56	146
Colombia—			
Unmanufactured .. .. .	36	13	(a)
Manufactured .. .. .	46	150	(a)

(a) Information not available.

(b) Re-exports of unmanufactured were 762, 820 and 13 long tons in 1931, 1932 and 1933 respectively.

IMPORTS OF ASBESTOS (*Cont.*)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Ecuador—			
Manufactured .. .. .	37	4	(a)
Venezuela—			
Unmanufactured .. .. .	4	8	} (a)
Cement products .. .. .	84	191	
Manufactured .. .. .	105	21	
China—			
Manufactured .. .. .	698	579	576
Iraq (years ended March 31 of the year following) .. .. .	2	979	272
Japan (total imports)—			
Unmanufactured .. .. .	7,127	7,502	13,546
Manufactured .. .. .	761	429	426
“Manchoukuo” .. .. .	(a)	423	582
Netherlands East Indies—			
Unmanufactured .. .. .	12	1	12
Cement sheet .. .. .	5,316	4,925	7,054
Philippine Islands .. .. .	£11,000	£7,000	(a)
Siam (total imports)—			
Cement sheets .. .. .	692	316	288

(a) Information not available.

## BARIUM MINERALS

### PRODUCTION OF BARIUM MINERALS

(Long tons)

Producing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Barytes, unground .. ..	24,507	35,713	39,943
Witherite, unground .. ..	7,356	6,258	5,111
Barytes and witherite—			
Ground, bleached .. ..	1,077	1,881	7,623
do. unbleached .. ..	12,640	12,787	13,943
Irish Free State .. ..	574	—	—
Canada (sales) .. ..	14	—	18
India .. ..	5,654	2,957	5,651
Australia .. ..	1,567	2,005	2,090
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	86	271	1,014
Belgium (b) .. ..	120	—	(a)
France .. ..	11,100	10,200	(a)
Germany—			
Bavaria .. ..	7,711	5,761	(a)
Prussia .. ..	157,947	100,553	141,199
Saxony .. ..	2,494	2,408	(a)
Italy .. ..	23,942	21,516	23,074
Portugal .. ..	79	—	—
Spain .. ..	8,404	(d) 8,612	(a)
Algeria .. ..	935	876	10
United States.. ..	188,330	119,261	130,716
Korea .. ..	5,266	6,465	(a)

NOTE.—3,875 tons of barytes were recorded as produced in U.S.S.R. (Russia) during the year ended September, 1928; later figures are not available.

(a) Information not available.

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

(d) In addition 40 cubic metres were produced in quarries.

## EXPORTS OF BARIUM MINERALS, ETC.\*

(Domestic Produce)

(Long tons)

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Unground barytes .. .. .	527	472	163
Ground barytes .. .. .	1,335	1,684	1,389
Blanc fixe .. .. .	387	535	287
Dioxide .. .. .	558	665	537
Barium compounds .. .. .	5,136	4,730	6,432
Irish Free State—			
Ground barytes .. .. .	510	—	—
FOREIGN COUNTRIES			
Austria—			
Barytes .. .. .	55	36	152
Carbonate and chloride .. .. .	8	1	2
Belgium-Luxemburg E.U.—			
Chloride .. .. .	4,829	3,946	4,997
Sulphate .. .. .	182	141	327
Sulphide .. .. .	8	21	168
Czechoslovakia—			
Barytes .. .. .	703	1,074	2,112
Chloride .. .. .	557	715	661
Sulphate .. .. .	476	226	186
Estonia—			
Barytes .. .. .	—	50	—
France—			
Barytes .. .. .	2,572	7,799	6,475
Witherite .. .. .	127	—	57
Carbonate .. .. .	463	438	122
Chlorate .. .. .	57	23	35
Chloride .. .. .	970	655	793
Nitrate and sulphide .. .. .	14	17	80
Sulphate .. .. .	132	150	112
Germany—			
Barytes and celestite .. .. .	203,344	150,226	161,693
Witherite and strontianite .. .. .	378	156	255
Carbonate .. .. .	4,500	2,750	2,827
Chloride .. .. .	1,986	2,011	2,074
Nitrate .. .. .	664	657	539
Sulphate .. .. .	5,956	5,795	5,144

\* For lithopone see "Zinc," page 405.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—			
Sulphate .. .. .	5,382	4,228	6,392
Chloride .. .. .	1	1	2
Oxides .. .. .	—	—	474
Latvia—			
Barytes .. .. .	57	76	53
Netherlands—			
Barytes .. .. .	265	31	35
Yugoslavia—			
Barytes .. .. .	—	310	402
Sulphate .. .. .	—	25	54
Algeria—			
Barytes .. .. .	1,285	1,417	(a)
Sulphate .. .. .	15	83	(a)
Korea—			
Barytes .. .. .	5,573	6,250	4,726

(a) Information not available.

## IMPORTS OF BARIUM MINERALS, ETC.\*

(Less Re-exports)

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Unground barytes .. ..	5,995	9,352	18,393
Ground barytes .. .. .	25,046	14,236	14,750
Blanc fixe .. .. .	1,985	1,078	1,048
Barium compounds .. ..	2,477	1,284	1,309
Irish Free State—			
Ground barytes, including blanc fixe .. .. .	164	329	428
Union of South Africa—			
Barytes .. .. .	221	150	408
Dioxide .. .. .	9	13	60
Canada—			
Barytes .. .. .	1,506	1,153	1,417
Blanc fixe .. .. .	713	416	247
Dioxide .. .. .	3	2	—
Trinidad and Tobago—			
Barytes .. .. .	8,948	6,732	11,305
British India (total imports)—			
Barytes .. .. .	4,530	2,173	2,914
Australia—			
Barytes .. .. .	46	21	—
FOREIGN COUNTRIES			
Austria—			
Barytes .. .. .	1,203	1,128	583
Carbonate .. .. .	147	144	154
Chloride .. .. .	592	1,261	1,072
Belgium-Luxemburg E.U.—			
Chloride .. .. .	110	41	177
Dioxide .. .. .	43	22	20
Sulphate .. .. .	915	1,232	1,132
Sulphide .. .. .	2	13	9
Czechoslovakia—			
Unground barytes .. ..	4,093	3,225	4,606
Ground barytes .. .. .	2,593	2,070	1,403
Carbonate .. .. .	179	193	188
Chloride .. .. .	5	2	—
Sulphate .. .. .	199	115	36

\* For lithopone see "Zinc," page 409.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Barytes .. .. .	22	15	—
Witherite .. .. .	279	319	326
Chloride .. .. .	66	55	65
Sulphate .. .. .	566	706	937
Estonia—			
Barytes, ground .. .. .	27	38	40
Sulphate .. .. .	10	1	4
Finland (total imports)—			
Barytes .. .. .	403	414	431
Witherite and magnesite .. .. .	490	518	586
Chloride .. .. .	73	30	75
France—			
Barytes .. .. .	27,209	31,619	29,117
Witherite .. .. .	125	149	310
Carbonate .. .. .	170	86	1
Chloride .. .. .	1,412	1,098	1,423
Nitrate .. .. .	37	65	41
Sulphate .. .. .	938	1,102	805
Germany—			
Barytes and celestite .. .. .	2,665	4,485	918
Witherite and strontianite .. .. .	660	999	1,352
Carbonate .. .. .	5	—	7
Chloride .. .. .	—	—	29
Sulphate .. .. .	12	4	15
Hungary—			
Ground barytes .. .. .	988	899	865
Sulphate .. .. .	90	83	97
Italy—			
Carbonate .. .. .	174	234	250
Chloride .. .. .	183	286	501
Oxide and dioxide .. .. .	75	21	43
Sulphate .. .. .	439	453	393
Sulphide .. .. .	2	6	—
Latvia—			
Barytes .. .. .	48	65	74
Chloride .. .. .	6	10	17
Sulphate .. .. .	4	8	9
Lithuania—			
Barytes and witherite .. .. .	24	60	81
Netherlands—			
Barytes .. .. .	30,875	8,252	14,589



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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Poland—			
Barytes .. .. .	1,415	1,655	2,079
Witherite .. .. .	—	31	32
Carbonate .. .. .	64	46	42
Chloride .. .. .	6	6	2
Oxide .. .. .	5	4	33
Sulphate .. .. .	144	166	191
Portugal—			
Sulphate .. .. .	650	548	587
Chloride .. .. .	2	44	30
Dioxide .. .. .	10	7	3
Roumania—			
Carbonate .. .. .	8	2	5
Chlorate .. .. .	10	10	—
Chloride .. .. .	42	110	123
Sulphate .. .. .	30	55	40
Sweden—			
Barytes and witherite .. .. .	1,224	1,073	1,134
U.S.S.R. (Russia)—			
Barytes, witherite and salts .. .. .	31	13	33
Yugoslavia—			
Barytes and witherite .. .. .	14	2	—
Ground barytes .. .. .	443	187	33
Chloride .. .. .	356	267	89
Algeria —			
Barytes .. .. .	3	8	} (a)
Carbonate .. .. .	—	27	
Chloride .. .. .	78	53	
Sulphate .. .. .	22	18	
United States—			
Barytes .. .. .	65,250	40,855	44,605
Witherite .. .. .	2,100	2,393	2,633
Ground barytes .. .. .	1,653	1,423	2,350
Sulphate .. .. .	830	586	219
Barium compounds .. .. .	1,869	794	702
Argentina—			
Barytes .. .. .	3,261	3,077	3,216
Sulphate .. .. .	77	215	341
Barium compounds .. .. .	809	587	417
Chile—			
Sulphate .. .. .	1	2	—
Carbonate .. .. .	5	1	(a)
Chloride .. .. .	40	4	1
Oxides .. .. .	9	4	(a)

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Venezuela—			
Barytes .. .. .	1,023	10	(a)
Chloride .. .. .	8	—	(a)
Netherlands East Indies—			
Chloride .. .. .	15	13	14
Turkey—			
Barium compounds .. .. .	7	40	(a)

(a) Information not available.

## BISMUTH

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

Producing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
Canada—			
Metal and content of bullion ..	1,055	150	699
India—			
Ore .. .. .	42lb.	27lb.	80 lb.
Australia—			
Ore, etc. .. .. .	792	385	50
FOREIGN COUNTRIES			
Germany (Saxony)—			
Bismuth-cobalt-nickel ore ..	1,299	2,154	(a)
Spain—			
Ore .. .. .	2,244	650	(a)
Metal .. .. .	531	669	(a)
Mexico—			
Ore ( <i>Bi content</i> ) .. .. .	—	343	923
Bolivia (exports)—			
Ore, etc. ( <i>Bi content</i> ) .. .. .	523	46	37
Peru—			
Metal .. .. .	60	1,568	5,756
China—			
Ore .. .. .	2,620	(a)	(a)
Japan—			
Metal .. .. .	1,115	938	(a)

\* Bismuth is also recovered as a by-product in the United States and the United Kingdom.

(a) Information not available.

## EXPORTS OF BISMUTH, ETC.

*(Domestic Produce)**(Cwt.)*

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Bismuth .. .. .	768	462	83
Hong Kong (including re-exports)—			
Ore .. .. .	96	236	611
FOREIGN COUNTRIES			
France—			
Bismuth .. .. .	26	6	4
Bismuth salts .. .. .	478	591	789
Germany—			
Bismuth salts .. .. .	1,165	1,049	1,152
Italy—			
Bismuth salts .. .. .	6	—	4
Spain—			
Bismuth .. .. .	380	26	250
Argentina—			
Ore .. .. .	41	—	—
Bolivia—			
Ore, etc. ( <i>Bi content</i> ) .. .. .	523	46	37
Peru—			
Bismuth .. .. .	5,532	1,643	—

## IMPORTS OF BISMUTH, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	966	228	567
Bismuth .. .. .	3,953	1,732	4,169
Canada—			
Bismuth .. .. .	1	—	2
Bismuth salts .. .. .	(£5,617)	(5,319)	(£5,600)
Hong Kong (total imports)—			
Ore .. .. .	715	193	165
Australia—			
Bismuth salts .. .. .	64	25	22
New Zealand—			
Bismuth salts (£ New Zealand) ..	(£2,427)	(£3,577)	(£2,972)
FOREIGN COUNTRIES			
Estonia—			
Bismuth salts .. .. .	7	10	9
France—			
Bismuth .. .. .	1,100	1,870	1,758
Bismuth salts .. .. .	—	—	10
Germany—			
Bismuth salts .. .. .	24	33	6
Italy—			
Bismuth salts .. .. .	110	132	144
Latvia—			
Bismuth salts .. .. .	34	14	18
Poland—			
Bismuth .. .. .	8	10	67
Bismuth salts .. .. .	161	104	157
Portugal—			
Bismuth salts .. .. .	37	31	38
Roumania—			
Bismuth salts .. .. .	73	39	84
Spain—			
Bismuth salts .. .. .	162	63	98
U.S.S.R. (Russia)—			
Bismuth .. .. .	37,046	3,071	140
Algeria—			
Bismuth salts .. .. .	22	4	(a)

(a) Information not available.

IMPORTS OF BISMUTH, ETC. (*Cont.*)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Mexico—			
Bismuth .. .. .	2	3	3
United States—			
Bismuth .. .. .	69	256	255
Bismuth salts .. .. .	8	28	—
Argentina—			
Bismuth .. .. .	57	57	81
Bismuth salts .. .. .	158	143	233
Chile—			
Bismuth salts .. .. .	18	19	(a)
Peru—			
Bismuth salts .. .. .	13	14	22
Turkey—			
Bismuth .. .. .	6	2	(a)
Bismuth salts .. .. .	29	28	(a)

(a) Information not available.

## BORATES

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### PRODUCTION OF CRUDE BORATES

(Long tons)

Producing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES			
Germany—			
Boracite .. .. .	10	—	(a)
Italy—			
Boric acid .. .. .	4,943	5,383	5,356
United States—			
Borates .. .. .	159,420	162,424	167,899
Argentina—			
Borate of calcium .. .. .	795	879	(a)
Tibet (b)—			
Borax .. .. .	476	216	366
Turkey—			
Borates .. .. .	6,398	4,807	7,434

(a) Information not available.

(b) Imports into India from Tibet.

## EXPORTS OF BORATES

*(Domestic Produce)*

(Long tons)

Exporting Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Borates .. .. .	6	13	19
Borax .. .. .	1,849	2,347	1,696
Boric acid .. .. .	526	641	589
British India—			
Borax .. .. .	48	47	36
Hong Kong (including re-exports)—			
Borax .. .. .	149	233	288
<b>FOREIGN COUNTRIES</b>			
Austria—			
Borax .. .. .	64	71	14
Boric acid .. .. .	6	13	5
Belgium-Luxemburg E.U.—			
Borax .. .. .	138	107	674
Boric acid .. .. .	23	—	—
Czechoslovakia—			
Borax and boric acid .. .. .	5	9	1
France—			
Borax and borates .. .. .	625	976	645
Perborate of sodium .. .. .	457	306	207
Boric acid .. .. .	1,642	1,072	754
Germany—			
Borax and boric acid .. .. .	1,428	1,545	1,416
Italy—			
Borax .. .. .	1,688	1,486	1,315
Boric acid .. .. .	1,818	1,492	1,761
Netherlands—			
Borax .. .. .	1,268	889	773
Sweden—			
Borax and boric acid .. .. .	10	3	2
United States—			
Crude borates and borax .. .. .	77,623	80,036	78,283
Boric acid .. .. .	1,885	1,496	2,415
Argentina—			
Borate of calcium .. .. .	52	59	33



EXPORTS OF BORATES (*Cont.*)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Borate of calcium .. .. .	5	—	—
Tibet ( <i>c</i> )—			
Borax .. .. .	476	216	366
Turkey—			
Borates .. .. .	( <i>b</i> )	( <i>b</i> )	( <i>b</i> )

(*a*) Information not available.

(*b*) Not recorded separately. Imports into the United Kingdom and France from Turkey were as follows :—

	(Long tons)		
	1931	1932	1933
United Kingdom .. .. .	1,150	2,500	2,950
France .. .. .	2,879	2,699	( <i>a</i> )
(c) Imports into India from Tibet.			

## IMPORTS OF BORATES

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Borates .. .. .	7,572	10,208	11,984
Borax .. .. .	11,807	8,773	7,957
Boric acid .. .. .	2,186	968	1,315
Irish Free State—			
Borax .. .. .	9	13	59
Boric acid .. .. .	25	21	37
Southern Rhodesia—			
Borax .. .. .	32	37	70
Boric acid .. .. .	1	2	2
Union of South Africa—			
Borax .. .. .	298	265	269
Boric acid .. .. .	96	96	114
Canada—			
Borax .. .. .	1,941	2,389	2,075
Boric acid .. .. .	422	285	380
British India (total imports)—			
Borax .. .. .	1,388	1,676	1,408
Hong Kong (total imports)—			
Borax .. .. .	357	367	483
Australia—			
Borax .. .. .	756	1,122	1,275
Boric acid .. .. .	232	338	425
New Zealand—			
Borax .. .. .	263	194	184
Boric acid .. .. .	58	52	55
FOREIGN COUNTRIES			
Austria—			
Borax .. .. .	511	326	321
Boric acid .. .. .	8	16	14
Belgium-Luxemburg E.U.—			
Borax .. .. .	1,426	1,588	2,341
Boric acid .. .. .	182	172	217
Bulgaria—			
Borax and boric acid .. .. .	45	39	55

IMPORTS OF BORATES (*Cont.*)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Borax .. .. .	2,397	1,562	1,556
Boric acid .. .. .	187	223	97
Denmark—			
Borates .. .. .	143	63	122
Borax and boric acid .. .. .	148	92	131
Estonia—			
Borax and boric acid .. .. .	36	25	17
Finland (total imports)—			
Borax .. .. .	102	148	177
Boric acid .. .. .	21	26	30
France—			
Borax and borates .. .. .	9,258	8,192	11,982
Perborate of sodium .. .. .	42	30	60
Boric acid .. .. .	517	498	654
Germany—			
Borates .. .. .	18,857	28,948	16,973
Borax and boric acid .. .. .	7,706	6,965	7,136
Hungary—			
Borax and borates .. .. .	432	273	55
Boric acid .. .. .	21	58	133
Italy—			
Borax .. .. .	24	5	7
Boric acid .. .. .	2	2	2
Latvia—			
Boron minerals .. .. .	8	13	13
Borax and boric acid .. .. .	28	21	30
Perborate of sodium .. .. .	15	18	24
Lithuania—			
Borax and boric acid .. .. .	9	19	16
Netherlands—			
Borax .. .. .	2,220	1,494	2,207
Norway—			
Borax .. .. .	77	110	147
Boric acid .. .. .	30	27	42
Poland—			
Boron minerals .. .. .	411	345	608
Borax .. .. .	409	291	82
Boric acid .. .. .	2	3	2
Portugal—			
Borates .. .. .	296	340	505
Boric acid .. .. .	26	43	45

## IMPORTS OF BORATES (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Roumania—			
Borax .. .. .	89	118	206
Boric acid .. .. .	28	31	47
Spain—			
Boric acid .. .. .	66	46	27
Borates .. .. .	456	452	468
Sweden—			
Borax .. .. .	671	574	647
Boric acid .. .. .	113	90	134
Switzerland—			
Borax .. .. .	855	465	680
U.S.S.R. (Russia)—			
Borates .. .. .	4,206	1,707	1,980
Yugoslavia—			
Borax .. .. .	350	145	117
Boric acid .. .. .	11	20	14
Algeria—			
Borax .. .. .	10	—	(a)
Boric acid .. .. .	9	8	(a)
Canary Islands—			
Boric acid .. .. .	6	1	(a)
Egypt—			
Borax .. .. .	43	60	50
Boric acid .. .. .	19	24	20
Tunis—			
Borax .. .. .	5	3	10
Boric acid .. .. .	3	2	3
Mexico—			
Borax .. .. .	217	—	321
United States—			
Borates .. .. .	509	—	—
Borax .. .. .	1	—	5
Boric acid .. .. .	47	13	3
Argentina—			
Borax .. .. .	99	70	21
Boric acid .. .. .	25	10	12
Chile—			
Borates .. .. .	54	90	23
Boric acid .. .. .	9	9	3
Colombia—			
Borax .. .. .	9	24	(a)
Boric acid .. .. .	12	19	(a)

(a) Information not available.

IMPORTS OF BORATES (*Cont.*)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Ecuador—			
Borax .. .. .	3	4	(a)
Boric acid .. .. .	5	2	(a)
Peru—			
Borax .. .. .	7	13	12
Boric acid .. .. .	20	18	18
Uruguay—			
Borax .. .. .	25	21	—
Venezuela—			
Borax .. .. .	21	3	(a)
Boric acid .. .. .	12	17	(a)
China—			
Borax .. .. .	1,162	945	1,191
Boric acid .. .. .	146	163	208
French Indo-China—			
Borax .. .. .	219	140	148
Boric acid .. .. .	3	4	3
Japan (total imports)—			
Borax .. .. .	6,791	8,756	7,889
Boric acid .. .. .	910	981	194
Netherlands East Indies—			
Borax .. .. .	36	42	43
Syria and Lebanon—			
Boric acid .. .. .	2	1	7

(a) Information not available.

**CADMIUM**

PRODUCTION OF CADMIUM  
(Lb. avdp.)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Canada .. .. .	323,139	122,822	(c) 246,041
Australia .. . . .	445,158	354,620	357,313
<b>FOREIGN COUNTRIES</b>			
Belgium (exports) .. .. .	6,400	51,400	183,400
France .. .. .	181,167	274,451	355,000
Italy .. .. .	17,600	13,752	15,700
United States—			
Metal .. .. .	1,020,535	799,501	2,276,933
Compounds (metal content)	337,200	259,800	401,400
Mexico (b) .. . . .	70,175	189,981	2,848,079

Cadmium is also produced in Germany, U.S.S.R. (Russia), Norway, Poland, Sweden and South West Africa, but statistics are not available.

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

(c) Excluding cadmium sponge produced at Flinn Flonn.

**EXPORTS OF CADMIUM, ETC.**

(Domestic Produce)

(Lb. avdp.)

Exporting Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Australia .. .. .	135,296	254,016	644,896
<b>FOREIGN COUNTRIES</b>			
Belgium-Luxemburg E.U. ..	6,400	51,400	183,400
France .. .. .	128,300	50,500	85,100
Poland .. .. .	249,800	154,100	35,100
Mexico (b) .. . . .	70,175	189,981	2,848,079

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

## IMPORTS OF CADMIUM, ETC.

*(Less Re-exports)*

(Lb. avdp.)

Importing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. ..	288,876	219,635	446,210
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U. ..	20,100	12,600	12,800
France.. .. .	256,200	134,500	109,800
Italy (cadmium salts) ..	200	900	2,000
Poland .. .. .	3,700	1,500	4,000
U.S.S.R. (Russia) .. ..	(a)	(a)	77,200
United States.. .. .	271	—	108,861
Argentina (cadmium salts) ..	348	924	1,396
Chile (cadmium salts) ..	97	42	15
Colombia .. .. .	5	(a)	(a)
Peru (cadmium salts) ..	2	—	—
Turkey (including cadmium salts) .. .. .	168	97	(a)

*(a)* Information not available.

## CHINA CLAY

### PRODUCTION OF CHINA CLAY

(Long tons)

Producing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	570,524	508,850	596,609
India .. .. .	23,365	13,486	21,935
Unfederated Malay States ..	396	186	36
Australia .. .. .	6,188	5,110	8,477
<b>FOREIGN COUNTRIES</b>			
Bulgaria .. .. .	1,360	2,791	(a)
Belgium (e) .. .. .	18,031	9,566	(a)
Czechoslovakia (estimated) ..	400,000	350,000	350,000
Denmark—			
Crude .. .. .	35,200	29,300	34,300
Washed and pressed .. .. .	8,100	8,500	8,600
Dried .. .. .	1,700	800	700
France .. .. .	137,100	(a)	(a)
Germany—			
Bavaria .. .. .	327,520	373,917	(a)
Prussia .. .. .	10,797	8,352	11,961
Saxony—			
Crude .. .. .	39,666	106,706	(a)
Washed .. .. .	35,618	27,640	(a)
Italy—			
Crude .. .. .	23,023	30,203	(a)
Washed and ground (c) .. ..	4,500	8,206	(a)
Kaolinic earth .. .. .	900	800	(a)
Portugal .. .. .	6,513	6,763	9,416
Roumania (d) .. .. .	4,854	8,128	(a)
Spain (g) .. .. .	900	1,152	(a)
Sweden .. .. .	1,497	1,389	(a)
Algeria .. .. .	(a)	2,975	(a)
United States (f) .. .. .	395,800	325,843	(a)



PRODUCTION OF CHINA CLAY (*Cont.*)

Producing Country	1931	1932	1933
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
China .. .. .	772,000	(a)	(a)
Japan (estimated) .. ..	400,000	400,000	400,000
Korea .. .. .	4,700	11,821	(a)
Netherlands East Indies ..	202	120	229

NOTE.—77,585 long tons of china clay were recorded as produced in U.S.S.R. (Russia) during the year ended September, 1928—later figures are not available. Austria also produces china clay.

(a) Information not available.

(c) Derived from crude and stocks.

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

(e) "Eurite" and kaolin.

(f) Sales of china clay and paper clay.

(g) 74,930 and 3,940 cubic metres of kaolinic sand were also produced in quarries during 1931 and 1932 respectively.

## EXPORTS OF CHINA CLAY

*(Domestic Produce)*

(Long tons)

Exporting Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. ..	414,362	348,643	414,539
British Malaya (c) .. ..	273	123	16
FOREIGN COUNTRIES			
Austria .. .. .	14,025	11,919	16,482
Czechoslovakia .. ..	218,935	163,616	153,214
Denmark .. .. .	6,423	5,610	5,353
France .. .. .	9,820	8,555	4,708
Germany .. .. .	52,549	39,674	41,746
Italy .. .. .	61	721	82
Poland .. .. .	21	5	16
Portugal .. .. .	1,404	523	1,319
Spain .. .. .	2,625	431	268
Sweden .. .. .	1	28	6
U.S.S.R. (Russia) .. ..	14,970	11,671	15,138
Yugoslavia .. .. .	157	—	—
Algeria .. .. .	1,154	2,197	(a)

(c) Including re-exports.

## IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	332	292	412
Union of South Africa (b) ..	180	77	116
Canada .. .. .	16,381	15,458	22,726
Newfoundland (c) .. ..	4,103	—	—
British India (total imports)	20,708	19,537	19,336
British Malaya (total imports)	18	17	105
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	9,339	2,966	3,020
Czechoslovakia .. .. .	4,031	2,895	3,139
Denmark—			
Crude .. .. .	1,718	509	545
Washed .. .. .	3,610	4,344	4,657
Estonia .. .. .	2,453	1,625	2,009
Finland (total imports) ..	13,040	10,511	17,304
France .. .. .	70,288	55,668	70,174
Germany .. .. .	228,906	182,790	166,717
Italy .. .. .	42,221	35,291	44,390
Latvia .. .. .	1,600	1,439	3,419
Norway .. .. .	(a)	17,650	14,699
Poland .. .. .	17,789	16,084	21,162
Portugal .. .. .	126	119	144
Spain .. .. .	18,983	14,760	15,808
Sweden .. .. .	26,299	23,957	27,706
Yugoslavia .. .. .	3,742	3,572	3,268
United States .. .. .	135,210	89,086	103,732
Argentina .. .. .	2,518	2,422	1,956
Chile .. .. .	29	35	29
Colombia .. .. .	117	12	(a)
French Indo-China .. ..	255	455	573
Netherlands East Indies ..	638	809	1,041

(a) Information not available.

(b) Including Cornish or china stone.

(c) Years ended June 30 of year stated. Imported for paper manufacture.

## CHROME ORE AND CHROMIUM

### PRODUCTION OF CHROME ORE

(Long tons)

Producing Country	1931	1932	1933	Estimated Cr <sub>2</sub> O <sub>3</sub> content*		
				1931	1932	1933
BRITISH EMPIRE						
Southern Rhodesia ..	80,334	15,445	34,493	39,400	7,600	16,900
Union of South Africa	22,966	19,065	33,541	9,912	8,238	14,953
Cyprus (c) .. ..	200	1,000	(a)	100	500	(a)
Canada .. ..	—	70	27	—	(a)	(a)
India .. ..	19,913	17,865	15,526	11,100	7,900	(a)
Australia .. ..	26	97	891	(a)	(a)	(a)
Total .. ..	123,000	54,000	85,000			
FOREIGN COUNTRIES						
Greece .. ..	5,545	1,530	(a)	2,100	600	(a)
Norway .. ..	—	403	321	—	169	131
Yugoslavia .. ..	57,462	38,523	25,062	30,000	19,000	14,000
Cuba .. ..	11,882	500	21,837	4,000	200	7,000
United States .. ..	762	200	380	400	100	200
French Indo-China ..	2,736	—	—	1,395	—	—
Japan .. ..	9,573	12,295	14,800	3,800	4,900	5,900
Turkey .. ..	24,981	54,344	74,188	12,000	26,100	34,100
New Caledonia .. ..	72,979	68,332	49,100	38,000	36,000	26,000
Roumania .. ..	—	—	29	—	—	(a)
Total (b) .. ..	186,000	176,000	188,000			
WORLD'S TOTAL (b)	309,000	230,000	273,000			

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

(a) Information not available.

(b) Excluding U.S.S.R. (Russia)—figures for which are not available.

(c) Estimated.

## EXPORTS OF CHROME ORE, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Chromates of potash .. .. .	886	737	785
Chromates of soda .. .. .	1,265	1,004	1,183
Southern Rhodesia—			
Ore .. .. .	86,741	34,827	31,688
Union of South Africa—			
Ore .. .. .	20,388	20,288	26,262
British India (b)—			
Ore .. .. .	7,708	20,640	13,410
Cyprus—			
Ore .. .. .	3	—	—
FOREIGN COUNTRIES			
Austria—			
Chrome alum .. .. .	116	163	28
Belgium-Luxemburg E.U.—			
Chromates of potash and soda ..	208	536	541
France—			
Ore .. .. .	153	74	209
Ferro-chrome .. .. .	375	671	1,226
Chromates of potash and soda ..	212	357	415
Other chromates .. .. .	8	3	9
Chrome alum .. .. .	17	28	42
Germany—			
Chromates of potash and soda, and oxides of chromium .. .. .	6,954	6,405	7,049
Greece—			
Ore .. .. .	1,018	1,085	13,496
Italy—			
Ferro-chrome .. .. .	260	15	—
Chrome alum .. .. .	9	4	5

*(a)* Information not available.*(b)* Excluding chrome ore mined in British India, but exported via the Portuguese port of Mormugao—1931, 5,535 tons—1932, 4,998 tons—1933 *(a)*.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Chromium compounds .. ..	6	13	7
Norway—			
Ore .. ..	(a)	(a)	49
Ferro-chrome .. ..	4,779	4,182	7,874
Sweden—			
Ore .. ..	1,031	215	6
Ferro-chrome .. ..	5,911	5,804	9,400
Switzerland—			
Ferro-chrome, including ferro-silicon .. ..	3,942	1,411	1,054
U.S.S.R. (Russia)—			
Ore .. ..	23,435	40,871	40,389
Chromates .. ..	1,919	1,826	2,554
Yugoslavia—			
Ore .. ..	28,828	19,804	18,855
Cuba—			
Ore .. ..	5,812	—	15,576
United States—			
Chromates of soda .. ..	1,968	2,758	4,331
French Indo-China—			
Ore .. ..	2,101	1,078	—
Turkey—			
Ore .. ..	24,981	54,344	(a)
New Caledonia—			
Ore .. ..	37,669	14,009	24,176

(a) Information not available.

## IMPORTS OF CHROME ORE, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore .. .. .	12,727	20,638	28,508
Chromates of potash .. .. .	81	88	32
Chromates of soda .. .. .	1,484	977	1,675
Canada—			
Bichromate of potash .. .. .	58	58	51
Bichromate of soda .. .. .	719	979	830
British India (total imports)—			
Bichromate of potash .. .. .	276	300	177
Bichromate of soda .. .. .	461	669	619
Australia—			
Ore .. .. .	—	—	5
Bichromate of potash .. .. .	11	58	49
<b>FOREIGN COUNTRIES</b>			
Austria—			
Chrome alum and sulphate .. .. .	49	17	10
Chromates of potash and soda .. .. .	294	296	900
Belgium-Luxemburg E.U.—			
Chromates of potash and soda .. .. .	450	471	740
Bulgaria—			
Chromates of potash .. .. .	29	29	34
Czechoslovakia—			
Ore .. .. .	713	1,916	1,751
Chromates of potash and soda .. .. .	26	31	1
Denmark—			
Chromates of potash and soda .. .. .	72	124	193
Estonia—			
Chromates .. .. .	10	47	37
Finland (total imports)—			
Ferro-chrome .. .. .	5	4	9
Chromates of potash and soda .. .. .	86	121	160
Chrome alum and sulphate .. .. .	52	81	105
France—			
Ore .. .. .	12,570	13,187	20,187
Ferro-chrome .. .. .	732	1,097	655
Chromates of potash and soda .. .. .	2,063	1,699	3,151
Other chromates .. .. .	104	60	91
Chrome alum .. .. .	409	280	609

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Germany—			
Ore .. .. .	27,095	41,979	46,951
Chromates of potash and soda, and oxides of chromium ..	828	385	1,179
Hungary—			
Chromates of potash, soda and ammonia.. .. .	356	633	541
Italy—			
Ferro-chrome .. .. .	234	240	498
Chromates of potash, soda and ammonia.. .. .	165	168	34
Chrome alum .. .. .	92	39	16
Latvia—			
Chrome alum .. .. .	49	82	60
Chromates of potash and soda ..	14	40	50
Netherlands—			
Chromium compounds .. .. .	985	958	973
Norway—			
Ore .. .. .	9,061	10,878	17,930
Poland—			
Ore .. .. .	206	412	1,383
Ferro-chrome .. .. .	162	129	297
Chrome alum .. .. .	16	1	1
Chromates .. .. .	667	577	579
Portugal—			
Chromates of potash and soda ..	42	69	71
Chrome alum .. . . .	24	21	44
Roumania—			
Chrome alum .. .. .	220	274	238
Chromium compounds .. .. .	264	470	340
Spain—			
Chromates .. .. .	868	849	1,001
Sweden—			
Ore .. .. .	15,964	9,383	38,049
Ferro-chrome .. .. .	421	151	564
Chrome alum .. .. .	590	534	479
Chromates .. .. .	223	267	279
Switzerland—			
Ore ( <i>estimated</i> ) .. .. .	2,700	—	—
Ferro-chrome and ferro-silicon	1,595	1,195	1,555
U.S.S.R. (Russia)—			
Ferro-chrome .. .. .	4,088	3,890	9,469
Chromates .. .. .	2	—	—



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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Yugoslavia—			
Ore .. .. .	—	1	302
Chromates of potash and soda ..	30	125	67
Chrome alum .. .. .	140	117	161
Algeria—			
Ore .. .. .	9	—	(a)
Chromates .. .. .	3	7	(a)
Egypt—			
Chromates of potash and soda ..	306	284	355
United States—			
Ore .. .. .	212,528	89,143	116,511
Metal and ferro-chrome ..	95	230	99
Argentina—			
Bichromate of potash .. ..	98	66	123
Bichromate of soda .. ..	161	223	243
Chrome alum .. .. .	38	128	133
Chile—			
Bichromate of potash .. ..	36	60	39
Peru—			
Chromium compounds .. ..	44	79	88
China—			
Bichromate of potash .. ..	(a)	186	272
Bichromate of soda .. ..	(a)	69	266
French Indo-China—			
Chromates of potash and soda ..	44	1	8
Japan (total imports)—			
Bichromate of potash .. ..	160	104	157
Bichromate of soda .. ..	355	160	138
Turkey—			
Chromium compounds .. ..	10	50	(a)

(a) Information not available.

## COAL, COKE AND BY-PRODUCTS

### PRODUCTION OF COAL

*(Including Brown Coal and Lignite)*

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Anthracite .. .. .	5,829,175	6,616,972	7,053,043
Bituminous .. .. .	213,629,776	202,116,168	200,059,200
Irish Free State—			
Anthracite .. .. .	73,393	} 81,000	105,000
Semi-bituminous .. .. .	18,347		
Nigeria .. .. .	327,681	252,485	235,133
Southern Rhodesia .. .. .	577,983	431,183	476,340
Union of South Africa .. .. .	10,709,114	9,764,425	10,545,197
Canada—			
Bituminous .. .. .	7,911,929	6,887,749	7,114,709
Sub-bituminous .. .. .	420,842	500,805	494,772
Lignite .. .. .	2,598,668	3,092,618	3,002,196
British Borneo—			
State of North Borneo .. .. .	28,926	—	—
Sarawak .. .. .	18,213	—	—
Federated Malay States .. .. .	402,355	277,848	234,410
India—			
Gondwana Coalfields .. .. .	21,331,872	19,814,524	} 19,789,163
Tertiary Coalfields .. .. .	384,563	338,863	
Used by miners .. .. .	543,000	504,000	
Australia—			
Bituminous .. .. .	8,401,260	8,585,857	9,091,976
Lignite .. .. .	2,194,453	2,612,512	2,580,060
New Zealand—			
Bituminous .. .. .	979,636	928,234	843,845
Brown coal .. .. .	1,069,749	806,397	860,238
Lignite .. .. .	108,371	107,391	117,175
Total ..	278,000,000	264,000,000	263,000,000

(a) Information not available.

## PRODUCTION OF COAL (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES			
Albania—			
Lignite .. .. .	3,109	(a)	(a)
Austria—			
Bituminous .. .. .	224,541	217,819	235,150
Brown coal .. .. .	2,934,978	3,055,021	2,966,862
Belgium—			
Anthracite and semi-anthracite .. .. .	5,865,653	4,656,753	} 24,878,454
Bituminous .. .. .	20,749,689	16,428,442	
Bulgaria—			
Anthracite .. .. .	6,117	3,075	} 1,452,474
Bituminous .. .. .	78,161	93,758	
Lignite .. .. .	1,414,217	1,636,501	
Czechoslovakia—			
Bituminous .. .. .	12,895,773	10,787,907	10,471,774
Brown coal .. .. .	17,648,430	15,607,935	14,885,985
France—			
Saar .. .. .	11,187,485	10,273,195	10,394,373
Other districts—			
Bituminous (b) .. .. .	49,220,890	45,535,513	46,113,162
Lignite .. .. .	1,018,575	975,695	1,071,102
Germany—			
Bituminous .. .. .	116,766,357	103,086,309	108,184,638
Brown coal .. .. .	131,205,263	120,709,596	124,793,433
Greece—			
Lignite .. .. .	103,546	135,410	(a)
Hungary—			
Bituminous .. .. .	764,150	880,674	787,000
Brown coal .. .. .	5,650,352	5,395,064	} 5,815,000
Lignite .. .. .	364,451	442,726	
Italy—			
Anthracite .. .. .	15,331	47,004	66,644
Bituminous .. .. .	216,640	204,390	262,439
Brown coal .. .. .	358,730	370,107	376,712
Netherlands—			
Bituminous .. .. .	12,697,631	12,554,978	12,375,372
Brown coal .. .. .	120,269	122,115	95,511
Poland—			
Bituminous .. .. .	37,660,667	28,379,163	26,924,235
Brown coal .. .. .	38,800	32,900	32,865

(a) Information not available.

(b) Includes about 5,000,000 tons of anthracite each year.

## PRODUCTION OF COAL (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Portugal—			
Anthracite .. .. .	} 223,475	187,632	205,399
Bituminous .. .. .		49,753	19,426
Brown coal .. .. .		16,043	11,291
Roumania—			
Anthracite .. .. .	—	12,052	} 194,000
Bituminous .. .. .	282,005	172,992	
Lignite .. .. .	1,606,088	1,440,807	
Spain—			
Anthracite .. .. .	516,402	539,110	567,251
Bituminous .. .. .	6,462,526	6,206,607	5,353,784
Brown coal .. .. .	336,073	330,981	281,601
Spitzbergen and Bear Island	239,267	250,000	275,000
Sweden .. .. .	337,777	327,816	343,410
Switzerland (b) .. .. .	4,000	4,000	4,000
U.S.S.R. (Russia) .. .. .	55,737,000	63,299,000	70,000,000
Yugoslavia—			
Bituminous .. .. .	399,914	362,187	377,432
Brown coal .. .. .	3,467,492	3,030,987	2,806,202
Lignite .. .. .	1,040,425	1,010,853	905,274
Algeria—			
Bituminous .. .. .	25,186	24,584	29,900
Belgian Congo .. .. .	84,359	17,000	—
Morocco (French)—			
Anthracite .. .. .	5,574	14,724	26,848
Mozambique .. .. .	(a)	19,430	10,000
Greenland .. .. .	4,600	(a)	(a)
Mexico .. .. .	907,723	642,314	556,144
United States—			
Anthracite .. .. .	53,255,046	44,513,590	44,106,000
Bituminous and lignite ..	341,151,246	276,526,671	292,802,000
Brazil .. .. .	454,061	450,000	(a)
Chile .. .. .	1,090,100	1,068,100	1,516,283
Colombia (estimated) .. .. .	200,000	200,000	200,000
Peru .. .. .	138,332	26,500	29,500
Venezuela (c) .. .. .	3,000	(a)	(a)
China (d) .. .. .	19,857,000	19,990,000	(a)
Formosa .. .. .	1,399,093	1,334,000	(a)

(a) Information not available.

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

(c) Excluding production in government-owned mines.

(d) Of which about 3,000,000 tons are anthracite and 300,000 tons lignite.

## PRODUCTION OF COAL (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French Indo-China—			
Anthracite .. .. .	1,650,000	1,640,637	1,517,861
Bituminous .. .. .	28,000	22,328	25,508
Lignite .. .. .	23,000	23,091	22,644
Japan—			
Semi-anthracite and bitu- minous .. .. .	27,545,251	27,610,311	31,750,000
Brown coal .. .. .	115,881	106,818	107,000
Karafuto .. .. .	627,886	666,691	(a)
Korea .. .. .	904,000	1,086,755	(a)
“Manchoukuo” .. .. .	7,388,062	6,996,016	(a)
Netherlands East Indies .. .. .	1,382,223	1,033,639	1,025,390
Philippine Islands .. .. .	18,668	(a)	(a)
Turkey—			
Bituminous .. .. .	1,549,230	1,494,741	1,830,607
Lignite .. .. .	7,651	13,345	29,094
Total .. .. .	960,000,000	850,000,000	880,000,000
WORLD'S TOTAL .. .. .	1,240,000,000	1,110,000,000	1,140,000,000

(a) Information not available.

## PRODUCTION OF COKE

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Great Britain—			
Gas-works ( <i>b</i> ) .. ..	12,107,372	11,800,826	11,472,940
Coke-ovens—coke .. ..	8,470,709	8,480,196	8,778,643
breeze .. ..	550,252	573,280	671,873
Northern Ireland—			
Gas-works (estimated) ..	70,000	70,000	70,000
Irish Free State—			
Gas-works ( <i>b</i> ) .. ..	114,574	( <i>a</i> )	( <i>a</i> )
Southern Rhodesia .. ..	39,237	25,111	31,296
Union of South Africa (coke-ovens) .. ..	85,007	56,442	74,264
Canada—			
Gas-works—coke .. ..	256,298	246,979	} 1,601,895
breeze .. ..	29,701	26,710	
Coke-ovens—coke .. ..	1,236,179	1,057,924	
breeze .. ..	114,161	130,621	
Strait Settlements .. ..	12,429	10,745	7,736
India ( <i>c</i> )—			
Hard .. ..	55,484	61,021	( <i>a</i> )
Soft .. ..	724,176	760,228	( <i>a</i> )
Australia ( <i>e</i> )—			
Gas-works .. ..	703,868	627,799	612,623
Coke-ovens (New South Wales) .. ..	285,064	398,860	408,964
New Zealand ( <i>d</i> )—			
Gas-works .. ..	65,324	65,000	64,181
FOREIGN COUNTRIES			
Austria (gas-works) .. ..	547,087	577,367	573,526
Belgium—			
Metallurgical .. ..	4,799,827	4,340,399	4,473,080
Breeze .. ..	478,511	459,349	( <i>a</i> )
Bulgaria .. ..	( <i>a</i> )	( <i>a</i> )	5,000
Czechoslovakia—			
Gas-works .. ..	220,757	209,794	( <i>a</i> )
Coke-ovens .. ..	2,014,051	1,257,629	1,239,017
Denmark (gas-works) .. ..	276,000	265,000	283,000
Finland (gas-works) .. ..	55,849	55,058	55,291
France—			
Saar .. ..	1,910,142	1,658,303	1,849,834
Other districts—			
Metallurgical, etc. .. ..	7,982,888	5,746,000	6,565,000
Gas-works .. ..	2,198,983	2,067,000	2,074,000

## PRODUCTION OF COKE (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Germany—			
Coke-ovens .. .. .	23,617,836	20,008,373	20,386,361
Gas-works (d) .. .. .	4,267,000	4,197,000	(a)
Hungary—			
Brown-coal coke .. .. .	(a)	18,650	(a)
Metallurgical .. .. .	2,150	—	(a)
Gas-works .. .. .	159,000	157,000	(a)
Italy (metallurgical) .. .. .	728,575	702,862	718,437
Latvia .. .. .	12,105	10,945	10,532
Netherlands—			
Gas-works .. .. .	700,000	700,000	700,000
Coke-ovens .. .. .	2,696,079	2,479,862	2,568,162
Norway (gas-works) .. .. .	74,390	66,464	(a)
Poland—			
Coke-ovens .. .. .	1,333,223	1,074,000	1,152,227
Gas-works .. .. .	130,000	194,000	(a)
Portugal (estimated) (gas-works) .. .. .	30,000	30,000	30,000
Roumania .. .. .	46,866	37,847	(a)
Spain (incomplete figures)—			
Metallurgical .. .. .	495,169	435,337	358,742
Gas-works .. .. .	243,801	239,075	(a)
Sweden .. .. .	410,062	426,525	(a)
Switzerland—			
Gas-works .. .. .	382,507	407,053	(a)
U.S.S.R. (Russia) .. .. .	6,700,000	8,100,000	(a)
Algeria (gas-works) .. .. .	55,573	56,418	(a)
Tunis (gas-works) .. .. .	4,675	5,915	4,764
United States—			
Coke-ovens—			
Coke .. .. .	29,896,327	19,454,223	24,603,016
Breeze and screenings .. .. .	2,835,462	1,934,387	2,302,958
Argentina (gas-works) .. .. .	(a)	(a)	47,000
Chile .. .. .	48,000	45,000	51,000
Peru .. .. .	9,123	(a)	(a)
French Indo-China .. .. .	11,000	2,116	355
Japan—			
Coke-ovens .. .. .	1,170,000	1,291,000	1,762,000
Gas-works (d) .. .. .	876,000	838,000	(a)
Korea .. .. .	(a)	209,132	(a)
“Manchoukuo” .. .. .	449,765	471,660	(a)

(a) Information not available.

(b) Including coke breeze.

(c) Coke made at collieries only.

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

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

## PRODUCTION OF COAL BRIQUETTES

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Great Britain .. .. .	869,542	908,467	940,723
Australia (years ended June 30)	225,470	321,741	(a)
FOREIGN COUNTRIES			
Belgium .. .. .	1,821,136	1,296,190	1,362,132
Czechoslovakia—			
Coal briquettes .. .. .	281,268	400,153	390,572
Brown-coal briquettes .. .. .	206,127	198,813	196,500
France—			
Saar .. .. .	1,159	6,829	7,584
Other districts .. .. .	7,072,340	5,356,693	5,401,337
Germany—			
Coal briquettes .. .. .	5,104,651	4,671,939	4,452,021
Brown-coal briquettes .. .. .	31,910,150	29,343,900	29,669,975
Hungary—			
Coal briquettes .. .. .	} 185,246	99,132	(a)
Brown-coal briquettes .. .. .		{ 309,200	(a)
Italy—			
Brown-coal briquettes .. .. .	2,411	2,376	4,848
Netherlands—			
Coal briquettes .. .. .	1,193,469	1,152,437	1,085,135
Brown-coal briquettes .. .. .	40,246	43,330	35,078
Poland .. .. .	294,945	196,000	218,406
Portugal (b) .. .. .	(a)	(a)	716
Roumania .. .. .	13,549	42,340	125,707
Spain .. .. .	899,680	773,294	568,219
Yugoslavia .. .. .	30,288	29,379	22,960
Algeria .. .. .	72,654	70,000	(a)
Tunis .. .. .	69,888	64,707	55,757
United States .. .. .	623,496	420,182	473,598
French Indo-China .. .. .	132,000	95,868	72,063
“ Manchoukuo ” .. .. .	68,316	(a)	(a)
Netherlands East Indies .. .. .	17,143	6,857	32,428

(a) Information not available.

(b) From domestic coal only. The amount made from imported coal is not available.



PRODUCTION OF COAL BY-PRODUCTS\*  
(Long tons)

Producing Country and Description	1931	1932	1933
BRITISH EMPIRE			
Great Britain—			
Tar .. .. .	1,640,709	1,568,312	1,634,100
Pitch .. .. .	341,370	367,185	421,300
Ammonium salts expressed as sulphate (25½ % NH <sub>3</sub> ) (b) .. .. .	646,600	765,400	687,500
Benzol (refined)* .. .. .	112,000	110,000	134,000
Creosote (estimated) .. .. .	300,000	260,000	310,000
Irish Free State—			
Tar .. .. .	10,938	(a)	(a)
Ammonium sulphate .. .. .	1,962	2,000	(a)
Tar oil, creosote oil, &c. .. .. .	1,693	(a)	(a)
Union of South Africa—			
Tar * .. .. .	2,552	1,334	1,079
Ammonium sulphate .. .. .	583	228	10
Canada—			
Tar * .. .. .	114,215	103,471	} (a)
Pitch .. .. .	30,998	29,750	
Ammonium sulphate .. .. .	19,526	9,866	
Benzol .. .. .	12,501	9,325	
Ammonia liquor .. .. .	1,012	759	
Creosote, etc.* .. .. .	35,160	29,940	
Straits Settlements—			
Tar .. .. .	880	664	650
India (coke-ovens)—			
Ammonium sulphate .. .. .	12,133	9,474	9,885
Australia(e)—			
Tar * .. .. .	95,902	98,787	99,612
Ammonium sulphate .. .. .	10,993	11,703	7,605
New Zealand (c)—			
Tar (gas-works)* .. .. .	12,021	10,236	10,229
FOREIGN COUNTRIES			
Austria—			
Tar .. .. .	32,450	34,525	34,728
Ammonium sulphate .. .. .	(a)	(a)	6,393
Benzol .. .. .	(a)	6,775	6,905
Liquid Ammonia .. .. .	176	229	183
Ammonium chloride .. .. .	(a)	(a)	874

(a) Information not available.

(b) Actual ammonium sulphate production in long tons was:—  
1931, 514,000; 1932, 612,000; 1933, 562,000.

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

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

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

Producing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium—			
Tar .. .. .	164,294	155,908	150,000
Ammonium sulphate .. .. .	68,107	59,928	(a)
Benzol .. .. .	48,718	47,596	(a)
Pitch .. .. .	103,000	(a)	(a)
Naphthalene .. .. .	10,000	(a)	(a)
Creosote .. .. .	74,000	(a)	(a)
Czechoslovakia—			
Tar .. .. .	101,597	67,198	67,000
Pitch .. .. .	237	89	(a)
Ammonium sulphate .. .. .	28,499	17,251	(a)
Naphthalene .. .. .	858	796	3,000
Benzol .. .. .	25,903	16,405	15,000
Carbolic acid .. .. .	208	182	200
Denmark—			
Tar .. .. .	28,000	24,000	29,000
Finland—			
Gas-works—			
Tar .. .. .	2,577	2,303	2,230
Benzol .. .. .	135	188	170
Ammonia .. .. .	137	137	55
France—			
Tar .. .. .	469,033	487,132	529,500
Pitch .. .. .	90,212	(a)	(a)
Ammonium sulphate .. .. .	124,709	(a)	(a)
Benzol .. .. .	87,860	67,100	73,000
Naphthalene .. .. .	10,856	12,000	(a)
Saar—			
Tar .. .. .	107,836	92,974	100,777
Ammonium sulphate (coke-ovens)	22,107	19,088	20,423
Benzol .. .. .	28,780	26,525	29,331
Germany—			
Tar (coke-ovens) .. .. .	1,095,758	965,150	1,100,000
do. (gas-works) .. .. .	228,700	209,000	(a)
Pitch .. .. .	514,000	453,000	(a)
Ammonium sulphate and other ammoniacal salts .. .. .	330,223	281,217	(a)
Benzol .. .. .	243,347	207,225	251,000
Creosote .. .. .	172,000	(a)	(a)

(a) Information not available.

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

Producing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—			
Tar—coke-ovens .. .. .	29,537	28,090	26,152
gas-works .. .. .	57,000	57,000	(a)
Ammonium sulphate (b) .. .. .	9,458	8,701	9,529
Benzol (b) .. .. .	6,473	6,674	(a)
Naphthalene .. .. .	3,071	(a)	(a)
Latvia—			
Tar .. .. .	765	592	} (a)
Pitch .. .. .	25	23	
Tar oil .. .. .	117	98	
Benzol .. .. .	3	3	
Netherlands—			
Pitch .. .. .	48,000	54,000	54,000
Benzol (estimated) .. .. .	20,000	20,000	(a)
Tar (estimated) .. .. .	100,000	100,000	128,000
Creosote .. .. .	33,000	34,000	(a)
Norway—			
Tar (gas-works) .. .. .	5,119	5,079	(a)
Poland—			
Tar .. .. .	68,000	55,400	59,800
Pitch .. .. .	34,000	29,700	29,900
Ammonium sulphate .. .. .	(a)	(a)	16,100
Benzol .. .. .	21,800	18,000	19,200
Naphthalene .. .. .	1,600	1,100	2,141
Phenol and cresol .. .. .	(a)	(a)	960
Portugal (estimated)—			
Tar (gas-works) .. .. .	1,600	1,600	1,600
Roumania—			
Tar .. .. .	4,399	1,629	(a)
Ammonium sulphate .. .. .	20	20	(a)
Ammonia .. .. .	(a)	208	(a)
Spain (incomplete figures)—			
Tar .. .. .	35,323	33,210	(a)
Pitch .. .. .	4,818	3,229	(a)
Ammonium sulphate .. .. .	18,682	11,368	(a)
Benzol .. .. .	5,314	4,185	(a)
Naphthalene .. .. .	758	646	(a)
Creosote .. .. .	2,755	2,425	(a)

(a) Information not available.

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

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

Producing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Tar .. .. .	24,368	25,731	(a)
Pitch .. .. .	324	346	(a)
Ammonium sulphate .. .. .	4,570	4,364	(a)
Benzol .. .. .	2,287	2,565	(a)
Switzerland—			
Tar (gas-works) .. .. .	25,975	28,412	28,000
Algeria—			
Tar .. .. .	4,590	12,460	(a)
Tunis—			
Tar (gas-works) .. .. .	374	448	640
United States (coke-ovens only)—			
Tar* .. .. .	1,926,735	1,298,342	1,552,558
Pitch .. .. .	70,440	37,159	48,734
Sulphate equivalent of ammonia produced .. .. .	508,916	317,953	375,261
Benzol* .. .. .	49,241	35,262	57,397
Motor fuel* .. .. .	166,559	87,981	108,129
Naphthalene .. .. .	3,403	2,068	2,954
Toluol* .. .. .	38,670	29,298	37,710
Solvent naphtha* .. .. .	12,090	6,709	8,709
Creosote* .. .. .	64,649	28,348	21,529
Phenol* .. .. .	373	397	628
Japan—			
Ammonium sulphate .. .. .	30,000	31,094	30,000
Benzol .. .. .	12,358	20,000	(a)
Creosote .. .. .	22,000	(a)	(a)
“Manchoukuo”—			
Tar .. .. .	16,329	17,600	} (a)
Pitch .. .. .	15,897	(a)	
Ammonium sulphate .. .. .	5,353	5,309	
Naphthalene .. .. .	349	611	
Creosote .. .. .	7,494	(a)	
Benzol .. .. .	2,287	3,021	

\* The following conversion 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.

(a) Information not available.

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

(Domestic Produce)

(Long tons)

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Anthracite—			
small and sized .. .. .	2,373,143	2,830,827	3,085,775
large .. .. .	1,033,311	1,072,661	985,759
Bituminous—			
small and sized .. .. .	13,498,094	13,301,306	14,423,305
unscreened .. .. .	10,350,284	8,048,963	7,700,090
large .. .. .	15,494,908	13,645,044	12,872,997
bunkers .. .. .	14,609,545	14,209,237	13,457,081
Coke .. .. .	2,398,651	2,232,465	2,284,594
Manufactured fuel .. .. .	760,179	759,734	795,362
do. (bunkers) .. .. .	352	343	2,603
Tar and pitch .. .. .	368,555	351,900	316,265
Heavy coal-tar oils .. .. .	67,616	106,756	103,764
Naphthalene .. .. .	4,669	4,970	6,574
Anthracene .. .. .	1	15	17
Carbolic acid—			
Crystals .. .. .	743	539	388
Crude .. .. .	235	433	642
Cresylic acid .. .. .	4,356	4,372	5,230
Benzol .. .. .	1,587	2,555	1,501
Toluol .. .. .	19	88	385
Naphtha .. .. .	164	192	270
Irish Free State—			
Coke .. .. .	26,080	25,786	21,994
Tar and pitch .. .. .	144	178	58
Creosote, etc. .. .. .	—	942	10
Malta—			
Coal (bunkers on merchant ships)			
(c) .. .. .	75,767	53,682	59,710
Coke .. .. .	1,124	1,671	1,104
Kenya and Uganda—			
Coal (bunkers) (c) .. .. .	4,010	3,751	3,929
Nigeria—			
Coal .. .. .	24,813	28,016	23,958
Sierra Leone—			
Coal (bunkers) (c) .. .. .	25,674	21,477	19,093

\* For ammonium sulphate, etc., see Nitrogen Compounds, pages 249-252.

(c) Foreign coal (see imports).

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

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Southern Rhodesia—			
Coal .. .. .	204,823	176,636	191,865
Coke and patent fuel .. .. .	37,430	24,252	29,160
Union of South Africa—			
Coal .. .. .	936,742	643,068	750,179
do. (bunkers) .. .. .	907,387	670,758	814,373
Coke .. .. .	14,229	10,503	20,746
Canada—			
Coal .. .. .	300,268	241,333	220,950
Lignite .. .. .	21,028	13,566	10,508
Coke .. .. .	33,070	23,203	19,263
Tar and pitch .. .. .	14,769	15,475	43,657
Creosote oil .. .. .	2,745	1,308	1,540
West Indies—			
Barbados—			
Coal (bunkers) (c) .. .. .	7,148	1,395	(a)
St. Lucia—			
Coal (bunkers) (c) .. .. .	16,248	21,898	25,179
Trinidad and Tobago—			
Coal (bunkers) (c) .. .. .	25,765	31,649	37,319
Aden—			
Coal .. .. .	112	15	—
British Borneo—			
Brunei—			
Coal .. .. .	57	168	78
Sarawak—			
Coal .. .. .	1,328	—	—
Coke .. .. .	5	7	16
State of North Borneo—			
Coal .. .. .	20,595	11,785	4,531
British India—			
Coal .. .. .	438,963	517,529	425,064
do. (bunkers) .. .. .	(b)468,316	590,332	507,760
Coke .. .. .	2,286	1,954	1,112
British Malaya (including re-exports)			
Coal .. .. .	4,223	2,725	3,208
do. (bunkers) .. .. .	363,578	379,018	352,459
Coke .. .. .	955	777	951
Tar .. .. .	182	235	254

(a) Information not available.

(b) July to December only.

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

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Ceylon—			
Coal (bunkers) (c) .. .. .	325,152	214,014	217,860
Hong Kong (including re-exports)—			
Anthracite .. .. .	14,625	1,004	8,936
Bituminous .. .. .	181,030	159,524	135,885
Coke .. .. .	4,449	3,527	1,642
Briquettes .. .. .	12	12	5
Australia—			
Coal .. .. .	370,728	297,679	292,691
do. (bunkers) (e) .. .. .	509,303	506,140	562,442
Coke .. .. .	878	1,684	1,543
Tar and pitch .. .. .	921	399	217
New Zealand—			
Coal .. .. .	5,134	2,021	362
do. (bunkers) .. .. .	43,200	34,125	33,769
Coke .. .. .	3	2	7
Tar .. .. .	178	51	132
FOREIGN COUNTRIES			
Austria—			
Coal .. .. .	964	222	53
Brown coal .. .. .	2,990	942	574
Coke .. .. .	51,595	12,590	4,435
Briquettes .. .. .	158	92	3
Tar and pitch .. .. .	11,828	15,359	13,069
Tar oils .. .. .	3,976	6,181	4,663
Naphthalene .. .. .	652	543	531
Carbolic acid .. .. .	13	5	5
Carbolineum, creolin, etc. .. .. .	27	12	8
Belgium-Luxemburg E.U.—			
Coal .. .. .	4,524,289	3,177,734	3,310,787
do. (bunkers) .. .. .	857,190	257,333	220,137
Brown coal .. .. .	368	882	993
Coke .. .. .	848,926	966,230	899,760
Briquettes .. .. .	747,113	416,540	356,486
do. (bunkers) .. .. .	178,000	140,290	109,263
Anthracene .. .. .	443	508	149
Tar and pitch .. .. .	54,418	62,427	56,283
Naphthalene .. .. .	7,666	7,350	9,489
Distillates .. .. .	86,879	87,020	74,343

(c) Foreign coal (see imports).

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

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Bulgaria—			
Coal .. .. .	1,279	681	1,152
Czechoslovakia—			
Coal .. .. .	1,626,697	1,346,183	1,347,297
Brown coal .. .. .	1,929,421	1,509,069	1,603,845
Coke .. .. .	396,037	272,164	264,051
Briquettes .. .. .	84,005	80,401	78,503
Tar and pitch .. .. .	39,550	38,362	1,943
Benzol, etc. .. .. .	14,871	4,382	3,308
Crude naphthalene .. .. .	189	156	1,948
Crude carbolic acid .. .. .	9,658	2,293	753
Cresol .. .. .	805	516	447
Denmark—			
Tar and pitch .. .. .	2,246	778	408
France—			
Coal .. .. .	3,449,175	3,104,527	2,823,158
Coke .. .. .	417,762	328,492	306,849
Briquettes .. .. .	202,889	123,597	121,648
Coal, coke and briquettes—			
Bunkers (domestic produce) .. .. .	119,934	48,972	(a)
do. (foreign produce) .. .. .	1,326,710	1,377,294	(a)
Tar and pitch .. .. .	45,851	15,700	15,554
Benzol, etc. .. .. .	19,439	18,154	24,731
Naphthalene, etc. .. .. .	2,344	787	1,792
Carbolic acid, etc. .. .. .	99	884	290
Germany—			
Coal .. .. .	21,760,094	17,913,825	18,023,624
do. (bunkers for foreign ships)	208,699	109,404	128,630
Brown coal .. .. .	28,506	8,590	2,714
Coke .. .. .	6,241,217	5,106,784	5,296,623
Coal briquettes .. .. .	885,201	892,821	802,936
Brown-coal briquettes .. .. .	1,921,687	1,497,245	1,279,093
Tar and pitch .. .. .	273,828	155,492	74,188
Naphthalene .. .. .	17,442	13,268	14,215
Anthracene .. .. .	376	1,220	965
Carbolic acid .. .. .	469	1,790	388
Cresol .. .. .	3,562	1,638	2,218
Light coal-tar oils, etc. .. .. .	2,033	2,651	1,504
Heavy coal-tar oils, etc. .. .. .	116,210	49,921	22,126

(a) Information not available.



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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Coal .. .. .	96,546	125,749	49,344
Brown coal .. .. .	275,795	213,675	167,497
Coke .. .. .	2,154	332	236
Briquettes .. .. .	374	432	1,598
Tar and pitch .. .. .	78	11	5
Benzols .. .. .	28	4	5
Carbolic acid and cresol .. .. .	1	1	1
Italy—			
Coal, etc. (c) .. .. .	48,979	55,336	53,467
Coke .. .. .	1,694	1,812	1,690
Tar and tar oils .. .. .	4,594	3,899	4,200
Naphthalene .. .. .	71	47	35
Benzol, toluol and xylol .. .. .	68	59	24
Carbolic acid .. .. .	20	14	7
Anthracene .. .. .	—	—	497
Latvia—			
Coal .. .. .	893	502	238
Coke .. .. .	73	28	12
Netherlands—			
Coal .. .. .	4,028,443	3,369,804	3,186,605
do. (bunkers) .. .. .	2,460,795	1,474,463	1,704,417
Brown coal .. .. .	—	30	10
Coke .. .. .	2,181,776	1,901,775	1,955,286
Briquettes .. .. .	456,854	323,067	310,400
Brown-coal briquettes .. .. .	10,344	12,255	6,064
Tar .. .. .	8,637	7,402	6,594
Creosote .. .. .	15,471	12,347	10,949
Naphthalene .. .. .	1,479	3,039	4,808
Anthracene .. .. .	2,840	2,769	1,781
Carbolic acid .. .. .	74	41	51
Benzol .. .. .	17,076	16,715	17,598
Toluol and xylol .. .. .	1,551	1,596	1,535
Naphtha .. .. .	118	45	30
Asphalt .. .. .	565	555	392
Norway—			
Tar .. .. .	215	587	195
Creosote .. .. .	3	98	—

(c) Including bunkers for foreign ships which in 1931 amounted to 23,691 long tons.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Poland—			
Bituminous coal .. .. .	13,106,651	9,740,070	8,669,123
do. (bunkers) .. .. .	493,482	320,605	285,105
Coke .. .. .	241,898	193,616	166,364
Briquettes .. .. .	4,331	5,057	6,615
Tar and pitch .. .. .	5,528	7,134	5,675
Naphthalene .. .. .	508	286	1,106
Anthracene, etc. .. .. .	1,053	465	257
Carbolic acid, etc. .. .. .	379	422	415
Benzol .. .. .	14,314	10,832	9,456
Creosote, etc. .. .. .	590	1,129	90
Portugal—			
Coal .. .. .	233	225	192
do. (bunkers) .. .. .	231,785	117,233	158,866
Tar and pitch .. .. .	44	684	85
Roumania—			
Anthracite .. .. .	29,258	12,766	6,609
Bituminous coal .. .. .	3,176	2,792	276
Coke .. .. .	435	—	1
Brown coal .. .. .	854	67	15
Tar .. .. .	336	—	1
Creosote, etc. .. .. .	761	—	5
Spain—			
Coal .. .. .	61	1,081	3,463
Coke .. .. .	141	102	58
Briquettes .. .. .	10	—	984
Tar and pitch .. .. .	182	112	11
Benzol, toluol, etc. .. .. .	1	22	9
Spitzbergen—			
Coal .. .. .	203,086	253,059	318,046
Sweden—			
Anthracite .. .. .	69	3	40
Bituminous coal .. .. .	158	103	539
Coke .. .. .	3,074	5,332	9,157
Tar, pitch, etc. .. .. .	13,790	10,816	12,162
Benzol oils .. .. .	675	443	1,530
Carbolic acid, etc. .. .. .	3	107	4
Switzerland—			
Coal .. .. .	335	888	104
Coke .. .. .	1,419	515	572
Briquettes .. .. .	208	3	8
Tar and pitch .. .. .	2,245	5,135	6,984
Creosote, etc. .. .. .	404	560	679
Naphthalene, etc. .. .. .	244	177	238

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
U.S.S.R. (Russia)—			
Anthracite .. .. .	663,639	861,702	793,575
Other coal .. .. .	984,505	905,055	995,240
Coke .. .. .	216	75	15
Tar .. .. .	27,574	45,235	48,775
Yugoslavia—			
Bituminous coal .. .. .	926	671	1,889
Lignite .. .. .	51,893	46,111	38,254
Brown coal .. .. .	32,151	10,368	11,617
Coke .. .. .	190	56	20
Tar and pitch .. .. .	—	1	496
Creosote .. .. .	2	3	60
Algeria—			
Coal .. .. .	4,001	2,093	} (a)
do. (bunkers) .. .. .	519	95	
do. do. (b) .. .. .	1,324,739	1,033,005	
Coke .. .. .	518	100	
Briquettes .. .. .	12,423	828	
do. (bunkers) .. .. .	71	852	
do. do. (b) .. .. .	5,280	6,685	
Tar .. .. .	205	4	
Benzol .. .. .	35	—	
Belgian Congo—			
Coal and briquettes .. .. .	250	3	5
Canary Islands—			
Anthracite .. .. .	4,935	—	(a)
Coal (bunkers) (b) .. .. .	197,576	241,226	(a)
Cape Verde Islands (b)—			
Coal (bunkers) .. .. .	118,595	70,000	(a)
Egypt—			
Coke .. .. .	1,030	632	403
French West Africa—			
Senegal (b)—			
Coal (bunkers) .. .. .	106,181	60,838	58,637
Morocco—			
Coal .. .. .	601	1,648	2,217
Mozambique—			
Coal .. .. .	2,961	5,308	(a)

(a) Information not available.

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

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Spanish Africa ( <i>b</i> )—			
Ceuta—			
Coal .. .. .	779	1,115	} (a)
do. (bunkers) .. .. .	36,886	69,739	
Coke .. .. .	16	10	
Melilla—			
Coal .. .. .	100	31	
Coke .. .. .	4	—	
French West Indies—			
Martinique—			
Coal ( <i>c</i> ) .. .. .	79,000	40,000	(a)
Netherlands West Indies—			
Coal (bunkers) .. .. .	5,419	3,699	(a)
St. Pierre and Miquelon ( <i>b</i> )—			
Coal (bunkers) .. .. .	6,000	(a)	(a)
United States—			
Anthracite .. .. .	1,587,775	1,163,710	923,716
Bituminous .. .. .	10,827,053	7,869,685	8,068,703
do. (bunkers) .. .. .	1,959,901	1,204,319	1,174,636
Coke .. .. .	673,484	562,635	569,481
Tar and pitch .. .. .	66,523	276,984	330,988
Benzol .. .. .	72,870	10,804	28,132
Creosote .. .. .	5,929	452	543
Argentina—			
Coal (bunkers) ( <i>c</i> ) .. .. .	79,272	26,376	18,584
Brazil—			
Coal .. .. .	27	3	(a)
Chile—			
Coal .. .. .	15,977	30,626	119,116
do. (bunkers) ( <i>d</i> ) .. .. .	208,975	46,089	(a)
Coke .. .. .	28	85	56
Uruguay—			
Coal ( <i>b</i> ) .. .. .	59,039	55,523	60,183

(a) Information not available.

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

(c) Foreign coal; excluded from imports.

(d) National ships only.

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

Exporting Country and Description.	1931	1932	1933
<b>FOREIGN COUNTRIES (Cont.)</b>			
China—			
Coal .. .. .	} 2,995,419	{ 2,013,881	572,902
do. (dust) .. .. .			101,701
do. (bunkers) .. .. .	587,604	(e)	(e)
Coke .. .. .	8,002	4,048	1,682
Benzol .. .. .	—	1,124	738
Formosa—			
Coal .. .. .	77,146	62,646	} 330,515
do. (bunkers) .. .. .	28,375	57,972	
Coal dust .. .. .	290,364	166,492	
do. (bunkers) .. .. .	126,631	132,721	
Coke .. .. .	611	638	(a)
Tar .. .. .	60	45	(a)
French Indo-China—			
Coal .. .. .	1,228,445	1,129,072	1,236,769
Coke .. .. .	120	58	39
Briquettes .. .. .	23,538	14,530	6,218
Tar .. .. .	26	12	603
Japan—			
Coal .. .. .	1,515,808	1,365,971	1,535,536
do. (bunkers) .. .. .	1,872,418	1,749,245	1,986,720
Tar, pitch, etc. .. .. .	19,218	21,999	31,166
Korea—			
Coal .. .. .	315,697	397,875	469,265
Briquettes .. .. .	299	114	904
“Manchoukuo”—			
Coal .. .. .	(a)	3,345,743	3,940,920
do. (bunkers) .. .. .	(a)	428,278	596,849
Coke .. .. .	(a)	5,782	7,370
Benzol .. .. .	(a)	1,157	1,261
Netherlands East Indies—			
Coal .. .. .	383,177	256,316	261,248
do. (bunkers) .. .. .	58,507	14,404	8,865
Persia (f) (g)—			
Coal, coke and peat .. .. .	11	1	—
Benzol .. .. .	56	90	29
Turkey—			
Anthracite .. .. .	66,414	1,673	(a)
Coal, peat and briquettes .. .. .	145,933	414,665	541,000
Coke .. .. .	1	3	(a)

(a) Information not available.

(e) Included with coal.

(f) Including re-exports.

(g) Years ended March 21 of year stated for 1931 and June 21 for 1932 and 1933.

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

(Less Re-exports)

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom			
Coal .. .. .	21,536	17,621	13,210
Coke .. .. .	502	10,213	20,465
Manufactured fuel.. .. .	332	193	336
Tar and pitch .. .. .	1,598	6,717	14,665
Heavy coal-tar oils .. .. .	2,041	1,074	358
Naphthalene .. .. .	466	853	665
Anthracene.. .. .	278	697	821
Carbolic acid .. .. .	11	1	568
Cresylic acid .. .. .	19	5	(a)
Benzol .. .. .	12,404	462	2,309
Irish Free State (total imports)—			
Anthracite .. .. .	31,078	31,709	405,263
Bituminous .. .. .	2,361,973	2,256,095	1,845,949
Coke .. .. .	18,903	20,129	18,887
Tar and pitch .. .. .	7,755	7,253	2,139
Creosote etc. .. .. .	267	279	869
Tar and bitumen mixture .. .. .	8,566	7,173	11,272
Benzol .. .. .	258	35	28
Malta—			
Coal (c) .. .. .	90,716	70,173	76,406
Anglo-Egyptian Sudan—			
Coal .. .. .	84,030	46,266	57,547
Coke .. .. .	501	365	881
Patent fuel .. .. .	2,286	3,476	2,734
Tar and pitch .. .. .	164	50	91
Gambia—			
Coal, coke and patent fuel .. .. .	2,052	1,560	1,701
Gold Coast—			
Coal .. .. .	23,811	29,066	26,888
Coke .. .. .	900	138	232
Patent fuel .. .. .	500	209	412
Kenya and Uganda—			
Coal .. .. .	66,539	50,657	85,156
Coke .. .. .	204	96	452
Tar, pitch and bitumen .. .. .	1,592	198	758
Cresote, etc. .. .. .	110	92	65

\* For ammonium sulphate, etc., see Nitrogen Compounds, pages 253-261.

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

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

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Mauritius—			
Coal .. .. .	37,216	20,905	38,412
Coke .. .. .	243	117	} 8,813
Patent fuel .. .. .	7,699	5,784	
Tar and pitch .. .. .	54	50	74
Nigeria—			
Coal .. .. .	23,811	31,100	26,460
Coal and patent fuel .. .. .	1,400	1,215	836
Northern Rhodesia—			
Coal and patent fuel .. .. .	119,306	118,661	173,446
Coke .. .. .	1,300	288	799
Nyasaland—			
Coal and coke .. .. .	3,623	915	2,975
Seychelles—			
Coal .. .. .	298	—	—
Sierra Leone—			
Coal (c) .. .. .	36,100	28,543	20,168
Coke .. .. .	30	—	53
Patent fuel.. .. .	—	—	2,100
Southern Rhodesia—			
Coal and coke .. .. .	88	133	114
Tar, pitch, etc. .. .. .	230	216	75
South West Africa—			
Coal .. .. .	1,674	1,013	893
Coke .. .. .	4,746	66	47
Tanganyika Territory—			
Coal .. .. .	50,586	15,628	7,718
Coke .. .. .	299	12	52
Creosote .. .. .	6	11	27
Union of South Africa—			
Coal, coke and patent fuel .. .. .	38	2,516	110
Benzine and benzol .. .. .	62	263	—
Tar and pitch .. .. .	470	333	500
Naphthalene .. .. .	183	145	210
Creosote .. .. .	507	723	352
Zanzibar—			
Coal .. .. .	7,777	2,759	3,685
Canada—			
Anthracite .. .. .	2,821,171	2,797,865	2,685,188
do. dust, etc. .. .. .	2,326	13,654	7,287
Bituminous .. .. .	8,640,953	7,606,444	6,996,013
Brown .. .. .	5,723	2,682	2,417
Coal (bunkers) .. .. .	245,012	257,066	312,700
Coke .. .. .	611,668	578,642	560,365

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

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

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE ( <i>Cont.</i> )			
Canada—( <i>cont.</i> )			
Tar .. .. .	8,165	9,223	1,819
Pitch .. .. .	(£9,444)	420	772
Naphthalene .. .. .	330	546	470
Carbolic acid, etc. .. .. .	9,948	2,012	1,466
Newfoundland (years ended June 30)—			
Anthracite .. .. .	12,089	9,228	10,810
Other coal .. .. .	326,046	239,010	207,649
Coke .. .. .	584	180	3,803
British Guiana—			
Coal .. .. .	4,569	3,272	3,378
Coke .. .. .	74	88	121
Patent fuel .. .. .	2,462	6,253	4,000
British West Indies—			
Bahamas—			
Coal .. .. .	613	71	115
Barbados—			
Coal ( <i>c</i> ) .. .. .	11,339	11,398	( <i>a</i> )
Bermuda—			
Coal .. .. .	11,729	7,332	8,080
Jamaica—			
Coal .. .. .	80,843	145,513	120,735
Coke .. .. .	51	55	54
Leeward Islands ( <i>d</i> )—			
Coal, coke, etc. .. .. .	1,806	1,816	3,523
St. Lucia—			
Coal ( <i>c</i> ) .. .. .	4,575	22,779	22,561
St. Vincent—			
Coal .. .. .	27	62	78
Trinidad and Tobago—			
Coal ( <i>c</i> ) .. .. .	34,861	35,734	41,151
Coke .. .. .	48	334	16
Patent fuel .. .. .	2,951	6,098	7,440
British Honduras—			
Coal and coke .. .. .	383	128	137
Aden (total imports)—			
Coal ( <i>e</i> ) .. .. .	35,006	36,331	41,293
Coke .. .. .	5	24	48
Tar and pitch .. .. .	19	33	20
Naphthalene .. .. .	104	169	288



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

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
British Borneo—			
State of North Borneo—			
Coal and coke .. .. .	8	15	633
British India (total imports)—			
Coal .. .. .	76,086	33,632	46,209
Coke .. .. .	11,949	13,912	21,121
Coal and coke on government account .. .. .	—	131	202
Tar and pitch .. .. .	2,689	4,312	8,206
Naphthalene .. .. .	346	423	542
Carbolic acid .. .. .	38	23	31
British Malaya (total imports)—			
Coal (c) .. .. .	550,225	538,831	553,623
Coke .. .. .	5,081	3,565	4,236
Tar .. .. .	1,616	1,365	1,761
Ceylon—			
Coal (c) .. .. .	494,268	350,046	404,916
Coke .. .. .	756	902	381
Cyprus—			
Coal .. .. .	10,607	10,454	10,296
Tar and pitch .. .. .	40	12	9
Hong Kong (total imports)—			
Anthracite .. .. .	2,256	19,604	60,061
Bituminous .. .. .	659,666	757,029	838,720
Coke .. .. .	2,324	2,468	2,515
Palestine (total imports)—			
Anthracite .. .. .	20,412	27,566	32,284
Other coal .. .. .	19,044	22,443	20,558
Briquettes .. .. .	3,724	3,815	4,730
Tar and pitch .. .. .	77	83	52
Australia—			
Coal .. .. .	737	4,764	4,368
Coke .. .. .	618	616	610
Tar and pitch .. .. .	403	243	(a)
Naphthalene .. .. .	134	156	188
Carbolic acid .. .. .	25	23	27
Tar oil .. .. .	154	691	705
Fiji—			
Coal .. .. .	21,213	18,877	21,331
Coke .. .. .	151	421	343
Tar and pitch .. .. .	(£1,108)	(£1,116)	(£520)

(a) Information not available.

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

(d) Total imports, including inter-presidency trade.

(e) Imported chiefly for bunkering purposes. Exports of bunkers not available.

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

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
New Zealand—			
Coal .. .. .	179,060	103,531	99,272
Coke .. .. .	186	601	602
Benzol, toluol, etc. .. .. .	16	30	17
Naphthalene .. .. .	(£333)	(£255)	(£304)
Solomon Islands (b)—			
Coal .. .. .	1,130	922	(a)
Western Samoa—			
Coal .. .. .	(£53)	(£158)	(£9)
FOREIGN COUNTRIES			
Austria—			
Coal .. .. .	3,769,479	2,947,103	2,630,591
Brown coal .. .. .	348,357	173,583	155,513
Coke .. .. .	372,887	301,391	261,700
Briquettes .. .. .	60,784	30,965	20,533
Carbolic acid .. .. .	262	277	306
Tar and pitch .. .. .	826	153	182
Naphthalene .. .. .	21	9	9
Carbolineum, creolin, etc. .. .. .	1	2	2
Tar oils .. .. .	2,376	818	496
Belgium-Luxemburg E.U.—			
Coal .. .. .	9,377,948	6,627,847	5,141,282
Brown coal .. .. .	176,088	164,912	146,174
Coke .. .. .	2,119,833	1,911,825	1,727,013
Briquettes .. .. .	240,434	198,727	207,063
Tar and pitch .. .. .	140,960	119,022	91,984
Naphthalene .. .. .	7,693	6,304	4,883
Anthracene .. .. .	1,303	767	857
Distillates .. .. .	38,532	51,025	18,502
Bulgaria—			
Coal .. .. .	81	43	—
Coke .. .. .	4,010	4,345	4,431
Carbolic acid .. .. .	6	6	6
Naphthalene .. .. .	332	325	239
Creosote, etc. .. .. .	3,631	12	1,389

(a) Information not available.

(b) Years ended March 31 following.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Coal .. .. .	1,801,967	1,562,978	1,128,722
Brown coal .. .. .	116,887	102,032	54,791
Coke .. .. .	230,598	225,176	165,360
Briquettes .. .. .	33,447	32,380	25,847
Tar and pitch .. .. .	17,014	1,517	1,655
Benzol, etc .. .. .	458	102	106
Crude carbolic acid .. .. .	171	158	781
Cresol .. .. .	39	27	39
Denmark—			
Coal .. .. .	3,603,349	3,545,464	3,625,599
Coke .. .. .	1,070,207	935,981	912,107
Briquettes .. .. .	338,319	150,522	29,250
Tar and pitch .. .. .	13,376	4,282	2,283
Benzol .. .. .	945	759	926
Carbolic acid .. .. .	11	16	19
Estonia—			
Coal .. .. .	90,978	47,201	47,729
Coke .. .. .	2,380	1,474	1,997
Tar and pitch .. .. .	717	32	62
Naphthalene .. .. .	17	10	16
Carbolic acid .. .. .	3	3	10
Benzol .. .. .	3	6	16
Finland (total imports)—			
Anthracite .. .. .	612	2,241	2,160
Bituminous .. .. .	863,589	873,659	931,485
Brown coal, briquettes, etc. .. .. .	5,334	819	501
Coke .. .. .	186,571	167,562	184,926
Tar and pitch .. .. .	1,304	811	808
Carbolic acid, creosote and cresol .. .. .	1,753	2,929	1,133
Naphthalene .. .. .	83	76	102
Benzol .. .. .	4,223	52	14
Carbolineum .. .. .	136	134	109
France—			
Coal .. .. .	22,723,091	17,581,726	17,668,912
Coke .. .. .	3,343,921	1,932,076	2,210,918
Briquettes .. .. .	1,546,426	1,073,530	1,002,138
Tar and pitch .. .. .	481,887	686,441	662,424
Naphthalene, etc. .. .. .	1,918	3,916	2,264
Carbolic acid, etc. .. .. .	632	1,585	1,149
Benzol .. .. .	5,871	9,200	13,382

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Germany—			
Coal .. .. .	5,681,301	4,137,222	4,089,947
Brown coal .. .. .	1,767,942	1,416,651	1,556,683
Coke .. .. .	648,586	715,609	706,587
Coal briquettes .. .. .	58,712	77,427	77,813
Brown-coal briquettes .. .. .	83,026	68,029	76,597
Tar and pitch .. .. .	50,982	23,539	70,778
Naphthalene .. .. .	1,073	425	3,340
Anthracene .. .. .	39	55	324
Carbolic acid .. .. .	984	1,630	2,127
Cresol .. .. .	836	688	818
Light coal-tar oils, etc. .. .. .	136,670	80,828	67,821
Heavy coal-tar oils, etc. .. .. .	3,426	6,146	23,448
Greece—			
Coal .. .. .	765,663	722,834	586,791
Coke .. .. .	30,253	38,083	41,526
Naphthalene .. .. .	579	548	652
Pitch .. .. .	245	127	2,736
Benzol .. .. .	626	364	236
Hungary—			
Coal .. .. .	596,124	210,945	180,419
Brown coal .. .. .	13,224	5,325	5,014
Coke .. .. .	245,199	161,454	139,259
Briquettes .. .. .	89	—	—
Tar and pitch .. .. .	15,532	31,917	14,285
Benzols .. .. .	1,561	1,107	1,049
Carbolic acid and cresol .. .. .	16	16	30
Anthracene, etc. .. .. .	89	74	59
Iceland—			
Coal .. .. .	112,367	112,628	(a)
Coke .. .. .	1,005	1,078	(a)
Tar and pitch .. .. .	32	18	(a)
Carbolineum .. .. .	23	1	(a)
Italy—			
Anthracite .. .. .	1,222,499	895,718	949,271
Bituminous coal .. .. .	8,734,688	6,737,363	7,444,295
Lignite .. .. .	45,447	45,862	46,464
Coke .. .. .	709,596	744,342	755,194
Coal briquettes .. .. .	145,773	159,589	162,466
Brown-coal briquettes .. .. .	53,654	50,632	47,388
Tar and tar oils .. .. .	19,348	14,119	18,812
Carbolic acid .. .. .	591	478	731
Naphthalene .. .. .	1,507	1,465	1,938
Benzol, toluol and xylol .. .. .	9,769	6,617	8,369

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Latvia—			
Coal .. .. .	457,022	364,508	422,794
Coke .. .. .	63,477	62,532	50,654
Briquettes .. .. .	10,639	197	1,329
Tar and pitch .. .. .	2,570	573	373
Carbolic acid .. .. .	6	8	6
Naphthalene .. .. .	34	53	42
Benzol .. .. .	44	13	13
Creosote, etc. .. .. .	1,449	2,459	2,000
Lithuania—			
Coal .. .. .	232,000	214,006	219,440
Coke .. .. .	19,096	21,778	22,362
Briquettes .. .. .	8,326	5,133	5,311
Carbolic acid .. .. .	—	7	1
Naphthalene .. .. .	21	15	19
Tar .. .. .	537	597	1,164
Netherlands—			
Coal .. .. .	8,366,474	6,410,497	6,619,324
Brown coal .. .. .	32	55	243
Coke .. .. .	310,678	311,182	326,442
Briquettes .. .. .	392,630	348,815	367,555
Brown-coal briquettes .. .. .	188,742	168,083	149,993
Tar .. .. .	8,431	2,389	5,790
Creosote .. .. .	6,852	1,171	166
Naphthalene .. .. .	333	346	406
Carbolic acid .. .. .	96	128	320
Benzol .. .. .	385	85	42
Toluol and xylol .. .. .	126	101	121
Naphtha .. .. .	45	50	93
Asphalt .. .. .	1,080	377	719
Norway—			
Coal .. .. .	1,857,898	1,988,194	2,029,066
Coke .. .. .	428,965	366,421	363,655
Tar and pitch, etc. .. .. .	2,710	7,528	9,606
Creosote, etc. .. .. .	3,750	3,540	2,451
Poland—			
Anthracite .. .. .	2,807	4,486	12,383
Bituminous coal .. .. .	42,096	88,367	106,041
Brown coal .. .. .	296	256	—
Coke .. .. .	68,507	39,558	45,055
Briquettes .. .. .	17,422	11,839	7,188
Tar and pitch .. .. .	3,232	6,389	4,590
Creosote, etc. .. .. .	158	141	110
Benzol .. .. .	368	80	12
Carbolic acid, etc. .. .. .	27	4	5
Anthracene, etc. .. .. .	52	17	57

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Portugal—			
Coal and coke .. .. .	1,082,694	901,937	1,081,163
Briquettes .. .. .	10,510	244	9,923
Tar and pitch .. .. .	1,573	3,530	2,022
Carbolic acid .. .. .	3	2	3
Naphthalene .. .. .	94	77	90
Roumania—			
Anthracite .. .. .	4,864	317	294
Bituminous coal .. .. .	67,011	59,622	32,198
Coke .. .. .	42,085	43,553	34,658
Brown coal .. .. .	144	231	117
Briquettes .. .. .	322	487	185
Naphthalene .. .. .	251	214	255
Benzol .. .. .	152	160	221
Tar .. .. .	119	165	303
Creosote, etc. .. .. .	12,768	2,289	19
Carbolic acid .. .. .	61	36	70
Spain—			
Anthracite .. .. .	81,840	81,677	43,523
Bituminous coal .. .. .	933,938	725,313	669,674
Other coal .. .. .	354	127	31
Coke .. .. .	147,906	80,077	60,347
Briquettes .. .. .	16,659	15,931	11,775
Benzol, toluol, xylol, etc. .. .. .	580	2,478	522
Cresol and carbolic acid .. .. .	55	46	19
Creosote .. .. .	384	1,112	277
Tar and pitch .. .. .	61,070	50,068	40,540
Sweden—			
Anthracite .. .. .	74,244	75,205	81,487
Bituminous coal .. .. .	4,388,751	4,382,379	4,518,952
Coke .. .. .	1,416,417	1,276,564	1,357,908
Briquettes .. .. .	11,039	7,523	5,770
Tar, pitch, etc. .. .. .	2,805	2,279	1,396
Benzol oils .. .. .	297	1,349	755
Carbolic acid, etc. .. .. .	8,166	5,951	5,773
Switzerland—			
Coal .. .. .	1,925,038	1,877,273	1,871,117
Lignite .. .. .	311	257	360
Coke .. .. .	757,194	779,907	745,979
Briquettes .. .. .	555,340	570,367	497,225
Tar and pitch .. .. .	33,943	34,443	32,386
Creosote, etc. .. .. .	1,329	772	929
Naphthalene, etc. .. .. .	7,217	6,835	6,944

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
U.S.S.R. (Russia)—			
Coal .. .. .	104,919	51,682	15,160
Coke and briquettes .. .. .	20	—	33
Benzol, etc. .. .. .	19	—	—
Carbolic acid .. .. .	170	—	—
Yugoslavia—			
Anthracite .. .. .	41,484	30,594	19,608
Bituminous coal .. .. .	231,675	164,488	104,858
Lignite .. .. .	30	251	—
Brown coal .. .. .	1,374	2,194	1,883
Coke .. .. .	168,292	151,061	158,921
Briquettes .. .. .	205	69	26
Tar .. .. .	1,873	2,035	1,983
Light oils .. .. .	143	181	210
Heavy oils .. .. .	11,517	9,571	8,444
Naphthalene, etc. .. .. .	426	168	502
Carbolic acid, etc. .. .. .	57	29	27
Algeria—			
Coal (b) .. .. .	486,423	465,848	} 644,458  (a)
Coke .. .. .	2,530	2,005	
Briquettes .. .. .	255,220	135,831	
Tar and pitch .. .. .	14,298	11,219	
Benzol .. .. .	7	28	
Naphthalene .. .. .	84	87	
Heavy oils .. .. .	312	470	
Angola—			
Coal .. .. .	31,930	26,636	36,790
Coke .. .. .	56	383	—
Tar and pitch .. .. .	117	133	160
Belgian Congo—			
Coal .. .. .	69,003	26,357	517
Coke .. .. .	37,219	25,159	15,116
Briquettes .. .. .	37,648	32,407	28,381
Cameroon (French)—			
Coal .. .. .	158	7,385	151

(a) Information not available.

(b) Total imports (chiefly for bunkering purposes) were :—

1931 .. .. . 2,175,328 long tons.

1932 .. .. . 1,401,120 do.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Canary Islands (total imports)—			
Anthracite (c) .. .. .	6,760	5,480	} (a)
Bituminous (c) .. .. .	197,576	241,226	
Briquettes .. .. .	7,952	2,795	
Coke .. .. .	9,240	12,107	
Tar and pitch .. .. .	1,241	214	
Benzol, toluol, etc. .. .. .	54	175	
Cape Verde Islands—			
Coal (c) .. .. .	141,056	50,938	(a)
Egypt—			
Coal .. .. .	1,091,031	954,032	993,588
Coke .. .. .	14,428	11,882	21,100
Briquettes .. .. .	48,909	40,213	26,324
Tar and pitch .. .. .	2,815	3,412	101
Naphthalene .. .. .	144	120	113
French Equatorial Africa—			
Coal .. .. .	} 1,518	1,772	2,008
Briquettes .. .. .		158	2
Tar .. .. .		(a) 31	—
French Somaliland—			
Coal .. .. .	24,933	20,911	10,734
French Togoland—			
Coal .. .. .	3,461	5,094	2,431
Coke .. .. .	—	41	20
Tar .. .. .	55	79	64
French West Africa—			
Dahomey—			
Coal .. .. .	4,193	3,882	4,837
French Guinea—			
Coal, coke and briquettes .. .. .	2,610	556	1,265
Ivory Coast—			
Coal, coke and briquettes .. .. .	243	11	18
Mauritania—			
Coal .. .. .	6	20	(a)
Senegal—			
Coal, coke, etc. (c) .. .. .	163,749	129,610	106,872
Tar .. .. .	55	(a)	(a)
Madagascar—			
Coal .. .. .	13,457	10,929	19,165
Tar .. .. .	172	138	121

(a) Information not available.

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



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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Morocco—			
Coal .. .. .	149,596	169,264	138,668
Coke .. .. .	2,761	10,335	7,566
Briquettes .. .. .	(a)	18,576	46,449
Tar and bitumen .. .. .	13,392	17,372	13,625
Mozambique—			
Coal .. .. .	114,226	113,193	} (a)
Coke .. .. .	135	60	
Tar and pitch .. .. .	127	81	
Portuguese Guinea—			
Coke .. .. .	(a)	52	(a)
Réunion—			
Coal .. .. .	6,775	7,186	5,832
Coke .. .. .	(a)	54	30
Spanish Africa (b)—			
Ceuta—			
Coal (e) .. .. .	49,771	73,662	} (a)
Coke .. .. .	79	—	
Melilla—			
Coal .. .. .	16,366	15,884	
Coke .. .. .	765	400	
Tunis—			
Coal .. .. .	160,158	144,980	184,382
Coke .. .. .	7,781	2,610	5,585
Briquettes .. .. .	15,546	19,218	21,630
Tar .. .. .	4,318	6,119	22
Costa Rica (b)—			
Coal .. .. .	2,230	222	2,525
Tar and bitumen .. .. .	106	(a)	(a)
Cuba (b)—			
Coal .. .. .	342,278	249,226	} (a)
Coke .. .. .	24,945	47,737	
Creosote oil .. .. .	25	20	
Tar .. .. .	111	126	
Dominican Republic (b)—			
Coal .. .. .	3,974	4,638	2,967
Coke, briquettes, etc. .. .. .	87	150	151
French West Indies—			
Guadeloupe—			
Coal .. .. .	7,095	6,886	(a)

(a) Information not available.

(b) Total imports.

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

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French West Indies—(cont.)			
Martinique—			
Coal .. .. .	16,297	18,970	14,020
Coke .. .. .	250	29	—
Mexico—			
Coal .. .. .	19,985	8,101	10,924
Coke .. .. .	992	613	1,142
Tar and pitch .. .. .	315	117	244
Benzol .. .. .	6	3	33
Netherlands West Indies—			
Coal .. .. .	3,438	3,798	(a)
Nicaragua (total imports)—			
Coal and coke .. .. .	136	75	137
St. Pierre and Miquelon—			
Coal .. .. .	5,000	10,000	(a)
United States—			
Anthracite .. .. .	(c) 569,599	542,051	407,368
Bituminous coal and lignite .. .. .	(c) 184,199	166,883	176,133
Coke .. .. .	92,467	104,710	143,881
Briquettes .. .. .	(a)	(d) 26,081	37,853
Tar and pitch .. .. .	4,356	5,793	22,299
Creosote oil .. .. .	146,369	116,269	73,761
Naphthalene .. .. .	13,826	12,055	19,101
Carbolic acid .. .. .	317	287	56
Argentina—			
Coal and briquettes .. .. .	2,577,794	2,349,504	2,399,129
Coke .. .. .	22,452	29,125	18,741
Tar and pitch .. .. .	16	35	113
Naphthalene .. .. .	603	414	582
Carbolic acid .. .. .	149	170	195
Creolin .. .. .	11	92	72
Bolivia—			
Coal and coke .. .. .	3,532	(a)	(a)
Brazil (total imports)—			
Coal .. .. .	1,115,888	1,081,867	} 1,271,614
Coke .. .. .	9,693	14,791	
Briquettes .. .. .	139,610	74,022	
Chile—			
Coal .. .. .	2,239	470	31
Coke .. .. .	8,264	2,607	2,982
Briquettes .. .. .	—	495	—

(a) Information not available.

(c) Total imports. Re-exports of coal were 5,637 tons.

(d) June 21 to December 31.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Chile—(cont.)			
Creosote, etc. .. .. .	6	139	1
Naphthalene, etc. .. .. .	45	50	58
Carbolic acid and cresol .. .. .	2,644	315	1
Colombia—			
Coal and briquettes .. .. .	2,337	1,229	} (a)
Tar and pitch .. .. .	37	65	
Carbolic acid .. .. .	3	6	
Cresol, creolin, etc. .. .. .	414	11	
Dutch Guiana—			
Coal .. .. .	4,616	3,010	2,248
Ecuador—			
Coal, coke, etc. .. .. .	517	245	} (a)
Creosote, etc. .. .. .	1	—	
Creolin .. .. .	28	15	
French Guiana—			
Coal .. .. .	10	33	(a)
Coke .. .. .	38	26	(a)
Peru—			
Coal .. .. .	29,779	15,246	15,709
Coke .. .. .	926	2,344	1,696
Tar .. .. .	113	76	173
Naphthalene .. .. .	17	12	19
Uruguay—			
Coal .. .. .	386,316	313,297	338,572
Venezuela—			
Coal .. .. .	15,620	14,681	} (a)
Naphthalene .. .. .	34	9	
Aniline .. .. .	42	44	
China—			
Coal .. .. .	1,902,890	1,418,311	1,942,896
Coke .. .. .	6,265	3,202	2,688
Briquettes .. .. .	(a)	2,620	4,512
Tar and pitch .. .. .	1,659	1,366	1,762
Carbolic acid .. .. .	454	313	552
Naphthalene .. .. .	(a)	577	861
Formosa—			
Coal .. .. .	47,271	56,870	(a)
Coke .. .. .	6,114	2,204	(a)
French Indo-China—			
Coal .. .. .	15,358	17,602	15,526
Coke .. .. .	858	315	512
Tar and pitch .. .. .	5,218	4,398	6,872

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Iraq (years ended March 31 of the year following)—			
Coal .. .. .	1,135	2,534	2,063
Coke .. .. .	118	162	226
Tar and pitch .. .. .	22	12	333
Japan (total imports)—			
Coal .. .. .	2,650,144	2,673,222	3,440,703
Coke .. .. .	3,329	2,163	4,429
Carbolic acid .. .. .	116	102	215
Naphthalene .. .. .	3,051	3,020	3,516
Distillates .. .. .	1,780	2,893	6,710
Korea (total imports)—			
Coal .. .. .	830,212	846,286	1,060,821
Coke .. .. .	6,429	11,146	20,299
Tar and pitch .. .. .	3,176	6,001	3,721
"Manchoukuo"—			
Coal and briquettes .. .. .	(a)	32,640	12,077
Tar .. .. .	(a)	1,680	261
Netherlands East Indies—			
Coal .. .. .	83,418	75,196	48,961
Coke .. .. .	4,687	5,748	6,257
Tar .. .. .	1,509	1,844	1,107
Benzol .. .. .	116	448	314
Carbolineum .. .. .	154	149	157
Carbolic acid .. .. .	31	12	24
Creolin, etc. .. .. .	367	277	312
Naphthalene .. .. .	234	293	296
Asphalt .. .. .	53	44	468
Philippine Islands—			
Coal .. .. .	353,205	296,609	} (a)
Coke .. .. .	2,202	2,996	
Carbolic acid .. .. .	6	2	
Persia (total imports) (g)—			
Coal, coke and peat .. .. .	1,372	120	562
Tar .. .. .	277	643	161
Benzol .. .. .	366	1	—
Portuguese India—			
Coal .. .. .	14,374	(a)	(a)
Siam (total imports)—			
Coal .. .. .	26,306	16,275	21,476
Coke .. .. .	1,409	1,213	1,549

(a) Information not available.

(g) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Syria and Lebanon—			
Anthracite .. .. .	3,697	1,563	1,260
Other coal .. .. .	34,833	55,957	35,605
Briquettes .. .. .	18,666	15,807	27,570
Coke .. .. .	2,289	799	2,298
Tar .. .. .	28	20	32
Naphthalene .. .. .	37	12	37
Turkey—			
Anthracite .. .. .	8,846	23,002	} (a)
Coal, peat and briquettes ..	19,177	6,238	
Coke .. .. .	11,637	24,337	
Creosote .. .. .	74	1,119	
Cresol and naphthalene .. ..	252	169	
New Caledonia—			
Coal .. .. .	69,792	61,245	80,707
Coke .. .. .	8,006	9	—

**COBALT**

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PRODUCTION OF COBALT

(Cwt.)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Northern Rhodesia .. .. .	—	—	2,330
Canada (c) .. .. .	4,652	4,381	4,167
India (b) .. .. .	2,000	2,500	2,300
Australia (metal) .. .. .	—	60	125
<b>FOREIGN COUNTRIES</b>			
Belgian Congo (d) ... .. .	7,280	6,590	12,160
French Morocco (ore) .. .. .	—	11,220	12,000

*Note* :—Complex ores containing cobalt are also found in Germany and China, but cobalt content is not available.

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

(c) Metal recovered from smelter products plus cobalt contained in cobalt residues exported.

(d) Content of metal, oxide and salts produced at Oolen (Belgium) from ores raised in the Belgian Congo.

## EXPORTS OF COBALT, ETC.

*(Domestic Produce)*

(Cwt.)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Cobalt and cobalt alloys ..	44	39	28
Cobalt oxide .. ..	848	743	772
Canada—			
Cobalt ore ( <i>Co content</i> ) ..	2,438	1,113	479
Cobalt .. .. .	522	522	430
Cobalt alloys .. ..	147	182	244
Cobalt oxides and salts ..	2,876	3,368	4,170
Australia—			
Cobalt ore .. .. .	209	860	892
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Cobalts salts .. ..	795	2,421	2,185
Czechoslovakia—			
Zaffre and smalt .. ..	—	2	2
France—			
Cobalt ore .. .. .	—	2	16
Cobalt oxide, including zaffre and smalt .. ..	16	37	—
Cobalt salts .. .. .	8	24	26
Poland—			
Cobalt .. .. .	—	—	37
Belgian Congo—			
Copper-cobalt alloy ..	8,223	—	—
Morocco—			
Ore .. .. .	—	3,970	11,970

## IMPORTS OF COBALT, ETC.

*(Less Re-exports)*

(Cwt.)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Cobalt and cobalt alloys ..	3,723	2,857	3,444
Cobalt oxide .. ..	3,751	2,538	2,569
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Cobalt salts .. ..	148	100	91
Bulgaria—			
Cobalt salts .. ..	2	2	—
Czechoslovakia—			
Zaffre and smalt .. ..	341	236	220
France—			
Cobalt ore .. ..	500	15,043	2,362
Cobalt oxide, including zaffre and smalt .. ..	1,118	335	356
Cobalt salts .. ..	12	35	10
Italy—			
Cobalt oxide .. ..	262	207	303
Poland—			
Cobalt .. ..	2	16	122
Cobalt salts .. ..	35	35	69
Roumania—			
Cobalt oxide .. ..	9	12	23
U.S.S.R. (Russia)—			
Cobalt .. ..	(a)	(a)	180
United States—			
Cobalt ore and metal ..	2,222	1,342	7,481
Cobalt oxide .. ..	2,874	2,017	5,079
French Indo-China—			
Cobalt oxide .. ..	4	2	18
Japan (total imports)—			
Cobalt oxide .. ..	722	853	1,053

(a) Information not available.



## COPPER

## PRODUCTION OF COPPER ORE

*(In terms of metal)**(Long tons)*

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	66	61	40
Northern Rhodesia .. .. .	32,403	87,239	129,423
Southern Rhodesia (smelter) .. .. .	530	6	—
South West Africa (b) .. .. .	8,300	2,400	—
Union of South Africa .. .. .	10,045	9,254	8,250
Canada .. .. .	130,493	110,571	133,921
Newfoundland .. .. .	1,423	2,091	3,167
Cyprus .. .. .	3,800	3,200	4,200
India (estimated) .. .. .	11,500	11,200	10,700
Australia .. .. .	13,532	14,658	14,413
Total .. .. .	212,000	241,000	304,000
FOREIGN COUNTRIES			
Austria .. .. .	1,292	168	131
Bulgaria (ore) .. .. .	900	40	—
Czechoslovakia .. .. .	1,661	66	(a)
Finland .. .. .	6,100	6,300	5,300
France.. .. .	332	428	(a)
Germany .. .. .	29,356	30,255	30,500
Hungary .. .. .	164	274	(a)
Italy .. .. .	431	375	16
Norway .. .. .	8,565	16,501	19,500
Portugal (estimated) .. .. .	3,000	2,000	2,000
Roumania .. .. .	21	12	23
Spain .. .. .	53,000	32,000	29,000
Sweden .. .. .	1,608	4,241	7,400
U.S.S.R. (Russia) (estimated) .. .. .	30,600	31,500	31,000
Yugoslavia .. .. .	27,000	17,900	33,500
Algeria .. .. .	—	34	(a)
Belgian Congo (smelter) .. .. .	118,000	53,000	65,544
French Equatorial Africa .. .. .	80	445	(a)
French West Africa .. .. .	200	—	(a)
Cuba .. .. .	13,293	5,833	7,300

(a) Information not available.

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

## PRODUCTION OF COPPER ORE (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Mexico (b) .. .. .	53,355	34,698	39,196
United States (b) .. .. .	472,210	212,599	175,170
Bolivia (exports) .. .. .	2,016	1,985	1,819
Chile .. .. .	221,000	101,600	160,000
Peru .. .. .	43,622	22,369	25,000
China (estimated) .. .. .	12	—	(a)
Formosa .. .. .	4,000	3,400	(a)
Japan (smelter) .. .. .	74,650	70,741	67,374
Korea .. .. .	800	800	(a)
Turkey .. .. .	61	—	—
Total .. .. .	1,170,000	650,000	700,000
WORLD'S TOTAL .. .. .	1,380,000	890,000	1,000,000

(a) Information not available.

(b) Amount estimated as recoverable.

METAL PRODUCTION OF COPPER  
(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	16,000	13,000	11,100
Northern Rhodesia .. .. .	8,927	67,887	104,205
Southern Rhodesia .. .. .	530	6	—
Union of South Africa .. .. .	10,063	9,239	8,236
Canada (d) .. .. .	108,842	94,199	116,228
India .. .. .	4,069	4,443	4,800
Australia .. .. .	12,936	13,307	11,238
Total	161,000	202,000	256,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	3,184	1,956	995
Belgium .. .. .	30,904	26,524	30,000
Czechoslovakia .. .. .	1,196	921	(a)
France (c) .. .. .	1,056	1,000	1,000
Germany (b) .. .. .	54,600	50,100	49,000
Hungary .. .. .	—	274	(a)
Italy .. .. .	710	420	118
Norway .. .. .	4,283	5,330	6,588
Roumania .. .. .	—	108	446
Spain .. .. .	25,327	15,310	16,025
Sweden .. .. .	2,958	3,237	6,535
U.S.S.R. (Russia) (estimated) ..	40,000	40,000	40,000
Yugoslavia .. .. .	23,967	29,683	39,721
Belgian Congo .. .. .	118,000	53,000	65,544
Mexico .. .. .	43,243	43,047	39,300
United States .. .. .	528,691	274,591	223,400
Chile .. .. .	211,849	95,976	154,021
Peru .. .. .	45,366	21,175	24,460
China .. .. .	(e) 155	298	(a)
Formosa .. .. .	1,362	1,600	(a)
Japan .. .. .	74,650	70,741	67,374
Korea .. .. .	674	683	(a)
Total ..	1,210,000	730,000	770,000
<b>WORLD'S TOTAL .. ..</b>	<b>1,370,000</b>	<b>930,000</b>	<b>1,030,000</b>

(a) Information not available.

(b) *Metallgesellschaft* figures.

(c) Includes some matte.

(d) Copper content of blister copper.

(e) Exports.

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

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc. .. .. .	3,596	3,097	495
Bars and ingots .. .. .	5,449	6,161	7,583
Scrap .. .. .	2,741	3,979	4,107
Plates, sheets, etc. .. .. .	4,945	5,878	8,566
Rods .. .. .	419	319	629
Tubes .. .. .	1,024	740	1,067
Wire .. .. .	6,470	4,142	3,718
Sulphate .. .. .	38,975	47,505	40,553
Northern Rhodesia—			
Ore and concentrates .. .. .	22,790	239	26
Bars and ingots .. .. .	4,823	72,423	103,066
South West Africa—			
Copper-lead ore and matte .. .. .	32,445	24,631	—
Union of South Africa—			
Ore and concentrates .. .. .	5,514	—	106
Bars, plates, etc. .. .. .	8,877	8,865	7,156
Canada—			
Ore, matte, etc. ( <i>Cu content</i> ) .. .. .	21,768	16,949	15,820
Blister .. .. .	16,829	9,819	6,757
Scrap .. .. .	2,289	2,628	2,173
Bars sheets, tubes, etc. .. .. .	46,966	89,698	85,736
Newfoundland ( <i>b</i> )—			
Concentrates (copper-lead) .. .. .	—	—	3,379
British India—			
Matte, etc. .. .. .	14,213	11,251	11,887
Cyprus—			
Ingots, etc. .. .. .	(c)4,000	(c)3,500	(a)
British Malaya (including re-exports)—			
Ingots, sheets, wire, etc. .. .. .	121	48	39
Hong Kong (including re-exports)—			
Copper .. .. .	1,460	1,331	990
Sulphate .. .. .	5	4	5
Australia (including re-exports)—			
Ore, etc. ( <i>Cu content</i> ) ( <i>b</i> ) .. .. .	299	95	34
Matte .. .. .	1,255	—	1,876
Blocks and ingots .. .. .	12,061	10,370	6,469
Bars, sheets, wire, etc. .. .. .	11	5	933

(a) Information not available.

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

(c) Estimated.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	72	—	—
Rough copper and scrap .. .. .	1,696	1,016	531
Bars, sheets, wire, etc. .. .. .	2,473	1,457	814
Sulphate .. .. .	204	117	5
Belgium-Luxemburg E.U.—			
Ore .. .. .	3,834	3,110	8
Rough copper and scrap .. .. .	69,122	59,452	63,199
Sheets, wire, etc. .. .. .	6,550	6,455	10,490
Sulphate .. .. .	20,509	25,782	24,530
Bulgaria—			
Ingot and scrap .. .. .	—	—	5
Czechoslovakia—			
Ore .. .. .	6,257	1,535	—
Crude, refined and scrap .. .. .	4,611	1,888	2,218
Sheets, rods, wire, etc. .. .. .	740	295	195
Denmark—			
Bars, sheets, wire, etc. .. .. .	65	48	51
Estonia—			
Scrap .. .. .	102	455	48
Finland—			
Ore .. .. .	56,898	62,096	51,801
Rough copper and scrap .. .. .	141	179	259
France—			
Ore, matte, etc. .. .. .	9,659	6,448	4,784
Ingots, alloys, etc. .. .. .	1,535	1,384	1,588
Scrap .. .. .	2,813	3,684	4,581
Bars, sheets and wire .. .. .	18,134	9,652	7,314
Sulphate .. .. .	4,965	3,752	4,499
Germany—			
Ore, including burnt cupreous pyrites .. .. .	23,275	21,455	10,783
Rough copper and alloys .. .. .	45,684	44,092	33,991
Coin and scrap .. .. .	4,118	2,412	2,453
Bars, sheets, wire, etc. .. .. .	32,539	30,729	25,601
Sulphate, including ferrous sulphate .. .. .	8,392	9,665	5,012
Hungary—			
Rough copper and scrap .. .. .	45	—	165
Bars, sheets, wire, etc. .. .. .	1,248	1,068	880
Sulphate .. .. .	1,811	229	—

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—			
Ore .. .. .	629	296	1,011
Ingots, scrap and alloys .. ..	572	467	1,142
Bars, sheets, wire, etc., and alloys	560	207	366
Sulphate .. .. .	4,543	3,777	5,640
Netherlands—			
Ingots and bars .. .. .	47	39	74
Scrap .. .. .	1,052	1,025	987
Sheets, tubes and wire .. ..	680	768	1,123
Sulphate .. .. .	11	22	35
Norway—			
Concentrates .. .. .	4,139	12,811	12,110
Cupreous pyrites .. .. .	217,099	274,363	325,473
Other ore .. .. .	1,204	65	856
Burnt cupreous pyrites .. ..	12,889	37,007	25,573
Refined copper .. .. .	3,323	4,007	5,378
Scrap, including brass .. ..	556	758	997
Sheets, tubes, wire, etc., including brass .. .. .	83	114	102
Poland—			
Precipitate and scrap .. ..	35	33	20
Pigs, bars and ingots .. ..	106	81	13
Sheets, tubes and wire .. ..	12	—	3
Sulphate .. .. .	180	162	296
Portugal—			
Ore and cupreous pyrites .. ..	235,104	199,211	281,444
Precipitate .. .. .	550	224	220
Sulphate .. .. .	70	59	43
Roumania—			
Ore .. .. .	269	8	—
Rough and scrap .. .. .	8	213	14
Spain—			
Ore—			
Not more than 2½% copper .. ..	502,912	346,611	196,339
More than 2½% copper .. ..	—	14	163
Precipitate and scrap (c) .. ..	12,476	12,512	10,334
Ingots (c) .. .. .	6,405	298	124
Sulphate .. .. .	56	57	72
Sweden—			
Ore .. .. .	533	3,885	1,635
Rough copper .. .. .	4,947	5,853	8,017
Scrap, including brass .. ..	2,693	2,370	3,659
Sheets, tubes, wire, etc. .. ..	4,577	4,667	5,050
Sulphate .. .. .	—	2	8

(a) Information not available.

(c) Including alloys.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Ore, filings and turnings .. ..	1,176	955	1,254
Bars, ingots, etc (c) .. ..	212	294	347
Scrap (c) .. ..	236	557	537
Sheets, tubes, wire, etc. (c) ..	5,383	4,086	5,439
U.S.S.R. (Russia)—			
Copper .. ..	8	13	44
Yugoslavia—			
Ore .. ..	—	10	—
Ingots and scrap .. ..	22,301	25,792	34,943
Sulphate .. ..	2	4	417
Algeria—			
Ore, matte, etc. .. ..	—	31	274
Bars, sheets and wire .. ..	117	289	803
Scrap .. ..	341	455	
Sulphate .. ..	17	44	(a)
Angola—			
Ore .. ..	—	792	495
Belgian Congo—			
Ore .. ..	2	—	5
Ingots .. ..	122,045	58,688	92,704
Copper-cobalt alloy .. ..	411	—	—
Canary Islands—			
Precipitate and scrap .. ..	26	3	(a)
Egypt (including re-exports)—			
Rough copper and scrap .. ..	432	373	572
French Equatorial Africa—			
Ore .. ..	2	—	10
Morocco—			
Scrap .. ..	63	121	159
Mozambique—			
Ore .. ..	295	1	(a)
Cuba—			
Ore .. ..	51,039	21,266	(a)
Scrap .. ..	149	167	(a)
Mexico—			
Ores, concentrates, etc. .. ..	36,426	(b)519	(b)323
Bars.. ..	42,792	19,082	27,291
United States—			
Unrefined copper (Cu content) ..	134	14,672	20,280
Refined ingots, etc. .. ..	180,980	99,087	111,434

(a) Information not available.

(b) Cu content.

(c) Including alloys.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
United States—(cont.)			
Scrap .. .. .	29,990	15,339	12,695
Sheets, rods, wire, etc. .. .. .	32,012	14,670	8,967
Sulphate .. .. .	3,210	1,845	1,227
Argentina—			
Ore .. .. .	62	29	17
Bolivia—			
Ore, etc. ( <i>Cu content</i> ) .. .. .	2,016	1,985	1,819
Chile—			
Ore and concentrates .. .. .	40,603	29,401	37,606
Precipitate .. .. .	365	115	113
Ingots .. .. .	208,394	118,805	153,853
Peru—			
Ores ( <i>Cu content</i> ) .. .. .	697	580	157
Mattes, etc. ( <i>do.</i> ) .. .. .	42	66	44
Bars ( <i>do.</i> ) .. .. .	42,874	21,716	23,782
Precipitate ( <i>do.</i> ) .. .. .	10	7	6
Venezuela—			
Ore .. .. .	—	1,310	} (a)
Rough copper .. .. .	1,772	—	
Scrap .. .. .	200	14	
China—			
Ingots and blocks .. .. .	155	16	—
Scrap .. .. .	2,607	13	20
French Indo-China—			
Ingots, sheets, wire, alloys, etc. ..	1	3	3
Scrap .. .. .	50	28	45
Formosa—			
Copper .. .. .	116	400	(a)
Japan—			
Ingots and blocks .. .. .	3,211	2,722	152
Plates, sheets and wire .. .. .	1,783	3,879	6,610
Korea—			
Ingots .. .. .	845	843	1,005
“Manchoukuo”—			
Ingots and slabs .. .. .	(a)	142	317
Scrap .. .. .	(a)	2,714	3,213
Netherlands East Indies—			
Scrap .. .. .	708	682	707
Philippine Islands—			
Scrap .. .. .	246	217	(a)
Turkey—			
Ingots, bars, sheets, wire, scrap and alloys .. .. .	361	34	(a)
Sulphate .. .. .	27	9	(a)

(a) Information not available.



## IMPORTS OF COPPER, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc. . . . .	35,643	33,145	31,916
Bars, ingots, etc.—			
Electrolytic . . . . .	73,209	90,109	65,601
Other . . . . .	53,244	53,395	72,421
Scrap . . . . .	3,595	2,536	1,447
Plates, sheets, etc. . . . .	4,071	3,072	3,853
Rods . . . . .	26,753	15,387	15,884
Tubes . . . . .	1,626	639	1,315
Wire . . . . .	4,885	1,047	762
Sulphate . . . . .	727	34	51
Irish Free State—			
Crude sheets, wire, etc. . . . .	709	598	498
Sulphate . . . . .	3,656	4,045	4,095
Kenya and Uganda—			
Sheets and wire . . . . .	42	6	28
Mauritius (total imports)—			
Bars, sheets, scrap, etc. . . . .	26	16	30
Southern Rhodesia			
Ingots, bars and rods . . . . .	10	7	15
South West Africa—			
Bars, sheets, pipes, etc. . . . .	3	4	1
Tanganyika Territory			
Sheets and wire . . . . .	40	19	37
Union of South Africa—			
Bars, ingots and slabs . . . . .	309	840	489
Plates, sheets and tubes . . . . .	458	195	396
Wire . . . . .	65	33	24
Canada—			
Precipitate . . . . .	4	9	—
Blocks, pigs and ingots . . . . .	431	118	8
Bars, sheets, wire, etc. . . . .	5,705	5,621	378
Scrap . . . . .	336	4	2
Sulphate . . . . .	2,336	2,310	2,047
West Indies (Barbados)—			
Bars and sheets . . . . .	(£441)	(£236)	(a)
British Honduras—			
Sheets and rods . . . . .	(£761)	(£459)	(£265)

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE (Cont.)			
British India (total imports)—			
Scrap .. .. .	346	116	171
Ingots, cakes, blocks, etc. .. .. .	289	130	630
Sheets, tubes, wire, etc. .. .. .	11,644	17,415	12,053
Sulphate .. .. .	815	1,061	1,256
Copper (government stores) .. .. .	655	28	393
British Malaya (total imports)—			
Ingots, sheets, wire, etc. .. .. .	421	164	182
Cyprus—			
Bars, sheets, etc. .. .. .	36	24	40
Hong Kong (total imports)—			
Copper .. .. .	1,049	899	812
Sulphate .. .. .	13	14	11
Australia—			
Blocks and ingots .. .. .	—	58	14
Bars, sheets, wire, etc. .. .. .	321	818	1,055
New Zealand—			
Bars, sheets, pipes, etc. .. .. .	448	298	441
Wire .. .. .	(£83,521)	(£30,828)	(£43,039)
Sulphate .. .. .	156	178	44
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	4,839	—	—
Rough copper and scrap .. .. .	8,776	5,718	6,964
Bars, sheets, wire, etc. .. .. .	142	65	45
Sulphate .. .. .	258	7	1
Belgium-Luxemburg E.U.—			
Ore .. .. .	48,045	56,092	57,575
Rough copper and scrap .. .. .	90,416	37,941	46,020
Sheets, wire, etc. .. .. .	1,922	1,390	1,132
Sulphate .. .. .	13	51	23
Bulgaria—			
Rough and scrap .. .. .	115	551	720
Bars, sheets, and wire .. .. .	842	618	530
Sulphate .. .. .	2,737	4,822	3,694
Czechoslovakia—			
Ore .. .. .	—	—	35
Crude, refined and scrap .. .. .	18,306	14,508	15,013
Sheets, rods, wire, etc. .. .. .	448	157	78
Denmark—			
Rough, scrap and alloys .. .. .	1,955	1,914	2,741
Bars, sheets, wire, etc. .. .. .	5,280	3,287	4,215

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Estonia—			
Ingots, sheets, tubes, etc. .. .. .	126	118	129
Sulphate .. .. .	6	7	11
Finland (total imports)—			
Rough and scrap .. .. .	200	162	151
Bars, sheets, tubes and wire .. .. .	1,681	1,681	2,016
Sulphate .. .. .	31	50	62
France—			
Ore, matte, etc. .. .. .	3,002	2,957	268
Ingots, alloys, etc. .. .. .	125,494	98,296	111,943
Scrap .. .. .	11,675	7,410	13,658
Bars, sheets and wire .. .. .	9,206	7,001	8,997
Sulphate .. .. .	32,024	42,054	41,530
Germany—			
Ore, including burnt cupreous pyrites .. .. .	419,583	234,121	237,097
Rough copper and alloys.. .. .	148,586	129,057	152,201
Coin and scrap .. .. .	24,406	17,250	17,628
Bars, sheets, wire, etc. .. .. .	542	306	181
Sulphate, including ferrous sulphate .. .. .	2,221	2,273	3,778
Greece—			
Rough copper and alloys .. .. .	16	5	5
Sheets, tubes, alloys, etc. .. .. .	1,066	604	747
Sulphate .. .. .	5,321	7,592	4,597
Hungary—			
Rough copper and scrap .. .. .	6,096	5,767	5,628
Bars, sheets, wire, etc. .. .. .	476	215	105
Sulphate .. .. .	46	1	516
Iceland—			
Bars, tubes, wire, etc. .. .. .	36	87	(a)
Italy—			
Ore .. .. .	—	1,637	94
Ingots, scrap and alloys .. .. .	52,539	52,317	60,538
Bars, sheets, wire, etc., and alloys .. .. .	3,167	2,717	2,163
Sulphate .. .. .	8,823	7,365	2,250
Latvia—			
Ingots, bars and scrap .. .. .	98	55	278
Sheets, tubes and wire .. .. .	184	325	273
Lithuania—			
Copper .. .. .	105	51	82

(a) Information not available.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Ore .. .. .	2,298	—	—
Ingots and bars .. .. .	2,986	2,747	4,297
Scrap .. .. .	330	175	154
Sheets, tubes and wire .. .. .	9,043	5,600	5,888
Sulphate .. .. .	1,455	1,788	1,831
Norway—			
Rough copper and alloys .. .. .	671	559	405
Copper-nickel matte .. .. .	3,485	4,329	7,151
Sheets, etc. .. .. .	1,143	561	586
Sulphate .. .. .	312	242	373
Poland—			
Precipitate and scrap .. .. .	364	306	652
Pigs, bars and ingots .. .. .	4,401	4,361	6,989
Sheets, tubes and wire .. .. .	444	158	116
Sulphate .. .. .	11	25	9
Portugal—			
Copper and alloys .. .. .	4,389	4,010	3,609
Sulphate .. .. .	1,036	611	963
Roumania—			
Ore .. .. .	32	—	—
Rough and scrap .. .. .	953	1,167	1,822
Sheets and wire .. .. .	1,257	699	791
Sulphate .. .. .	2,968	2,420	3,818
Spain—			
Precipitate and scrap (b) .. .. .	3,427	3,705	4,118
Ingots (b) .. .. .	97	169	176
Sheets, tubes, wire, etc. (b) .. .. .	1,252	310	403
Sulphate .. .. .	725	1,067	1,323
Sweden—			
Ore .. .. .	—	884	1,455
Rough copper .. .. .	32,390	19,349	28,524
Scrap, including brass .. .. .	740	349	331
Sheets, rods, wire, etc. .. .. .	1,249	447	449
Sulphate .. .. .	155	191	208
Switzerland—			
Ore, filings and turnings .. .. .	2,108	2,136	1,978
Bars, ingots, etc. (b) .. .. .	11,912	11,664	14,780
Scrap (b) .. .. .	596	502	963
Sheets, tubes, wire, etc. (b) .. .. .	8,477	6,547	6,564
U.S.S.R. (Russia)—			
Ingots, sheets, etc. .. .. .	24,853	11,781	7,758

(b) Including alloys.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Yugoslavia—			
Crude, scrap, coin, etc. .. ..	2,421	743	313
Bars, sheets, wire, etc. .. ..	1,340	1,135	784
Sulphate .. .. .	3,622	1,049	626
Algeria—			
Ore, matte, etc. .. .. .	17	—	} 1,665
Rough and scrap .. .. .	144	137	
Bars, sheets, wire, etc. .. ..	2,833	2,059	} 8,065
Sulphate .. .. .	7,539	6,068	
Belgian Congo—			
Bars, sheets and wire .. .. .	186	66	122
Cameroon (French)—			
Sulphate .. .. .	3	12	(a)
Canary Islands—			
Ingots, sheets, alloys, etc. ..	123	23	(a)
Sulphate .. .. .	132	260	(a)
Egypt—			
Crude and scrap (c) .. .. .	82	54	145
Bars, sheets, tubes, etc. .. ..	2,248	1,680	2,417
Sulphate .. .. .	43	42	57
Morocco—			
Sheets and wire (b) .. .. .	1,151	992	728
Sulphate .. .. .	(a)	466	237
Mozambique—			
Bars, sheets, wire and alloys ..	71	30	(a)
Tunis—			
Bars, ingots, scrap, etc. (b) ..	39	12	1
Sheets and wire (b) .. .. .	418	1,118	565
Sulphate .. .. .	314	187	142
Cuba (total imports)—			
Ingots and bars .. .. .	43	20	(a)
Sheets, tubes and wire .. .. .	278	236	(a)
Mexico—			
Ingots .. .. .	376	201	1,561
Bars, sheets, alloys, etc. .. ..	98	125	191
Sulphate .. .. .	(a)	382	644
United States—			
<i>Cu content of—</i>			
Ore .. .. .	10,527	6,257	5,559
Concentrates .. .. .	44,379	19,730	16,890
Matte, precipitate, etc... ..	656	773	1,091

(a) Information not available.

(b) Including alloys.

(c) Total imports.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
United States—(cont.)			
Unrefined .. .. .	125,826	72,182	99,813
Refined .. .. .	77,879	(c) 74,908	4,850
Scrap .. .. .	2,277	(c) 1,129	116
Sulphate .. .. .	1,180	1,476	24
Argentina—			
Ingots, sheets and bronze ..	1,981	1,557	3,255
Sulphate .. .. .	2,576	1,812	1,446
Brazil (total imports)—			
Rough, scrap, alloys, etc. ..	1,575	2,953	} (a)
Plates, sheets, alloys, etc. ..	640	948	
Tubes, pipes, wire and alloys ..	261	361	
Sulphate .. .. .	965	1,705	
Chile—			
Bars, sheets and wire .. ..	156	24	39
Sulphate .. .. .	76	—	1
Colombia—			
Ingots, sheets, alloys, etc. ..	151	227	} (a)
Wire .. .. .	339	752	
Sulphate .. .. .	25	15	
Ecuador—			
Ingots, etc... .. .	35	8	(a)
Peru—			
Bars, sheets, etc. (d) .. ..	47	33	91
Sulphate .. .. .	21	25	44
Uruguay—			
Sulphate .. .. .	79	339	211
Venezuela—			
Unwrought .. .. .	43	26	(a)
Sulphate .. .. .	15	37	(a)
China—			
Ore .. .. .	(a)	2	1,007
Ingots and blocks .. .. .	2,784	1,242	2,248
Bars, sheets, wire, etc. .. ..	1,508	1,290	1,836
Scrap .. .. .	(a)	104	141
Sulphate .. .. .	(a)	94	74
Formosa—			
Sheets, plates, wire, etc. ..	1,011	1,870	(a)

(a) Information not available.

(c) Total imports.

(d) Including brass and bronze.

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

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French Indo-China—			
Ingots, sheets, alloys, etc. ..	914	407	624
Scrap .. .. .	487	502	464
Sulphate .. .. .	7	7	8
Iraq (years ended March 31 of the year following)—			
Crude, etc. .. .. .	126	298	331
Sulphate .. .. .	16	25	26
Japan (total imports)—			
Ingots and blocks .. .. .	152	291	13,117
Korea (total imports)—			
Ingots .. .. .	31	49	84
Wire .. .. .	553	274	428
“Manchoukuo”—			
Ingots, slabs and scrap .. .. .	(a)	42	508
Sheets, plates and wire .. .. .	(a)	1,055	4,527
Netherlands East Indies—			
Crude and alloys .. .. .	78	62	37
Bars, sheets and alloys .. .. .	103	183	283
Tubes, wire and alloys .. .. .	2,112	897	1,243
Sulphate .. .. .	487	321	380
Philippine Islands—			
Ingots .. .. .	63	28	(a)
Sheets and wire .. .. .	298	254	(a)
Siam (total imports)—			
Rough copper .. .. .	48	40	18
Syria and Lebanon—			
Sheets and tubes .. .. .	548	477	925
Turkey—			
Ingots, bars, sheets, wire, scrap and alloys .. .. .	1,379	1,246	(a)
Sulphate .. .. .	437	949	(a)

(a) Information not available.

## DIAMONDS.

### PRODUCTION OF DIAMONDS

(Metric carats)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Gold Coast (exports) .. .. .	880,479	842,297	803,985
Sierra Leone .. .. .	—	749	32,017
Southern Rhodesia .. .. .	9	—	—
South West Africa .. .. .	71,532	17,944	2,374
Tanganyika Territory .. .. .	7,658	1,387	1,373
Union of South Africa .. .. .	2,119,156	798,382	506,553
British Guiana .. .. .	63,479	61,780	49,855
India .. .. .	639	1,254	2,342
Australia .. .. .	725	251	123
Total ..	3,144,000	1,724,000	1,399,000
<b>FOREIGN COUNTRIES</b>			
Angola .. .. .	351,495	367,334	373,624
Belgian Congo .. .. .	3,528,379	3,872,171	2,256,771
French Equatorial Africa .. .. .	1,258	1,644	—
Brazil (estimated)—			
Gem diamonds .. .. .	30,000	15,000	} (a)
Low grade and bort .. .. .	50,000	19,000	
Carbons .. .. .	10,000	3,000	
Netherlands East Indies .. .. .	294	274	445
Total ..	3,970,000	4,280,000	(a)
<b>WORLD'S TOTAL ..</b>	<b>7,110,000</b>	<b>6,000,000</b>	<b>(a)</b>



## EXPORTS OF DIAMONDS

*(Domestic Produce)*

Exporting Country and Description	Unit	1931	1932	1933
BRITISH EMPIRE				
Gold Coast .. .. .	Carat	880,479	842,297	803,985
Sierra Leone .. .. .	do.	—	748	26,901
South West Africa (uncut)	do.	71,532	17,946	2,376
Tanganyika Territory ..	do.	7,790	1,391	1,373
Union of South Africa—				
Uncut .. .. .	do.	1,725,185	773,965	455,811
Cut and polished .. ..	do.	43,553	45,899	62,305
British Guiana .. .. .	do.	67,287	58,581	52,253
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Precious stones, chiefly diamonds .. .. .	£	1,356,000	1,865,000	2,144,000
do. cut and polished	£	7,062,000	3,998,000	3,946,000
Czechoslovakia—				
Glaziers' diamonds ..	Carat	655,000	600,000	270,000
Netherlands (b)—				
Unpolished .. .. .	£	(a)	(a)	290,000
Polished .. .. .	£	(a)	(a)	1,637,000
Angola .. .. .	Carat	357,525	257,724	483,448
Belgian Congo—				
Precious stones, chiefly diamonds .. .. .	Carat	3,669,316	3,751,719	2,423,595
French Equatorial Africa	Carat	1,260	1,479	574
Brazil—				
Diamonds (c) .. .. .	£	24,433	6,414	(a)
Carbons (d) .. .. .	£	18,025	7,718	(a)

(a) Information not available.

(b) The exports to the U.S.A., which are stated to amount to 60% of the total exports, were as follows (carats):—

	1931	1932	1933
Cut .. .. .	59,959	40,654	48,557
Crude .. .. .	112,639	(a)	(a)
Industrial .. .. .	2,024	(a)	(a)

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

(d) The actual exports are probably very much in excess of those officially recorded.

## IMPORTS OF DIAMONDS

*(Less Re-exports)*

Importing Country and Description	Unit	1931	1932	1933
BRITISH EMPIRE				
United Kingdom .. ..	Carat	2,413,000	1,380,000	854,000
Union of South Africa— Cut and polished .. ..	Carat	598	76	198
Canada—				
Unset .. ..	£	178,123	106,891	73,587
Dust, bort, etc. .. ..	£	93,744	32,499	78,775
British Guiana .. ..	Carat	26	6	—
British India (b) .. ..	£	305,000	428,855	475,362
Ceylon .. ..	Carat	1,322	1,031	1,712
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.— Precious stones, chiefly diamonds .. ..	£	4,744,000	3,296,000	3,147,000
Czechoslovakia— Glaziers' diamonds .. ..	Carat	525,000	210,000	50,000
Netherlands—				
Unpolished .. ..	£	(a)	(a)	855,000
Polished .. ..	£	(a)	(a)	640,000
Egypt—				
Cut .. ..	Carat	1,431	1,597	2,019
United States—				
Uncut (b) .. ..	Carat	85,249	40,153	31,595
Cut and polished (b) .. ..	do.	201,998	183,103	178,937
Glaziers' diamonds (b) .. ..	do.	224,970	163,704	260,784
Dust and bort (b) .. ..	£	4,400	3,700	11,200
Peru—				
Glaziers' diamonds .. ..	£	14	6	(a)
Netherlands East Indies (d)—				
Uncut .. ..	£	5,000	2,700	400
Cut and polished .. ..	£	40,000	59,000	13,000
Philippine Islands .. ..	Carat	14,205	9,087	(a)

(a) Information not available.

(b) Total imports.

(d) Imported by parcel post and passengers.

## DIATOMACEOUS EARTH

## PRODUCTION OF DIATOMACEOUS EARTH

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Northern Ireland .. .. .	3,401	3,731	3,998
Canada .. .. .	1,437	1,336	1,597
Barbados .. .. .	10	10	10
Australia .. .. .	1,067	1,484	2,849
FOREIGN COUNTRIES			
Denmark (moler) (estimated) ..	34,000	29,000	21,000
France .. .. .	10,600	9,000	(a)
Germany (exports) .. .. .	4,908	3,945	4,483
Hungary (exports) .. .. .	1,392	1,017	1,246
Italy .. .. .	857	758	1,919
Norway (exports) .. .. .	84	113	221
Spain (estimated) .. .. .	2,200	2,200	3,300
Sweden .. .. .	621	740	640
Algeria .. .. .	10,984	10,285	10,826
Mexico .. .. .	3	—	—
United States (c) .. .. .	73,891	73,891	(b)80,300
Chile .. .. .	100	(a)	(a)
Japan .. .. .	6,701	7,032	(a)
Korea .. .. .	700	1,761	2,994
Netherlands East Indies .. ..	80	40	(a)

NOTE :—12,027 long tons of Diatomaceous earth were recorded as produced in U.S.S.R. (Russia) during year ended September, 1928—later figures are not available.

(a) Information not available.

(b) Estimated.

(c) Annual average of 3 years' production, 1930-1932.

## EXPORTS OF DIATOMACEOUS EARTH

*(Domestic Produce)*

(Long tons)

Exporting Country	1931	1932	1933
BRITISH EMPIRE			
Canada (including other natural abrasives) .. .. .	642	1,001	1,611
Union of South Africa .. .. .	68	—	—
FOREIGN COUNTRIES			
Denmark—			
Moler .. .. .	22,045	23,113	15,384
Moler bricks .. .. .	5,852	3,569	2,899
France.. .. .	1,607	1,565	1,505
Germany .. .. .	4,908	3,945	4,483
Hungary .. .. .	1,392	1,017	1,246
Italy—			
Crude .. .. .	104	78	117
Calcined, etc. .. .. .	227	53	10
Norway—			
Calcined .. .. .	84	113	221
Poland .. .. .	15	7	—
Spain (estimated) .. .. .	2,100	2,100	3,200
U.S.S.R. (Russia) .. .. .	1,052	51	18
Algeria .. .. .	10,978	9,855	10,121
Chile .. .. .	100	49	(a)

(a) Information not available.

## IMPORTS OF DIATOMACEOUS EARTH

(Less Re-exports)

(Long tons)

Importing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	17,060	19,075	20,587
Union of South Africa .. .. .	54	45	149
Canada (b) .. .. .	759	90	1,970
FOREIGN COUNTRIES			
Denmark—			
Diatomaceous earth .. .. .	646	658	345
Moler bricks .. .. .	48	—	—
Estonia .. .. .	44	18	28
Finland (total imports) .. .. .	323	143	56
France.. .. .	5,122	4,932	5,509
Germany .. .. .	7,750	7,616	4,590
Hungary .. .. .	752	649	702
Italy—			
Crude .. .. .	380	433	425
Calcined, etc. .. .. .	62	49	51
Latvia .. .. .	148	12	68
Norway .. .. .	64	499	1,766
Poland.. .. .	855	597	923
Portugal .. .. .	86	206	126
U.S.S.R. (Russia) .. .. .	86	2	—
Yugoslavia .. .. .	333	178	216
Algeria .. .. .	40	32	(a)
Egypt .. .. .	34	61	100
Tunis .. .. .	22	58	95
Cuba (total imports) .. .. .	1,270	744	(a)
Peru .. .. .	1,315	2,399	1,880

(a) Information not available.

(b) Figures incomplete, as materials are also imported under trade names. Estimated imports are:—

1932 .. 3,393 long tons

1933 .. 3,571 ..

**FELSPAR**

## PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
China stone .. .. .	42,650	45,091	33,462
Canada .. .. .	16,378	6,292	9,516
India .. .. .	334	473	677
Australia (including china stone) ..	205	1,006	2,570
FOREIGN COUNTRIES			
Czechoslovakia (c) .. .. .	30,000	30,000	(a)
Finland (exports) .. .. .	66	1,505	2,663
France .. .. .	10,500	(a)	(a)
Germany (Bavaria only) .. .. .	4,921	3,494	(a)
Italy .. .. .	4,675	5,137	(a)
Norway .. .. .	16,151	20,249	18,202
Roumania (b) .. .. .	100	670	(a)
Sweden .. .. .	32,590	23,319	(a)
Egypt .. .. .	26	176	59
United States (sales) .. .. .	147,119	104,715	(a)
Argentina .. .. .	169	363	(a)
Manchoukuo .. .. .	853	1,753	(a)

NOTE.—19,987 long tons of felspar were produced in Russia during year ended September, 1928—later figures are not available.

(a) Information not available.

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

(c) As estimated by U.S. Bureau of Mines.

EXPORTS OF FELSPAR  
(Domestic Produce)  
(Long tons)

Exporting Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom (b) .. .. .	10,868	8,345	8,658
Canada .. .. .	9,799	1,801	3,211
FOREIGN COUNTRIES			
Austria .. .. .	61	92	145
Belgium-Luxemburg E.U. .. .. .	1,656	2,471	1,736
Czechoslovakia .. .. .	6,395	5,944	6,505
Finland .. .. .	66	1,505	2,663
Germany .. .. .	18,598	16,016	19,347
Netherlands .. .. .	560	586	1,038
Norway—			
Crude .. .. .	11,061	7,787	10,837
Ground .. .. .	3,805	5,023	6,865
Sweden .. .. .	24,504	19,860	28,009

(b) Including china stone.

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

Importing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	10,251	11,057	18,382
Canada .. .. .	1,676	1,328	501
FOREIGN COUNTRIES			
Austria .. .. .	1,735	964	948
Belgium-Luxemburg E.U. .. .. .	7,926	4,287	5,025
Czechoslovakia .. .. .	1,472	1,265	1,172
Denmark .. .. .	594	772	623
Finland (total imports) .. .. .	212	111	51
Germany .. .. .	29,240	20,625	25,249
Latvia .. .. .	22	30	108
Netherlands .. .. .	2,059	2,987	3,381
Poland .. .. .	2,639	1,612	3,003
Sweden .. .. .	469	14	1,295
United States .. .. .	10,790	1,897	5,266
Chile .. .. .	15	—	(a)

(a) Information not available.

## FLUORSPAR

### PRODUCTION OF FLUORSPAR

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	19,922	15,427	28,058
Union of South Africa .. .. .	2,163	1,197	463
Canada .. .. .	36	29	65
Australia .. .. .	533	1,260	985
FOREIGN COUNTRIES			
France .. .. .	24,300	(a)	(a)
Germany—			
Bavaria .. .. .	26,357	21,569	(a)
Prussia .. .. .	12,639	7,671	10,485
Saxony .. .. .	6,827	1,274	(a)
Italy .. .. .	5,800	6,348	(a)
Norway .. .. .	620	562	499
Spain .. .. .	5,922	(b) 6,402	(a)
United States .. .. .	49,000	15,000	53,000
Mexico .. .. .	(a)	151	(a)
Argentina .. .. .	—	10	(a)
China .. .. .	8,000	(a)	(a)
Korea .. .. .	2,500	7,457	(a)

NOTE.—5,463 long tons of fluorspar were produced in U.S.S.R. (Russia) during year ended September, 1928—later figures are not available.

(a) Information not available.

(b) In addition 160 cubic metres were produced from quarries.



## EXPORTS OF FLUORSPAR

*(Domestic Produce)*

(Long tons)

Exporting Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	713	1,296	2,122
Union of South Africa .. .. .	2,820	1,297	845
FOREIGN COUNTRIES			
Austria .. .. .	6	1	7
Belgium-Luxemburg E.U. .. .. .	249	180	303
Germany .. .. .	26,316	20,051	24,513
Norway .. .. .	14	27	34

## IMPORTS OF FLUORSPAR

*(Less Re-exports)*

(Long tons)

Importing Country	1931	1932	1933
BRITISH EMPIRE			
Canada .. .. .	2,871	901	1,982
FOREIGN COUNTRIES			
Austria .. .. .	3,608	3,027	2,705
Belgium-Luxemburg E.U. .. .. .	1,417	1,783	2,130
Denmark .. .. .	895	496	866
Germany .. .. .	22	18	40
Latvia .. .. .	—	20	30
Norway .. .. .	908	439	437
Yugoslavia .. .. .	162	134	261
United States .. .. .	18,491	11,818	9,507

**FULLER'S EARTH**

## PRODUCTION OF FULLER'S EARTH

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	Not available for publication.		
India .. .. .	2,958	4,359	(a)
Australia .. .. .	45	97	45
FOREIGN COUNTRIES			
United States (sales) .. .. .	257,500	225,805	(a)
Turkey .. .. .	5,924	8,341	(a)

## EXPORTS OF FULLER'S EARTH.

Statistics of exports of fuller's earth are not available.

## IMPORTS OF FULLER'S EARTH

*(Less Re-exports)*

(Long tons)

Importing Country	1931	1932	1933
BRITISH EMPIRE			
Union of South Africa .. .. .	206	211	165
Canada .. .. .	(£11,626)	(£16,724)	(£12,210)
Ceylon .. .. .	102	60	33
Australia .. .. .	247	247	—
FOREIGN COUNTRIES			
United States—			
Crude .. .. .	121	86	15
Prepared .. .. .	3,462	3,383	3,641
Philippine Islands .. .. .	1,646	1,301	(a)

(a) Information not available.

**GOLD****PRODUCTION OF GOLD ORE***(In terms of metal)**(Fine troy ounces)*

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	—	6	57
Anglo-Egyptian Sudan .. .. .	940	700	4,400
Bechuanaland Protectorate .. .. .	1,302	2,247	5,332
Gold Coast .. .. .	261,651	278,782	305,908
Kenya .. .. .	3,169	10,987	14,142
Nigeria .. .. .	699	2,701	17,718
Northern Rhodesia .. .. .	9,364	6,349	2,588
Southern Rhodesia .. .. .	532,111	574,135	642,499
Sierra Leone .. .. .	5,700	10,500	14,484
South West Africa .. .. .	570	890	956
Swaziland .. .. .	—	365	630
Tanganyika Territory .. .. .	12,728	25,687	39,532
Uganda .. .. .	71	586	1,200
Union of South Africa .. .. .	10,877,777	11,558,532	11,013,712
Canada .. .. .	2,693,892	3,044,387	2,949,309
Newfoundland .. .. .	10,911	17,661	15,689
British Guiana .. .. .	10,183	13,926	23,352
Federated Malay States .. .. .	27,021	27,159	28,973
Unfederated Malay States .. .. .	—	289	2,131
India .. .. .	330,400	329,600	336,100
Sarawak .. .. .	5,900	8,178	18,712
Australia .. .. .	595,123	710,915	825,930
Fiji .. .. .	—	311	1,842
New Guinea (years ended June 30) .. .. .	29,858	63,485	121,913
New Zealand .. .. .	130,049	166,354	161,755
Papua .. .. .	5,859	9,904	9,850
Total .. .. .	15,550,000	16,860,000	16,560,000
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia .. .. .	5,743	6,544	(a)
France .. .. .	66,936	92,110	94,521
Germany .. .. .	4,128	2,205	(a)
Italy .. .. .	2,479	1,842	2,906
Roumania .. .. .	88,123	102,591	127,147
Hungary .. .. .	1,505	2,690	(a)
Sweden .. .. .	61,632	132,458	135,937
Yugoslavia (estimated) .. .. .	22,000	15,000	28,000
Belgian Congo .. .. .	214,601	255,271	283,081

(a) Information not available.

## PRODUCTION OF GOLD ORE (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Egypt .. .. .	—	16	
Eritrea .. .. .	225	1,897	(a)
French Equatorial Africa ..	8,729	16,814	25,077
French West Africa .. .. .	33,147	44,656	(a)
Madagascar .. .. .	8,584	11,338	(a)
Mozambique .. .. .	538	2,665	1,705
Mexico .. .. .	623,003	584,198	637,727
United States (b) .. .. .	2,224,729	2,330,126	2,152,755
Costa Rica (g) .. .. .	2,667	8,088	(a)
Guatemala .. .. .	13,146	10,332	(a)
Honduras .. .. .	15,835	16,054	17,211
Nicaragua (g) .. .. .	14,385	14,045	(a)
Salvador (g) .. .. .	13	927	(a)
Panama .. .. .	(e) 5,550	(g) 3,290	(a)
Argentina (estimated) ..	1,000	1,000	1,000
Bolivia .. .. .	26	218	30
Brazil .. .. .	126,440	115,258	110,000
Chile .. .. .	16,718	38,096	147,052
Colombia .. .. .	194,274	248,249	298,243
Dutch Guiana (crude) ..	4,613	8,964	(a)
Ecuador .. .. .	59,616	56,147	(a)
French Guiana .. .. .	47,486	48,418	(a)
Peru .. .. .	80,182	70,700	84,066
Venezuela .. .. .	71,481	91,534	95,720
China .. .. .	144,000	(a)	(a)
Formosa .. .. .	(e) 65,000	65,700	(a)
French Indo-China .. .. .	225	219	145
Japan .. .. .	430,238	401,784	433,800
Korea .. .. .	303,000	327,000	370,000
Netherlands East Indies ..	100,090	77,957	78,829
Philippine Islands .. .. .	182,008	244,298	282,336
Turkey .. .. .	220	(a)	(a)
TOTAL* .. .. .	5,200,000	5,500,000	5,800,000
WORLD'S TOTAL* .. .. .	20,800,000	22,400,000	22,400,000

\* Excluding the production of U.S.S.R. (Russia). Owing to the wide divergences in the scattered data published (mainly relative figures) it is not possible to form any reliable estimate for the years under review, but the available information indicates that the production of that country was probably within the following ranges—

1931 .. .. .	1,200,000—1,700,000	fine ounces.
1932 .. .. .	1,500,000—2,000,000	” ”
1933 .. .. .	2,200,000—2,700,000	” ”

(a) Information not available.

(b) Amount recovered.

(e) Estimated.

(g) Imports into the United States from the country indicated.

## EXPORTS OF GOLD

*(In terms of metal)**(Fine troy ounces)*

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Bullion—			
Unrefined .. .. .	408,000	298,000	212,000
Refined .. .. .	26,506,000	19,460,000	8,471,000
Coin .. .. .	1,329,000	2,520,000	888,000
Anglo-Egyptian Sudan—			
Bullion .. .. .	3,200	99,000	28,000
Gold Coast—			
Bullion .. .. .	234,000	318,000	295,000
Kenya and Uganda—			
Bullion .. .. .	6,000	17,000	21,000
Nigeria—			
Bullion .. .. .	370	2,000	16,000
Northern Rhodesia—			
Bullion .. .. .	8,300	7,100	1,400
Sierra Leone—			
Bullion .. .. .	6,000	12,000	15,000
Southern Rhodesia—			
Concentrates .. .. .	160	100	1,000
Bullion .. .. .	505,000	579,000	623,000
Antimony ore ( <i>Au content</i> )	5,000	—	—
South West Africa—			
Bullion .. .. .	500	900	1,000
Tanganyika Territory—			
Bullion .. .. .	13,000	26,700	31,000
Union of South Africa—			
Concentrates, etc. .. .. .	160	(a)	(a)
Bullion .. .. .	9,173,000	11,203,000	10,926,000
Coin .. .. .	1,629,000	215,000	297,000
Zanzibar—			
Bullion .. .. .	300	2,000	2,600
Coin .. .. .	2,000	2,000	700
Canada—			
Bullion .. .. .	2,293,000	2,348,000	2,072,000
Coin .. .. .	1,565,000	367,000	194,000
British Guiana—			
Bullion .. .. .	12,000	14,000	27,000
British Borneo (Sarawak)—			
Bullion .. .. .	9,000	8,000	17,000

(a) Information not available.

## EXPORTS OF GOLD (Cont.)

Exporting Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE (Cont.)</b>			
British India—			
Bullion—by sea .. ..	4,904,000	9,355,000	6,039,000
do. by land .. ..	15,000	3,000	10
Coin .. .. .	266,000	411,000	209,000
British Malaya—			
Bullion .. .. .	624,000	748,000	512,000
Coin .. .. .	12,000	67,000	6,000
Hong Kong—			
Bullion .. .. .	582,000	708,000	964,000
Coin .. .. .	95,000	64,000	30,000
Australia (years ended June 30)—			
Ores, etc. .. .. .	560	900	2,400
Bullion .. .. .	270,000	1,021,000	1,089,000
Coin .. .. .	2,403,000	898,000	2,120,000
New Guinea (years ended June 30)—			
Bullion .. .. .	31,000	109,000	(a)
New Zealand—			
Concentrates, sweepings, etc. .. .. .	1,300	42,000	24,000
Bullion .. .. .	124,000	156,000	163,000
Coin .. .. .	40,000	183,000	37,000
Papua (years ended June 30)—			
Bullion .. .. .	4,000	6,000	15,000
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. .. .	80,000	19,000	25,000
Coin .. .. .	45,000	51,000	150,000
Beaten, rolled or drawn ..	2,000	100	100
Belgium-Luxemburg E.U.—			
Bullion .. .. .	90,000	350,000	270,000
Beaten, rolled or drawn ..	4,000	2,400	1,800
Czechoslovakia—			
Bullion .. .. .	8,000	8,000	9,000
Coin .. .. .	40,000	68,000	97,000

(a) Information not available.

## EXPORTS OF GOLD (Cont.)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—			
Bullion and scrap .. ..	5,700,000	3,500,000	20,000,000
Coin .. .. .	350,000	1,080,000	1,800,000
Beaten, rolled or drawn ..	30,000	20,000	7,000
Germany—			
Bullion .. .. .	11,000,000	2,500,000	2,800,000
Coin .. .. .	5,000,000	2,500,000	6,400,000
Beaten or rolled .. ..	22,000	22,000	19,000
Greece—			
Bullion and coin .. ..	23,000	50,000	65,000
Hungary—			
Bullion .. .. .	40	—	—
Coin .. .. .	6,400	700	400
Italy—			
Bullion and scrap .. ..	40,000	34,000	32,000
Coin .. .. .	50	2,000	150,000
Beaten, rolled or drawn ..	150	20	800
Netherlands—			
Bullion .. .. .	2,000,000	4,000,000	(c) 7,200,000
Coin .. .. .	190,000	3,000,000	(d) 6,400,000
Norway—			
Bullion .. .. .	323,000	—	—
Coin .. .. .	—	—	165,000
Poland—			
Bullion .. .. .	450	1,190,000	380,000
Coin .. .. .	100	20,000	60,000
Spain—			
Bullion .. .. .	1,000	2,100	5,700
Coin .. .. .	230,000	—	6,200
Sweden—			
Bullion .. .. .	260,000	2,000	1,500
Coin .. .. .	210,000	80,000	40,000
Switzerland—			
Bullion .. .. .	133,000	1,000,000	9,000,000
Coin .. .. .	44,000	218,000	490,000
U.S.S.R. (Russia) .. ..	(b)	(b)	(b)
Belgian Congo—			
Bullion .. .. .	170,000	211,000	240,000

(b) Exports of gold are not recorded in the trade returns of the U.S.S.R. (Russia).

(c) Including 7,000 ounces exported by post, figures for which are not available for previous years.

(d) Including 20,000 ounces exported by post.

## EXPORTS OF GOLD (Cont.)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Egypt—			
Bullion .. .. .	370,000	294,000	114,000
Coin .. .. .	1,000	2,400	600
French Equatorial Africa—			
Bullion .. .. .	7,000	15,000	26,000
French West Africa—			
Bullion .. .. .	22,000	58,000	50,000
Madagascar—			
Bullion .. .. .	6,000	10,000	12,000
Costa Rica—			
Bullion .. .. .	2,000	3,000	7 000
Cuba—			
Bullion .. .. .	8,000	36,000	(a)
Dominican Republic—			
Bullion .. .. .	(a)	(a)	5,300
Mexico—			
Bullion .. .. .	445,000	515,000	278,000
Coin .. .. .	732,000	120,000	360,000
Nicaragua—			
Bullion, etc. . . . .	13,000	13,000	9,000
Concentrates .. .. .	7,000	6,000	6,000
United States—			
Ore and base bullion .. .. .	13,000	3,000	\$2,608,000
Refined bullion .. .. .	18,700,000	34,600,000	16,600,000
Coin .. .. .	3,900,000	4,600,000	900,000
Argentina—			
Bullion .. .. .	8,000,000	200,000	500,000
Brazil—			
Bullion .. .. .	290,000	150,000	(a)
Coin .. .. .	340,000	80,000	(a)
Bolivia—			
Ore .. .. .	26	218	30
Chile—			
Ore, excluding mixed ores	1,500	8,000	(a)
Bullion .. .. .	—	34,000	(a)
Colombia—			
Bullion .. .. .	310,000	50,000	(a)
Coin .. .. .	520,000	100,000	(a)
Dutch Guiana—			
Bullion .. .. .	4,000	7,000	11,000
Coin .. .. .	—	—	3,000
Ecuador—			
Ore .. .. .	60,000	47,000	(a)

(a) Information not available.



EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
French Guiana—			
Bullion .. .. .	47,000	47,000	(a)
Peru—			
Ores, concentrates, etc. ..	34,000	30,000	2,700
Bullion, etc. .. .. .	46,000	77,000	88,000
Coin .. .. .	290,000	50,000	26,000
Venezuela—			
Alluvial .. .. .	14,000	18,000	} 80,000
Bullion .. .. .	61,000	50,000	
China—			
Bullion .. .. .	500,000	1,150,000	500,000
French Indo-China—			
Bullion .. .. .	50,000	264,000	33,000
Iraq (years ended Mar. 31 of the year following)—			
Bullion, etc. .. .. .	140,000	87,000	68,000
Coin .. .. .	67,000	50,000	45,000
Japan—			
Bullion .. .. .	2,500,000	1,000,000	200,000
Coin .. .. .	7,000,000	530,000	—
Korea—			
Ore .. .. .	26,000	18,000	18,000
Bullion .. .. .	942,000	380,000	230,000
Netherlands East Indies—			
Bullion and scrap .. .. .	226,000	122,000	73,000
Coin .. .. .	210,000	20,000	60
Philippine Islands—			
Ore .. .. .	100	20	150
Bullion .. .. .	160,000	244,000	185,000
Siam—			
Bullion .. .. .	90,000	320,000	200,000
Syria and Lebanon—			
Coin .. .. .	2,500	10,000	—

(a) Information not available.

## IMPORTS OF GOLD

*(In terms of metal)**(Fine troy ounces)*

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore, etc. .. .. .	35,700	39,000	71,000
Bullion—			
Unrefined .. .. .	4,058,000	10,874,000	8,007,000
Refined .. .. .	12,733,000	13,173,000	25,900,000
Coin .. .. .	3,924,000	1,643,500	5,780,000
Gold Coast—			
Bullion .. .. .	—	10	—
Kenya and Uganda—			
Bullion .. .. .	6,400	600	4,000
Coin .. .. .	360	60	—
Nigeria—			
Bullion .. .. .	350	150	100
Southern Rhodesia—			
Coin .. .. .	36,000	200	100
Tanganyika Territory—			
Bullion .. .. .	50	—	—
Union of South Africa—			
Bullion .. .. .	200	40	1,500
Coin .. .. .	6,000	18,000	19,000
Zanzibar—			
Bullion .. .. .	200	500	50
Canada—			
Bullion, etc. .. .. .	75,000	11,000	7,000
Coin .. .. .	16,000	33,000	30,000
British Guiana—			
Bullion .. .. .	40	40	50
British West Indies—			
Trinidad and Tobago—			
Coin .. .. .	130	—	—
British India—			
Bullion— <i>by sea</i> .. .. .	250,000	130,000	107,000
do. <i>by land</i> .. .. .	100	16,000	48,000
Coin .. .. .	290,000	71,000	34,000
British Malaya—			
Bullion .. .. .	32,000	45,000	132,000
Coin .. .. .	22,000	600	6,000
Ceylon—			
Coin .. .. .	149,000	—	—

## IMPORTS OF GOLD (Cont.)

Importing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE (Cont.)</b>			
Hong Kong (total imports)—			
Bullion .. .. .	79,000	217,000	65,000
Australia (years ended June 30)—			
Ore, matte, etc. .. ..	10	700	—
Bullion, etc. .. ..	87,000	111,000	183,000
Coin .. .. .	1,000	71	100
New Zealand—			
Bullion, etc. .. ..	300	200	200
Coin .. .. .	300	—	—
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. .. .	230,000	64,000	100,000
Coin .. .. .	20,000	25,000	108,000
Beaten, rolled or drawn ..	2,000	1,500	600
Belgium-Luxemburg E.U.—			
Bullion, etc. .. ..	300,000	240,000	400,000
Beaten, rolled or drawn ..	2,200	1,600	1,400
Bulgaria—			
Bullion, etc. .. ..	300	10	3
Czechoslovakia—			
Bullion .. .. .	90,000	950,000	456,000
Coin .. .. .	1,500	6,000	20
Denmark—			
Bullion, etc. .. ..	4,000	4,000	4,000
Finland—			
Bullion .. .. .	9,000	130	150
Sheet and wire .. ..	100	200	240
France—			
Bullion and scrap .. ..	35,000,000	39,000,000	25,000,000
Coin .. .. .	4,000,000	5,700,000	8,400,000
Beaten, rolled or drawn ..	13,000	11,000	8,000
Germany—			
Ore .. .. .	20	100	3,000
Scrap .. .. .	300,000	200,000	90,000
Bullion .. .. .	3,800,000	3,000,000	3,000,000
Coin .. .. .	100,000	500,000	600,000
Beaten or rolled .. ..	900	600	20
Greece—			
Bullion and coin .. ..	100	5,100	40,000

## IMPORTS OF GOLD (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Bullion .. .. .	15,000	4,000	4,000
Coin .. .. .	28,000	24,000	45,000
Italy—			
Bullion and scrap .. .. .	350,000	213,000	3,240,000
Coin .. .. .	550,000	13,000	122,000
Beaten, rolled or drawn .. .. .	14,000	3,000	16,000
Latvia—			
Bullion .. .. .	3,000	200	} 1,200
Coin .. .. .	1,400	400	
Lithuania—			
Bullion .. .. .	500	400	400
Coin .. .. .	—	1,000	2,000
Netherlands—			
Bullion .. .. .	9,000,000	7,400,000	(b) 9,400,000
Coin .. .. .	3,000,000	5,000,000	(c) 2,600,000
Norway—			
Bullion .. .. .	400	40	159,000
Sheets and rolled .. .. .	4,000	1,400	1,600
Coin .. .. .	30	—	—
Poland—			
Bullion .. .. .	60,000	40,000	80,000
Coin .. .. .	70,000	750,000	410,000
Portugal—			
Bullion .. .. .	106,000	180,000	450,000
Roumania—			
Bullion, etc. .. .. .	3,000	4,500	800
Spain—			
Bullion .. .. .	800	700	—
Coin .. .. .	100	—	—
Sweden—			
Bullion .. .. .	12,000	14,000	250,000
Coin .. .. .	1,600	200	160,000
Switzerland—			
Bullion .. .. .	8,700,000	7,700,000	5,900,000
Coin .. .. .	2,200,000	1,700,000	1,400,000
Yugoslavia—			
Bullion .. .. .	5,000	1,200	30
Coin .. .. .	1,600	400	140
Beaten, rolled or drawn .. .. .	500	150	40

(b) Including 1,400,000 ounces imported by post figures for which are not available for previous years.

(c) Including 300,000 ounces imported by post.

## IMPORTS OF GOLD (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Bullion and coin .. ..	1,200	3,500	(a)
Egypt—			
Bullion .. .. .	14,000	600	300
Coin .. .. .	40,000	26,000	20
Morocco—			
Bullion .. .. .	200	200	1,700
Cuba—			
Bullion .. .. .	40	1	(a)
Mexico—			
Coin .. .. .	174,000	20,000	50,000
United States—			
Ore and base bullion ..	1,600,000	740,000	\$15,883,000
Refined bullion .. ..	8,100,000	12,400,000	8,600,000
Coin .. .. .	20,000,000	4,500,000	400,000
Argentina—			
Bullion .. .. .	9,000	4,000	5,000
Brazil—			
Bullion .. .. .	10	100	(a)
Coin .. .. .	400	—	(a)
Chile—			
Coin .. .. .	800	—	—
Dutch Guiana—			
Bullion .. .. .	300	300	400
Coin .. .. .	—	10	—
Venezuela—			
Bullion .. .. .	300	200	(a)
Coin .. .. .	—	2,500	(a)
China—			
Bullion .. .. .	—	1,000	1,700
Coin .. .. .	150	1,600	100
Formosa—			
Bullion and coin .. ..	20,000	30	(a)
French Indo-China—			
Bullion .. .. .	600	300	400
Drawn and rolled .. ..	400	1,300	1,000
Iraq (years ended Mar. 31 of the year following)—			
Bullion and coin .. ..	400	400	2,600
Japan—			
Bullion .. .. .	210,000	100	—
Coin .. .. .	6,000	—	—

(a) Information not available.

IMPORTS OF GOLD (*Cont.*)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Korea—			
Bullion .. .. .	518,000	140,000	35,000
Netherlands East Indies—			
Bullion and scrap .. ..	40,000	177,000	1,500
Coin .. .. .	10,000	3,000	600
Persia ( <i>b</i> )—			
Bullion .. .. .	—	40	10
Coin .. .. .	100	40	50
Philippine Islands—			
Bullion .. .. .	700	500	( <i>a</i> )
Coin .. .. .	3,000	100	( <i>a</i> )
Siam—			
Bullion .. .. .	—	10	600
Coin .. .. .	100	—	—
Turkey—			
Bullion .. .. .	140,000	40,000	( <i>a</i> )

(*a*) Information not available.

(*b*) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.

## GRAPHITE

### PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Union of South Africa ..	43	49	58
Canada (sales) .. ..	489	309	362
Ceylon (exports) .. ..	6,721	6,100	9,559
India .. .. .	7	5	—
Australia .. .. .	60	70	30
<b>FOREIGN COUNTRIES</b>			
Austria (crude) .. ..	11,869	10,431	14,537
Czechoslovakia .. ..	1,801	907	(a)
Germany (crude) .. ..	23,199	20,479	(a)
Italy .. .. .	3,986	2,898	3,149
Norway .. .. .	(c) 868	661	1,951
Madagascar .. .. .	4,613	2,691	(a)
Morocco (French zone) ..	—	236	(a)
Mexico .. .. .	3,073	2,013	2,643
Brazil (exports) .. ..	9	—	(a)
Japan .. .. .	290	487	(a)
Korea .. .. .	13,000	16,548	(b) 23,930

NOTE :—Graphite is also produced in U.S.S.R. (Russia) and the United States, but figures are not available.

(a) Information not available.

(b) Exports.

(c) Crude.

## EXPORTS OF GRAPHITE

(Domestic Produce)

(Long tons)

Exporting Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Crucibles .. .. .	2,480	1,940	2,448
Canada .. .. .	849	810	881
Ceylon .. .. .	6,721	6,100	9,559
Hong Kong (including re- exports) .. .. .	239	447	180
Australia (including foundry- black) .. .. .	22	2	17
FOREIGN COUNTRIES			
Austria .. .. .	8,862	7,931	10,469
Belgium-Luxemburg E.U.—			
Crude and ground .. .. .	50	122	119
Crucibles, etc. .. .. .	301	386	335
Czechoslovakia .. .. .	4,468	2,929	3,611
Denmark .. .. .	49	80	109
France .. .. .	2,142	978	640
Germany .. .. .	4,615	4,613	3,734
Hungary .. .. .	2	—	56
Italy .. .. .	2,652	2,188	1,914
Norway .. .. .	6	429	1,859
Poland .. .. .	30	18	—
Sweden .. .. .	5	31	23
U.S.S.R. (Russia) .. .. .	—	50	120
Yugoslavia .. .. .	136	—	1
Madagascar .. .. .	6,188	2,112	6,688
Morocco .. .. .	43	98	65
Mexico .. .. .	3,076	2,013	2,643
United States (including manufactures) .. .. .	1,061	705	816
Brazil .. .. .	9	—	(a)
Japan .. .. .	5,287	5,333	4,210
Korea .. .. .	14,478	16,320	23,930

(a) Information not available.



## IMPORTS OF GRAPHITE

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Natural .. .. .	10,205	8,905	10,633
Artificial .. .. .	118	246	244
Crucibles .. .. .	45	9	7
Irish Free State .. .. .	70	27	7
Mauritius—			
Crucibles .. .. .	(£359)	(£235)	(£254)
Southern Rhodesia .. .. .	3	3	5
Union of South Africa .. .. .	161	107	122
Canada—			
Unground .. .. .	(£288)	(£468)	(£1,049)
Ground, including manufac- tures .. .. .	(£17,394)	(£17,681)	(£15,300)
Crucibles .. .. .	(£7,216)	(£7,494)	(£5,880)
Newfoundland (years ended June 30) .. .. .	(£5)	—	(£18)
British India (total imports)—			
Graphite .. .. .	502	403	532
Crucibles .. .. .	203	138	195
Hong Kong (total imports) ..	552	481	559
Australia (including foundry- black) .. .. .	16	540	672
New Zealand—			
Graphite .. .. .	(£1,100)	(£786)	(£704)
FOREIGN COUNTRIES			
Austria .. .. .	261	208	231
Belgium-Luxemburg E.U.—			
Crude and ground .. .. .	1,287	1,065	1,062
Crucibles, etc. .. .. .	382	267	244
Bulgaria .. .. .	140	66	58
Czechoslovakia .. .. .	1,411	1,157	1,782
Denmark—			
Graphite .. .. .	673	486	550
Crucibles .. .. .	48	44	52

## IMPORTS OF GRAPHITE (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Finland (total imports) ..	51	45	119
France.. ..	3,973	2,769	3,255
Germany .. ..	10,286	7,087	9,835
Hungary .. ..	965	756	803
Italy .. ..	1,275	984	1,313
Latvia .. ..	25	32	29
Norway—			
Crucibles, etc. .. ..	30	41	42
Poland .. ..	142	131	202
Portugal .. ..	17	11	15
Roumania—			
Graphite .. ..	450	524	736
Crucibles .. ..	23	20	36
Sweden .. ..	398	438	383
U.S.S.R. (Russia) .. ..	1,662	1,210	—
Yugoslavia .. ..	1,132	655	938
Algeria .. ..	51	48	(a)
Egypt .. ..	72	53	64
Tunis—			
Graphite .. ..	5	8	2
Crucibles .. ..	5	6	4
Mexico .. ..	75	86	56
United States .. ..	8,116	6,264	7,190
Argentina .. ..	278	406	273
Chile .. ..	15	14	(a)
Colombia .. ..	2	3	(a)
Peru .. ..	49	9	11
French Indo-China .. ..	10	9	12
Japan (total imports) ..	1,287	1,626	3,403
Netherlands East Indies ..	46	38	56
Turkey—			
Graphite .. ..	6	16	(a)
Crucibles, etc. .. ..	14	7	(a)

(a) Information not available.

## GYPSUM

### PRODUCTION OF GYPSUM

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	754,895	995,462	985,055
Union of South Africa ..	14,613	7,001	11,622
Canada .. ..	788,286	392,585	330,974
Cyprus (estimated) .. ..	15,300	12,000	(a)
Palestine .. ..	483	1,458	2,561
India .. ..	53,632	54,741	33,142
Australia .. ..	27,732	53,970	60,572
Total ..	1,655,000	1,517,000	1,440,000
<b>FOREIGN COUNTRIES</b>			
Austria (d) .. ..	47,000	35,000	(a)
Estonia .. ..	7,727	8,168	5,670
France.. ..	2,787,253	(a)	(a)
Germany (e) .. ..	482,000	392,200	(a)
Greece (b) .. ..	6,400	4,334	(a)
Italy (including alabaster) ..	578,561	521,453	525,395
Latvia (exports) .. ..	32,014	37,759	48,130
Luxemburg .. ..	9,117	9,254	12,643
Poland .. ..	24,000	(a)	(a)
Roumania (b) .. ..	52,166	39,386	(a)
Spain (g) .. ..	1,295,576	1,133,282	(a)
Sweden .. ..	49	113	(a)
Yugoslavia .. ..	823	—	927
Algeria .. ..	74,416	37,374	(a)
Belgian Congo .. ..	1,000	—	(a)
Egypt (estimated) .. ..	130,000	130,000	130,000
Morocco (French) .. ..	69,288	(a)	(a)
Tunis (estimated) .. ..	25,000	25,000	25,000
United States.. ..	2,284,837	1,210,017	1,115,211
Argentina .. ..	38,849	33,013	(a)

## PRODUCTION OF GYPSUM (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Chile .. .. .	12,965	11,800	(a)
Peru .. .. .	8,000	(a)	(a)
China .. .. .	70,400	(a)	(a)
New Caledonia .. .. .	11,365	11,719	11,380
Total (f) ..	8,050,000	(a)	(a)
WORLD'S TOTAL (f) ..	9,700,000	(a)	(a)

(a) Information not available.

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

(d) Estimated by Bundesministerium für Handel und Verkehr.

(e) Figures supplied by Deutsche Gips-Verein, E.V., Berlin to U.S. Bureau of Mines.

(f) Excluding the production of U.S.S.R. (Russia), which was recorded as 404,068 long tons during the year ended September, 1928, the latest year for which information is available.

(g) Including 407,047 and 343,028 cu. metres of gypsum also 60 and 80 cu. metres of alabaster converted as per (b) for years 1931 and 1932, respectively.

## EXPORTS OF GYPSUM

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Calcined .. .. .	7,012	8,375	10,803
Union of South Africa—			
Crude and calcined .. .	1,594	—	—
Canada—			
Crude .. .. .	552,469	332,423	256,522
Calcined .. .. .	2,755	713	566
Cyprus—			
Crude .. .. .	2,195	2,706	2,034
Calcined .. .. .	9,777	8,116	10,644
Hong Kong (including re-exports)..	1,665	1,583	1,460
Australia—			
Crude .. .. .	3,772	4,932	2,009
Calcined .. .. .	1,238	3,002	5,140
FOREIGN COUNTRIES			
Austria—			
Crude and ground .. ..	17,261	10,399	13,217
Calcined .. .. .	12,779	9,270	11,234
Belgium-Luxemburg E.U.—			
Crude .. .. .	2,586	3,955	6,500
Ground and calcined .. .	11,203	7,658	11,080
Alabaster, crude .. ..	15	—	18
Czechoslovakia—			
Crude, ground and calcined ..	83	7	8
Denmark—			
Crude and calcined .. ..	4	3	3
Estonia .. .. .	2,949	896	1,843
France—			
Crude and calcined .. ..	266,030	189,172	214,292
Germany—			
Gypsum and phosphatic gypsum	119,465	88,594	68,447
Hungary—			
Calcined .. .. .	13	6	3
Italy—			
Crude .. .. .	26,920	15,072	20,674
Calcined .. .. .	990	912	818
Alabaster, crude .. ..	696	511	511

## EXPORTS OF GYPSUM (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Latvia—			
Crude .. .. .	30,935	36,230	47,489
Ground and calcined .. .. .	1,079	1,529	641
Netherlands .. .. .	64	72	42
Poland—			
Crude .. .. .	1,936	5,877	6,515
Ground and calcined .. .. .	1,218	917	1,063
Portugal—			
Crude .. .. .	20	21	15
Roumania .. .. .	11,520	8,463	6,389
Sweden—			
Crude .. .. .	—	15	—
Calcined .. .. .	25	14	4
Switzerland—			
Ground and calcined .. .. .	135	86	104
Yugoslavia—			
Crude .. .. .	9,314	1,708	2,575
Ground and calcined .. .. .	494	478	461
Algeria .. .. .	14,461	8,059	4,181
Egypt .. .. .	16	21	—
Morocco—			
Crude .. .. .	558	374	} 378
Calcined .. .. .	37	2	
Tunis (including re-exports)—			
Calcined .. .. .	10	1,171	2,149
Mexico—			
Crude .. .. .	46,325	(a)	30,684
United States—			
Crude and ground .. .. .	4,020	3,196	3,370
Calcined and manufactures .. .. .	6,048	1,196	1,392
Argentina .. .. .	333	1,742	3,719
China .. .. .	2,934	1,612	1,575

(a) Information not available.

## IMPORTS OF GYPSUM

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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Crude, including alabaster ..	87,115	50,600	55,826
Calcined .. .. .	9,426	3,707	2,781
Irish Free State—			
Calcined .. .. .	7,857	8,361	11,956
Southern Rhodesia—			
Crude and calcined .. ..	1,752	721	268
South West Africa .. .. .	6	7	4
Union of South Africa—			
Crude and calcined .. ..	2,353	2,044	1,444
Canada—			
Crude .. .. .	432	49	16
Ground .. .. .	141	153	122
Calcined .. .. .	9,866	1,236	549
Newfoundland (years ended June 30)—			
Crude and calcined .. ..	(£406)	(£560)	(£18)
Hong Kong (total imports) ..	6,914	1,317	(£1,169)
Palestine (total imports)—			
Crude and calcined .. ..	1,828	1,297	1,031
Australia—			
Crude and calcined .. ..	541	566	851
New Zealand—			
Crude .. .. .	3,796	3,690	2,013
Calcined .. .. .	5,553	4,824	5,818
FOREIGN COUNTRIES			
Austria—			
Crude and ground .. ..	983	996	776
Calcined .. .. .	1,173	1,266	656
Belgium-Luxemburg E.U.—			
Crude .. .. .	120,204	90,226	106,354
Ground and calcined .. ..	40,289	35,237	37,812
Alabaster, crude .. .. .	145	7	27
Bulgaria—			
Crude .. .. .	504	104	—
Calcined .. .. .	205	114	56
Czechoslovakia—			
Crude and ground .. ..	15,378	7,678	7,543
Calcined .. .. .	46,218	34,511	20,163

## IMPORTS OF GYPSUM (Cont.)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Crude .. .. .	8,227	12,463	18,581
Calcined .. .. .	5,062	3,503	4,094
Estonia .. .. .	24	11	26
Finland (total imports)—			
Crude .. .. .	5,086	5,587	6,112
Calcined .. .. .	9,469	5,216	4,841
France—			
Alabaster .. .. .	107	36	55
Crude and calcined .. .. .	6,044	4,836	16,455
Germany—			
Gypsum and phosphatic gypsum ..	6,565	9,676	15,563
Greece .. .. .	333	159	119
Hungary—			
Crude .. .. .	6,065	6,482	6,946
Ground .. .. .	144	105	68
Calcined .. .. .	14,864	11,851	9,771
Iceland .. .. .	17	6	(a)
Italy—			
Crude .. .. .	865	740	1,415
Calcined .. .. .	713	493	372
Alabaster, crude .. .. .	—	28	7
Latvia—			
Crude and ground .. .. .	55	15	5
Lithuania—			
Ground and calcined .. .. .	402	251	572
Netherlands .. .. .	29,046	22,052	23,501
Norway—			
Crude .. .. .	5,450	6,903	6,639
Calcined .. .. .	1,850	2,647	2,109
Poland—			
Crude .. .. .	35	49	37
Ground and calcined .. .. .	2,361	1,867	1,529
Portugal—			
Crude .. .. .	5,022	4,861	6,335
Calcined .. .. .	508	372	327
Sweden—			
Crude .. .. .	12,019	13,026	9,349
Calcined .. .. .	6,147	5,472	3,636
Switzerland—			
Ground and calcined .. .. .	4,283	2,640	2,003

(a) Information not available.



## IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Yugoslavia—			
Crude .. .. .	17	—	—
Ground and calcined .. .. .	574	200	149
Algeria—			
Alabaster .. .. .	18	17	(a)
Calcined .. .. .	1,961	1,903	(a)
Angola—			
Calcined .. .. .	10	10	8
Egypt—			
Crude and ground .. .. .	759	838	844
Calcined .. .. .	8,316	6,798	8,864
Morocco .. .. .	9,811	9,367	3,182
Mozambique—			
Crude .. .. .	1,459	902	(a)
Calcined .. .. .	472	206	(a)
Tunis—			
Alabaster .. .. .	7	4	1
Calcined .. .. .	1,137	995	834
Cuba (total imports) .. .. .	872	385	(a)
Panama .. .. .	33	(a)	(a)
United States—			
Crude .. .. .	637,393	333,993	320,973
Ground .. .. .	4,291	1,854	1,703
Calcined .. .. .	2,170	1,048	1,051
Argentina .. .. .	1,201	534	435
Chile .. .. .	30	17	(a)
Colombia—			
Ground .. .. .	142	191	(a)
Peru—			
Crude .. .. .	7	4	12
Calcined .. .. .	11	3	7
Uruguay—			
Ground .. .. .	895	847	350
Venezuela—			
Crude .. .. .	94	92	(a)
China .. .. .	(a)	8,079	6,512
Formosa .. .. .	542	231	(a)
French Indo-China—			
Crude .. .. .	1,819	4,190	2,205
Calcined .. .. .	1,043	2,389	201
Alabaster .. .. .	3	3	—
Japan (total imports) .. .. .	9,793	7,949	7,259
Netherlands East Indies .. .. .	2,872	2,703	2,573
Philippine Islands .. .. .	3,009	3,131	(a)
Syria and Lebanon .. .. .	1,098	2,305	1,479

(a) Information not available.

## IRON AND STEEL

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

Producing Country.	Ore.			Estimated Iron Content		
	1931	1932	1933	1931	1932	1933
<b>BRITISH EMPIRE</b>						
Great Britain (b) ..	7,625,860	7,328,190	7,461,720	2,364,000	2,198,500	2,238,516
Northern Rhodesia	759	711	—	266	464	—
Southern Rhodesia	526	—	—	150	—	—
South West Africa	21,863	—	—	(a)	—	—
Sierra Leone ..	—	—	24,550	—	—	16,000
Union of South Africa	15,203	31,196	67,496	5,911	11,140	24,609
Newfoundland ..	537,210	317,858	(c)270,500	279,000	165,000	140,000
India .. ..	1,624,883	1,760,501	1,228,625	1,040,000	1,130,000	790,000
Unfederated Malay States .. ..	691,986	688,179	766,472	441,000	440,000	491,000
Australia .. ..	297,400	546,160	729,738	196,000	360,000	482,000
New Zealand ..	6,920	—	6,572	3,700	—	3,600
<b>Total ..</b>	<b>10,800,000</b>	<b>10,700,000</b>	<b>10,500,000</b>			
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	503,859	301,951	262,814	178,475	105,419	92,554
Belgium .. ..	123,833	91,344	(a)	56,000	41,000	(a)
Czechoslovakia ..	1,215,572	592,704	(a)	388,153	192,786	(a)
France .. ..	37,949,670	27,322,882	29,728,996	13,000,000	9,000,000	10,000,000
Germany .. ..	2,579,900	1,318,600	(a)	828,243	435,736	(a)
Greece .. ..	232,289	45,295	(a)	102,100	20,600	(a)
Hungary .. ..	82,706	52,029	49,230	(a)	(a)	(a)

\* For detailed figures see page 168.

(a) Information not available.

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

1931 .. ..	10,281 long tons
1932 .. ..	9,533 "
1933 .. ..	8,256 "

(c) Shipments from mines.

## PRODUCTION OF IRON ORE (Cont.)

Producing Country	Ore.			Estimated Iron Content		
	1931	1932	1933	1931	1932	1933
FOREIGN COUNTRIES —(Cont.)						
Italy .. ..	565,676	417,368	517,294	278,600	209,546	260,000
Luxemburg .. ..	4,689,671	3,161,879	3,309,312	1,434,296	983,050	1,019,480
Norway .. ..	565,807	368,002	466,379	372,232	241,044	304,476
Poland .. ..	280,157	75,901	158,124	73,000	20,000	50,000
Portugal .. ..	—	—	4,400	—	—	2,100
Roumania .. ..	60,929	7,924	13,613	27,000	3,600	6,100
Spain .. ..	3,139,818	1,732,667	1,804,505	1,480,000	790,000	830,000
Sweden .. ..	6,959,193	3,246,886	2,656,127	4,275,000	2,000,000	1,650,000
Switzerland (exports)	33,698	11,675	6,977	(a)	(a)	(a)
U.S.S.R. (Russia)	10,444,600	12,000,000	14,000,000	(a)	(a)	(a)
Yugoslavia .. ..	131,304	26,215	50,925	68,303	13,737	26,685
Algeria .. ..	886,622	459,560	751,000	440,000	239,319	375,000
Belgian Congo .. ..	19,000	—	—	(a)	—	—
Egypt .. ..	—	25	—	—	(a)	—
Morocco (Spanish)	537,855	168,479	(a)	300,000	93,000	(a)
Morocco (French)	1,000	(a)	(a)	500	(a)	(a)
Tunis .. ..	435,000	206,000	286,000	225,000	106,000	148,000
Cuba .. ..	223,218	185,248	275,197	102,700	85,200	126,600
Mexico .. ..	64,000	26,694	76,486	41,000	17,000	48,950
United States (d)	31,412,916	9,872,350	17,744,819	15,700,000	4,900,000	8,900,000
Brazil (estimated)	30,000	30,000	30,000	20,000	20,000	20,000
Chile .. ..	701,000	168,420	556,246	463,000	111,000	344,316
China .. ..	1,260,000	554,900	1,000,194	(a)	(a)	(a)
French Indo-China	—	—	404	—	—	222
Japan .. ..	204,893	223,141	(a)	(a)	(a)	(a)
"Manchoukuo" .. ..	908,077	1,025,162	1,081,065	500,000	560,000	595,000
Korea .. ..	157,000	149,022	158,000	86,000	82,000	87,000
Turkey .. ..	492	(a)	(a)	(a)	(a)	(a)
Total .. ..	106,000,000	64,000,000	77,000,000			
World's Total .. ..	117,000,000	75,000,000	88,000,000			

(a) Information not available.

(d) Including shipments of manganiferous iron ore up to 35 per cent. Mn.

## DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Producing Country	1931	1932	1933
Great Britain—			
West Coast hematite ..	709,143	551,697	632,894
Jurassic ironstones—			
Lower lias .. .. .	1,423,172	1,630,134	1,933,546
Middle lias .. .. .	2,553,020	2,148,700	1,970,585
Inferior oolite .. ..	2,850,822	2,787,011	2,723,598
Coal measure ironstones ..	72,657	149,194	94,691
Other iron ore (hematite, limonite, etc.) .. .. .	17,046	61,454	106,406
Belgium—			
Oolitic limonite and hematite .. .. .	117,101	85,222	(a)
Limonite .. .. .	6,732	6,122	(a)
France (b)—			
By phosphorus content—			
To 0.075% .. .. .	118,528	13,281	15,462
Over 0.075% to 1.7% ..	1,959,653	1,356,774	1,442,947
Over 1.7% .. .. .	35,871,489	25,758,286	28,270,587
Germany—			
Limonite (under 12% Mn)	1,313,361	653,447	}
Limonite (12–30% Mn) ..	46,505	20,292	
Hematite .. .. .	183,555	91,144	
Siderite .. .. .	940,863	483,266	
Argillaceous and carbona- ceous ironstone .. .. .	460	17	
Flux ironstone .. .. .	60,280	57,879	
Other ores .. .. .	34,876	12,555	
By phosphorus content—			
To 0.05% .. .. .	978,364	505,691	
Over 0.05 to 0.1% ..	158,114	109,017	
Over 0.1 to 0.5% ..	603,716	232,446	
Over 0.5 to 0.75% ..	244,966	174,255	
Over 0.75 to 1.0% ..	347,984	150,628	
Over 1.0% .. .. .	246,756	146,563	
Greece—			
Iron ore .. .. .	232,240	45,295	(a)
Manganiferous iron ore ..	49	—	(a)
Italy—			
Iron ore .. .. .	551,996	405,814	499,972
Manganiferous iron ore ..	13,680	11,554	17,322

(a) Information not available.

(b) Sales.

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

Producing Country	1931	1932	1933
Luxemburg—			
Siliceous iron ore .. ..	2,902,237	2,060,293	2,053,140
Calcareous iron ore .. ..	1,691,696	1,062,007	1,218,408
Ferruginous limestones ..	95,738	39,579	37,764
<i>By phosphorus content—</i>			
<i>From 0.5 to under 0.6%</i>	1,178,756	739,255	836,940
<i>From 0.6 to 0.75%</i> ..	3,510,915	2,422,624	2,472,372
Poland—			
Limonite .. .. .	28,389	7,483	15,479
Argillaceous iron ore ..	251,768	68,418	142,645
Portugal—			
Hematite .. .. .	—	—	4,400
Roumania—			
Limonite, siderite and magnetite .. ..	60,929	7,924	13,613
Sweden—			
<i>By phosphorus content—</i>			
<i>Under 0.01%</i> .. .. .	539,509	316,275	(a)
<i>0.01% to under 0.05%</i>	735,226	322,576	(a)
<i>0.05% to under 0.1%</i> ..	90,603	60,286	(a)
<i>0.1% to under 0.6%</i> ..	770,770	486,083	(a)
<i>0.6% to under 1.0%</i> ..	2,099,774	1,045,395	(a)
<i>1% and over</i> .. .. .	2,723,311	1,016,271	(a)
Algeria—			
Non-phosphoric .. .. .	851,476	459,560	751,000
Moderately phosphoric ..	35,146	—	—
Egypt—			
Magnetite .. .. .	—	25	—
United States—			
Ore containing less than 5% Mn—			
Hematite* .. .. .	29,665,475	9,621,808	16,920,672
Magnetite* .. .. .	1,105,249	162,892	396,720
Limonite .. .. .	359,960	61,739	235,297
Siderite .. .. .	818	477	499
Ore containing 5 to under 10% Mn .. .. .	217,352	9,799	178,852
Ore containing 10 to under 35% Mn .. .. .	64,062	15,635	12,779

\* Some hematite is included with magnetite.

(a) Information not available.

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

Exporting Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. ..	1,499	1,802	850
Irish Free State—			
Bog ore .. ..	746	239	762
Burnt pyrites .. ..	18,527	17,818	7,118
Canada (Bog ore) .. ..	41	643	1,584
Newfoundland (e) .. ..	974,223	470,404	194,252
British India .. ..	114	974	603
British Malaya (c) .. ..	692,178	691,636	764,735
Australia .. ..	58,494	19,553	6,555
FOREIGN COUNTRIES			
Austria .. ..	45,763	9,273	37
Belgium-Luxemburg E.U. ..	323,891	354,037	490,948
Czechoslovakia .. ..	150,587	80,968	77,887
France .. ..	12,211,245	9,901,969	10,812,074
Germany .. ..	30,832	19,880	43,404
Greece .. ..	130,228	43,010	43,994
Hungary (including burnt pyrites) .. ..	9,335	5,689	3,883
Italy .. ..	189	111	116
Netherlands .. ..	138	—	8,708
Norway .. ..	342,408	337,614	473,589
Poland .. ..	44,120	1,126	423
Roumania .. ..	15,669	4,830	12,362
Spain .. ..	1,843,298	1,289,041	1,388,869
Sweden .. ..	4,425,263	2,184,258	3,100,876
Switzerland .. ..	33,698	11,675	6,977
U.S.S.R. (Russia) .. ..	1,101,433	336,866	501,018
Yugoslavia .. ..	26,480	649	23,900
Algeria .. ..	905,916	482,179	900,867
Spanish Africa (Melilla) (c)	578,917	152,868	(a)
Tunis (c) .. ..	435,921	211,962	325,996
Cuba .. ..	114,292	35,039	179,806
Mexico .. ..	1,366	64	294
United States .. ..	435,665	83,449	155,271
Brazil .. ..	346	1,494	(a)
Chile .. ..	700,755	195,857	501,945
China .. ..	584,943	551,167	583,807
Korea .. ..	173,796	149,209	251,288
“ Manchoukuo ” .. ..	(a)	83	210

(a) Information not available.

(c) Including re-exports.

(e) Years ended 30th June.

## IMPORTS OF IRON ORE

(Less Re-exports)

(Long tons)

Importing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. ..	2,118,716	1,794,846	2,706,996
Irish Free State .. ..	130	15	1
Canada .. .. .	721,804	60,328	183,663
British India (b) .. ..	52	—	55
British Malaya (b) .. ..	—	7	8
FOREIGN COUNTRIES			
Austria .. .. .	624	679	463
Belgium-Luxemburg E.U. ..	10,499,951	9,332,658	9,667,052
Bulgaria .. .. .	—	15	—
Czechoslovakia .. .. .	1,290,176	179,762	179,543
Denmark .. .. .	107	21	51
Finland (b) .. .. .	41	637	893
France .. .. .	769,331	329,638	551,714
Germany .. .. .	6,959,168	3,397,095	4,499,438
Hungary (including burnt pyrites) .. .. .	177,848	81,850	103,868
Italy .. .. .	156,913	91,110	234,764
Netherlands .. .. .	460,890	391,021	451,744
Norway .. .. .	2,324	1,888	7,605
Poland .. .. .	257,983	59,683	142,284
Roumania .. .. .	322	74	292
Spain .. .. .	2,522	3,250	6,689
Sweden .. .. .	29	—	45
Switzerland (c) .. .. .	41,604	37,758	34,784
Yugoslavia .. .. .	975	29	23
Algeria .. .. .	7,791	186	(a)
Tunis .. .. .	8,539	2,399	984
United States .. .. .	1,465,613	582,498	861,144
China .. .. .	(a)	2,546	2,025
Japan (b) .. .. .	1,525,400	1,458,994	1,499,562
Korea .. .. .	3,266	29	15,153

(a) Information not available.

(b) Total imports.

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

## TOTAL IMPORTS OF IRON ORE INTO THE UNITED KINGDOM BY PORTS

(Long tons)

Port	1931	1932	1933
ENGLAND AND WALES			
North-East—			
Grimsby, including Immingham ..	107,000	73,832	216,475
Hartlepool .. .. .	302	228	—
Middlesbrough .. .. .	721,528	536,899	772,525
Newcastle, including Shields ..	207,974	155,477	192,961
Stockton .. .. .	500	—	832
Sunderland .. .. .	17,130	6,540	9,627
North-West—			
Barrow-in-Furness .. .. .	84,695	53,781	112,290
Liverpool .. .. .	59,421	65,267	85,957
Manchester .. .. .	50,698	15,089	28,592
South-West—			
Cardiff .. .. .	254,625	114,087	196,696
Newport .. .. .	1,069	462	—
Port Talbot .. .. .	275,460	377,479	505,667
Swansea .. .. .	4,850	1	—
SCOTLAND			
Ardrossan .. .. .	—	22,853	159,967
Glasgow .. .. .	87,902	83,049	71,670
Grangemouth .. .. .	60,375	117,738	142,389



PRODUCTION OF PIG-IRON AND FERRO-ALLOYS\*  
(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	3,772,600	3,574,000	4,136,000
Union of South Africa .. .. .	10,223	14,272	26,000
Canada .. .. .	466,802	160,291	257,450
India .. .. .	1,072,702	913,680	1,065,483
Australia (b) .. .. .	232,783	190,132	336,246
New Zealand .. .. .	3,460	—	3,286
Total .. .. .	5,600,000	4,900,000	5,800,000
FOREIGN COUNTRIES			
Austria .. .. .	142,726	92,974	86,560
Belgium .. .. .	3,147,285	2,705,327	2,711,056
Czechoslovakia .. .. .	1,146,331	442,997	491,000
Finland .. .. .	12,134	13,455	(a)
France—			
Saar .. .. .	1,491,495	1,328,180	1,566,586
Other districts .. .. .	8,076,526	5,449,954	6,224,340
Germany .. .. .	5,965,342	3,870,258	5,183,588
Hungary .. .. .	157,109	65,234	91,602
Italy .. .. .	544,825	487,192	557,746
Luxemburg .. .. .	2,020,672	1,929,232	1,857,727
Netherlands .. .. .	252,662	232,692	248,655
Norway .. .. .	116,960	96,156	104,337
Poland .. .. .	341,632	195,536	300,798
Roumania .. .. .	25,485	8,614	1,992
Spain .. .. .	471,646	295,870	340,232
Sweden .. .. .	410,912	277,707	341,689
U.S.S.R. (Russia) .. .. .	4,794,000	6,075,000	7,020,000
Yugoslavia .. .. .	37,138	9,815	29,238
Mexico .. .. .	52,090	20,059	26,100
United States .. .. .	18,426,354	8,781,453	13,345,602
Brazil .. .. .	37,383	32,825	50,000
China .. .. .	(a)	25,000	(a)
Japan .. .. .	919,434	1,020,304	1,440,000
Korea .. .. .	143,000	161,068	158,000
“Manchoukuo” .. .. .	329,821	375,412	462,676
Philippine Islands .. .. .	160	(a)	(a)
Total .. .. .	49,100,000	34,000,000	42,600,000
WORLD'S TOTAL .. .. .	54,700,000	38,900,000	48,400,000

\* For details see page 174.

(a) Information not available.

(b) Years ended June 30.

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

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Hematite .. .. .	879,200	793,900	1,107,500
Basic .. .. .	1,435,500	1,550,100	1,910,900
Foundry .. .. .	1,153,600	1,016,500	930,400
Forge .. .. .	174,600	133,500	101,200
Other kinds of pig-iron ..	61,400	32,600	37,100
Spiegeleisen .. .. .	9,300	19,100	500
Ferro-manganese .. .. .	57,400	25,600	44,900
Ferro-silicon .. .. .	1,600	2,700	3,300
Ferro-silicon-manganese ..	—	—	200
Union of South Africa—			
Ingots .. .. .	8,799	12,900	(a)
Castings .. .. .	1,424	1,372	(a)
Canada—			
Basic .. .. .	311,850	105,058	189,428
Foundry .. .. .	80,892	25,246	22,333
Malleable .. .. .	27,296	13,826	15,556
Ferro-alloys .. .. .	46,764	16,161	30,133
India—			
Basic .. .. .	519,814	629,653	760,808
Foundry and forge .. .. .	538,522	283,661	296,950
Ferro-manganese .. .. .	14,366	366	7,725
FOREIGN COUNTRIES			
Austria—			
Basic .. .. .	142,431	85,432	82,572
Foundry .. .. .	295	7,542	3,988
Belgium			
Basic .. .. .	2,997,086	2,619,396	} 2,711,056
Foundry, hematite .. .. .	20,324	15,423	
do. phosphoric .. .. .	110,201	58,708	
Ferro-alloys .. .. .	19,674	11,800	
Czechoslovakia—			
Open hearth .. .. .	767,007	257,431	} 491,000
Bessemer .. .. .	233,485	120,048	
Foundry .. .. .	121,193	61,755	
Spiegeleisen .. .. .	6,328	120	
Ferro-manganese .. .. .	18,318	3,643	

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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Finland			
Open hearth .. ..	2,807	1,904	} (a)
Foundry .. ..	2,121	4,743	
Ferro-silicon .. ..	7,057	6,808	
Ferro-tungsten .. ..	149		
France—			
Saar—			
Basic .. ..	1,330,075	1,239,206	1,419,209
Foundry and castings ..	161,420	88,974	130,719
Ferro-alloys, etc. ..	—	—	16,658
Other districts—			
Phosphoric (over 1% P)—			
Basic .. ..	6,260,064	4,296,206	4,877,169
Foundry .. ..	926,620	605,741	664,363
Other kinds .. ..	5,088	1,260	1,588
Semi-phosphoric (over 0·12% to 1% P)—			
Foundry .. ..	115,995	56,395	69,496
Open hearth, basic ..	20,958	27,283	26,615
Hematite (0·12% or less P)—			
Foundry .. ..	287,192	177,789	200,886
Open hearth .. ..	276,129	143,666	175,406
Bessemer .. ..	18,572	8,418	11,445
Spiegeleisen .. ..	102,564	58,398	100,497
Ferro-manganese .. ..	25,678	47,854	58,875
Ferro-silicon .. ..	24,891	20,415	24,679
Other ferro-alloys ..	12,775	6,529	13,321
Germany—			
Hematite .. ..	426,494	241,133	336,802
Basic .. ..	4,010,835	2,521,549	3,226,153
Bessemer .. ..	1,826	—	—
Foundry .. ..	363,894	189,154	451,437
Forge, etc. .. ..	19,793	5,490	—
Special pig-irons and ferro-alloys .. ..	1,142,500	912,932	1,169,196
Italy—			
Coke pig-iron .. ..	458,296	409,376	460,041
Electric .. ..	43,754	44,163	50,073
Charcoal pig-iron .. ..	295	—	—
Spiegeleisen .. ..	9,639	11,137	14,477
Ferro-manganese .. ..	9,664	10,405	14,672
Ferro-silicon .. ..	16,290	9,717	13,244

(a) Information not available.

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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—(cont.)			
Ferro-silico-manganese ..	3,274	520	3,606
Ferro-chrome .. ..	1,925	684	1,081
Ferro-tungsten .. ..	548	27	208
Other ferro-alloys .. ..	1,140	1,163	344
Luxemburg—			
Basic .. .. .	1,995,627	1,923,914	1,853,018
Foundry .. .. .	25,045	5,318	4,709
Norway—			
Electric .. .. .	12,659	13,501	22,252
Ferro-silicon .. .. .	31,292	18,409	21,743
Other ferro-alloys .. ..	73,009	64,246	60,342
Poland—			
Foundry .. .. .	35,533	27,527	32,668
Acid. . . . .	282,419	160,234	249,077
Castings .. .. .	234	32	—
Ferro-alloys .. .. .	23,446	7,743	19,053
Spain—			
Pig-iron .. .. .	465,200	291,799	332,449
Ferro-manganese .. ..	4,907	3,180	4,716
Ferro-silicon .. .. .	1,539	891	3,067
Sweden—			
Open hearth, acid .. ..	124,609	85,303	102,703
do. basic .. .. .	54,038	41,318	42,197
Bessemer, acid .. .. .	14,250	12,619	11,724
do. basic .. .. .	107,746	67,456	77,634
Foundry .. .. .	60,603	41,512	72,341
Forge .. .. .	16,132	8,188	6,892
Castings .. .. .	5,710	4,198	4,282
Ferro-manganese and spie- geleisen .. .. .	1,797	1,512	1,223
Ferro-silicon .. .. .	16,035	6,150	8,142
Ferro-silico-manganese ..	2,291	1,247	3,414
Ferro-silico-alumino- manganese .. .. .	—	98	—
Ferro-chrome .. .. .	7,622	7,850	10,826
Ferro-tungsten .. .. .	79	216	238
Ferro-molybdenum .. ..	—	40	73
U.S.S.R. (Russia)—			
Basic .. .. .	(a)	4,061,700	(a)
Foundry .. .. .	(a)	1,818,700	(a)
Special .. .. .	(a)	179,300	(a)
Ferro-alloys (electric) ..	(a)	15,300	(a)

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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
United States—			
Basic .. .. .	10,174,447	5,074,427	7,952,602
Bessemer and low phos- phorus .. .. .	4,635,648	2,220,468	3,473,855
Foundry .. .. .	2,133,939	811,484	1,055,622
Forge .. .. .	36,482	1,558	4,975
Malleable .. .. .	945,664	419,723	495,040
Other pig-iron .. .. .	31,599	22,004	18,625
Ferro-manganese and spiegeleisen .. .. .	234,808	93,644	162,764
Ferro-silicon .. .. .	211,284	124,708	154,736
Other ferro-alloys .. .. .	22,483	13,437	27,383
Japan—			
Coke pig-iron .. .. .	882,287	977,757	} 1,440,000
Refined pig-iron .. .. .	20,567	15,587	
Charcoal pig-iron .. .. .	—	1,233	
Other pig-iron .. .. .	—	220	
Ferro-manganese .. .. .	10,469	17,701	
Spiegeleisen .. .. .	419	—	
Ferro-silicon .. .. .	4,038	4,806	
Ferro-chrome .. .. .	215	1,108	
Ferro-tungsten .. .. .	31	58	
Ferro-molybdenum .. .. .	21	84	
Other ferro-alloys .. .. .	1,387	1,750	

(a) Information not available.

PRODUCTION OF STEEL INGOTS AND CASTINGS\*  
(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	5,202,600	5,261,400	7,024,000
Union of South Africa (b) ..	42,663	42,542	9,000
Canada .. ..	672,109	339,346	409,979
India .. ..	625,148	569,810	694,073
Australia (c) .. ..	228,363	221,488	392,666
Total ..	6,800,000	6,400,000	8,500,000
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	317,266	201,284	222,230
Belgium .. ..	3,056,049	2,745,719	2,698,900
Czechoslovakia .. ..	1,490,159	660,846	735,500
France—			
Saar .. ..	1,514,050	1,440,316	1,649,798
Other districts .. ..	7,698,095	5,550,957	6,427,754
Germany .. ..	8,047,129	5,535,254	7,465,916
Hungary .. ..	311,297	177,000	224,067
Italy .. ..	1,387,090	1,374,129	1,743,163
Latvia .. ..	7,075	336	1,336
Luxemburg .. ..	2,002,814	1,924,688	1,815,694
Norway .. ..	1,802	(a)	(a)
Poland .. ..	1,020,589	542,056	804,145
Roumania .. ..	111,469	101,000	142,479
Spain .. ..	635,174	523,995	464,908
Sweden .. ..	530,453	519,935	612,041
U.S.S.R. (Russia) .. ..	5,525,000	5,828,400	6,739,000
Mexico .. ..	84,162	57,215	75,000
United States.. ..	25,945,501	13,681,162	23,232,347
Brazil .. ..	28,192	47,492	(a)
China (estimated) .. ..	30,000	30,000	30,000
Japan .. ..	1,853,383	2,360,404	3,047,416
Total ..	61,600,000	43,300,000	58,200,000
WORLD'S TOTAL ..	68,400,000	49,700,000	66,700,000

\* For details see page 179.

(a) Information not available.

(b) Including rails, fishplates, etc.

(c) Years ended June 30.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS IN  
CERTAIN COUNTRIES

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ingots—			
Open hearth, acid ..	1,155,100	1,096,700	1,523,700
basic ..	3,777,400	3,905,200	5,132,200
Converter, acid .. ..	113,000	111,600	189,400
Electric .. .. .	27,800	32,200	51,400
Castings, electric .. ..	25,500	23,000	23,500
other .. .. .	103,800	92,700	103,800
Canada—			
Ingots, open hearth .. ..	612,437	308,700	378,666
electric .. ..	25,017	19,670	15,393
Castings—			
Open hearth, basic .. ..	14,741	2,616	5,017
acid .. .. .	19	—	—
Bessemer .. .. .	590	846	288
Electric .. .. .	19,305	7,514	10,615
India—			
Ingots—			
Open hearth, basic .. ..	216,246	185,290	218,007
Duplex steel (b) .. ..	405,307	380,471	472,308
Castings .. .. .	3,595	4,049	3,758
<b>FOREIGN COUNTRIES</b>			
Austria—			
Open hearth .. .. .	251,720	162,331	174,319
Electric .. .. .	65,546	38,953	47,911
Belgium—			
Ingots, open hearth .. ..	300,606	290,420	} 2,646,200
Bessemer, basic .. ..	2,693,123	2,408,747	
electric .. .. .	12,490	8,966	} 52,700
Castings, open hearth .. ..	8,759	10,826	
converter .. .. .	41,071	26,760	
Czechoslovakia—			
Ingots—			
Open hearth, acid .. ..	16,979	8,745	} 735,500
basic .. ..	1,235,102	515,994	
Bessemer, acid .. .. .	132	125	} 735,500
basic .. .. .	174,673	102,132	
Electric .. .. .	38,716	22,015	
Crucible .. .. .	14	17	

(b) Produced by preliminary refining in the Bessemer acid converter and completed in the basic open hearth furnace.

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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—(cont.)			
Castings—			
Open hearth, acid ..	4,907	3,222	} Included with ingots.
basic ..	12,051	4,568	
Bessemer, acid ..	203	142	
Electric .. ..	7,377	3,876	
Crucible .. ..	5	10	
France—			
Saar—			
Open hearth, basic ..	394,122	361,935	424,575
Bessemer .. ..	1,098,646	1,061,164	1,200,769
Electric .. ..	6,975	8,413	10,305
Castings, acid ..	3,717	1,354	1,903
basic .. ..	8,865	5,263	7,494
Electric .. ..	1,725	2,187	4,752
Other districts—			
Ingots—			
Open hearth, acid ..	25,555	9,558	28,950
basic ..	1,910,545	1,515,579	1,733,621
Bessemer, acid ..	—	—	2
basic ..	5,398,105	3,724,697	4,358,299
Crucible .. ..	7,834	4,966	5,691
Electric .. ..	134,030	134,707	159,496
Castings—			
Open hearth, acid ..	681	782	604
basic ..	115,183	87,432	71,989
Bessemer, acid ..	84,606	54,529	47,308
basic ..	2,034	1,029	1,640
Crucible .. ..	604	500	336
Electric .. ..	18,918	17,178	19,818
Germany—			
Ingots—			
Open hearth, acid ..	76,786	44,796	56,626
basic ..	4,627,736	3,566,493	4,522,585
Bessemer, basic ..	3,169,078	1,787,937	2,584,148
Crucible .. ..	5,269	4,472	} 117,848
Electric .. ..	81,304	70,149	
Castings .. ..	86,956	61,407	184,709
Hungary—			
Open hearth .. ..	289,678	161,510	205,854
Electric .. ..	21,619	15,490	18,213
Italy—			
Ingots, open hearth ..	1,196,295	1,095,378	} 1,699,529
electric .. ..	146,738	236,708	
Castings, open hearth ..	6,463	11,465	
Bessemer .. ..	381	254	} 43,634
electric .. ..	37,213	30,324	



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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Luxemburg—			
Ingots, open hearth ..	4,738	2,119	1,215
Bessemer, basic ..	1,995,288	1,919,377	1,808,071
Electric .. ..	2,788	3,192	6,408
Poland—			
Open hearth .. ..	989,256	520,888	} 804,145
Electric .. ..	14,659	13,374	
Castings .. ..	16,674	7,794	
Spain—			
Open hearth .. ..	516,404	414,073	} 464,908
Bessemer .. ..	109,363	106,329	
Electric .. ..	9,406	3,593	
Sweden—			
Open hearth .. ..	336,382	344,197	434,004
Bessemer .. ..	79,671	56,265	49,439
Crucible .. ..	265	219	397
Electric .. ..	114,135	119,254	128,201
U.S.S.R. (Russia)—			
Open hearth .. ..	(a)	4,951,500	(a)
Bessemer .. ..	(a)	771,100	(a)
Electric .. ..	(a)	99,300	(a)
Castings .. ..	(a)	6,500	(a)
United States—			
Ingots—			
Open hearth, acid ..	194,388	104,794	195,495
basic (c) ..	21,986,933	11,689,495	19,972,805
Bessemer .. ..	3,011,394	1,528,544	2,425,779
Crucible .. ..	831	241	399
Electric .. ..	235,376	141,328	299,808
Castings—			
Open hearth, acid ..	184,780	59,854	129,031
basic (c) ..	143,465	53,187	84,341
Bessemer .. ..	12,052	3,532	3,012
Crucible .. ..	716	404	282
Electric .. ..	175,566	99,783	121,395
Japan—			
Ingots—			
Open hearth .. ..	1,788,100	2,270,073	} 3,047,416
Bessemer .. ..	—	925	
Crucible .. ..	1,512	2,259	
Electric .. ..	30,857	41,201	
Castings—			
Open hearth .. ..	11,839	18,508	} 3,047,416
Electric .. ..	21,075	27,438	

(a) Information not available.

(c) Included in above is duplex steel, as follows—

1931 .. ..	945,844	long tons.
1932 .. ..	289,263	" "
1933 .. ..	386,154	" "

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

(Domestic Produce).

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Pig-iron—			
Forge and foundry .. .. .	81,644	73,862	54,029
Acid .. .. .	108,583	45,604	52,235
Basic .. .. .	42	1,544	1,722
Spiegeleisen and ferro-manganese	10,633	6,027	3,283
Ferro-silicon .. .. .	216	60	26
Other ferro-alloys .. .. .	1,298	610	692
Iron and steel ingots .. .. .	1,302	1,313	2,165
Blooms, billets and slabs—			
Iron .. .. .	112	34	277
Steel .. .. .	6,029	7,695	11,888
Special steel .. .. .	2,256	2,403	3,101
Old and scrap .. .. .	171,469	107,069	237,538
Irish Free State—			
Iron and steel ingots .. .. .	23	6	—
Old and scrap .. .. .	20,203	15,353	35,138
Canada—			
Pig-iron .. .. .	2,787	2,029	11,903
Ferro-silicon .. .. .	3,191	1,248	7,066
Other ferro-alloys .. .. .	15,504	14,400	42,034
Billets, ingots and blooms .. .. .	—	—	411
Scrap .. .. .	23,968	17,918	128,194
British India—			
Pig-iron .. .. .	318,994	248,396	372,015
Old and scrap .. .. .	87,240	76,650	101,092
British Malaya (including re-exports)—			
Pig-iron .. .. .	11	1	20
Scrap .. .. .	5,069	7,170	14,810
Hong-Kong (including re-exports)—			
Pig-iron .. .. .	386	616	1
Iron and steel scrap .. .. .	26,788	20,328	17,745
Australia—			
Pig-iron .. .. .	1,173	1,090	1,224
Ingots, blooms, slabs, etc. .. .. .	(b)51	256	—
Old and scrap .. .. .	(b)7,085	33,085	39,802

(b) Years ended June 30.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES			
Austria—			
Pig-iron .. .. .	13,381	4,227	4,119
Ferro-silicon .. .. .	2,338	900	562
Other ferro-alloys .. .. .	111	33	27
Iron ingots, blooms and bars .. .. .	3,534	1,840	479
Steel ingots, blooms and bars .. .. .	1,939	2,166	2,714
Old and scrap .. .. .	19,725	8,405	14,890
Belgium-Luxemburg E.U.—			
Pig-iron .. .. .	69,031	35,697	37,024
Crude iron ingots .. .. .	21,656	36,143	38,971
Steel ingots .. .. .	6,939	5,662	6,894
Steel blooms and billets .. .. .	483,070	504,018	300,289
Old and scrap .. .. .	189,873	119,574	269,824
Bulgaria—			
Old and scrap .. .. .	3,645	1,079	933
Czechoslovakia—			
Pig-iron—			
Foundry .. .. .	7,346	2,338	1,707
For refining or puddling .. .. .	1,781	—	—
Spiegeleisen .. .. .	415	247	720
Other ferro-alloys .. .. .	8,059	3,502	3,635
Steel ingots .. .. .	38	—	1
Billets of cast iron .. .. .	4,552	2,125	1,346
Billets, blooms and bars of puddled iron .. .. .	10,816	837	588
Old and scrap .. .. .	906	70	11
Denmark—			
Old and scrap .. .. .	50,052	70,204	79,873
Estonia—			
Pig-iron .. .. .	—	72	—
Old and scrap .. .. .	3,066	2,482	6,477
Finland—			
Pig-iron and ferro-alloys .. .. .	8,927	6,208	6,859
Old and scrap .. .. .	7	1	7
France—			
Pig-iron—			
Forged or refined .. .. .	410,279	192,584	165,438
Spiegeleisen .. .. .	6,101	1,925	4,257
Ferro-manganese .. .. .	2,262	603	1,616
Ferro-silicon .. .. .	6,904	3,814	3,512
Ferro-chrome .. .. .	375	671	1,226
Other ferro-alloys .. .. .	1,429	493	1,011

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—(cont.)			
Ingots .. .. .	73,945	15,960	7,381
Blooms and billets, forged or rolled	382,331	233,406	286,356
Tool steel .. .. .	1,354	747	1,012
Machine iron or steel .. .. .	147,401	116,869	134,317
Other special steel.. .. .	1,317	453	586
Old, filings and scrap .. .. .	348,439	291,886	314,557
Germany—			
Pig-iron .. .. .	175,233	68,837	107,272
Ferro-manganese .. .. .	14,129	18,945	18,750
Ferro-silicon .. .. .	811	503	435
Other ferro-alloys .. .. .	12,655	9,922	10,639
Rough blooms, bars, ingots, etc.	402,504	73,646	121,218
Old and scrap .. .. .	304,046	288,907	183,731
Greece—			
Old and scrap .. .. .	2,088	2,717	8,767
Hungary—			
Pig-iron .. .. .	691	1,467	868
Ingots and blooms .. .. .	33,436	8,547	9,703
Tool and special steel .. .. .	43	—	2
Old and scrap .. .. .	84	867	788
Italy—			
Pig-iron .. .. .	41	39	51
Ferro-manganese .. .. .	559	403	490
Ferro-chrome .. .. .	260	15	—
Ferro-silicon .. .. .	910	2,658	2,004
Other ferro-alloys .. .. .	961	2,586	2,285
Crude iron ingots .. .. .	1	—	—
Steel ingots .. .. .	5	9	1
Steel blooms and loops .. .. .	33	—	180
Old and scrap .. .. .	17	1	7
Netherlands—			
Pig-iron and ferro-alloys .. .. .	219,338	208,885	235,035
Ingots, blooms and billets .. .. .	6,853	1,191	3,585
Old iron and scrap .. .. .	154,359	164,300	227,907
Norway—			
Pig-iron—electric .. .. .	7,674	6,253	14,552
Ferro-chrome .. .. .	4,779	4,182	7,874
Ferro-manganese .. .. .	31,523	34,933	37,068
Ferro-silicon .. .. .	26,634	11,104	22,561
Ferro-phosphorous .. .. .	55	34	14
Other ferro-alloys .. .. .	2,267	7,513	19,436
Steel .. .. .	700	677	1,749
Old and scrap .. .. .	18,604	33,046	56,815

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Poland—			
Pig-iron .. .. .	2	2	—
Ferro-manganese .. .. .	1,587	193	2,411
Other ferro-alloys .. .. .	5	—	84
Blooms and billets .. .. .	5,201	228	9,874
Old and scrap .. .. .	2,075	559	262
Roumania—			
Pig-iron .. .. .	522	792	620
Ferro-alloys .. .. .	53	—	—
Tool steel .. .. .	—	6	—
Old and scrap .. .. .	113	407	531
Spain—			
Pig-iron .. .. .	—	1,176	364
Ferro-alloys .. .. .	—	11	25
Iron and steel scrap .. .. .	24	2	129
Sweden—			
Pig-iron .. .. .	39,836	31,047	64,037
Sponge iron .. .. .	909	928	1,460
Ferro-manganese and spiegeleisen .. .. .	669	731	939
Ferro-silicon and ferro-silico-manganese .. .. .	10,616	8,803	12,022
Ferro-chrome .. .. .	5,911	5,804	9,400
Ferro-tungsten .. .. .	24	91	193
Other ferro-alloys .. .. .	30	23	50
Steel ingots .. .. .	1,759	1,794	2,887
Steel blooms .. .. .	647	553	853
Tool steel .. .. .	541	384	387
Other special steel .. .. .	1,209	1,406	1,684
Old, filings and scrap .. .. .	2,337	770	1,461
Switzerland—			
Ferro-chrome and ferro-silicon .. .. .	3,942	1,411	1,054
Old, filings and scrap .. .. .	69,271	61,924	70,261
U.S.S.R. (Russia)—			
Pig-iron .. .. .	1,673	86	5
Steel .. .. .	14	16	21
Yugoslavia—			
Ferro-silicon .. .. .	2,122	601	1,664
Ferro-manganese .. .. .	1,210	1,186	—
Crude iron in ingots .. .. .	56	203	84
Special steel .. .. .	260	271	208
Scrap and filings .. .. .	15	335	17

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Old, filings and scrap .. ..	11,325	9,334	13,196
Canary Islands—			
Old and scrap .. ..	294	5	(a)
Egypt (including re-exports)—			
Scrap .. ..	14,311	14,107	24,361
Morocco—			
Old and scrap .. ..	1,570	3,254	4,107
Cuba—			
Old and scrap .. ..	16	106	(a)
United States—			
Pig-iron .. ..	6,719	2,324	2,750
Ferro-manganese and spiegeleisen	1,306	33	47
Ferro-tungsten, tungsten metal and wire .. ..	472	63	381
Steel ingots, slabs, blooms, billets and sheet bars .. ..	7,965	1,627	3,159
Old and scrap (including tin-plate scrap) .. ..	136,125	227,522	781,371
Argentina—			
Old and scrap .. ..	—	6	—
Chile—			
Ingots, old and scrap .. ..	6	—	(a)
China—			
Pig-iron .. ..	247,062	187,568	—
Old and scrap .. ..	(£19,648)	(£9,620)	6,951
French Indo-China—			
Pig-iron and spiegeleisen .. ..	22	39	23
Ingots, bars and billets .. ..	120	133	221
Old and scrap .. ..	659	1,234	522
Japan—			
Ingots .. ..	342	562	698
Old and scrap .. ..	8,863	12,289	8,207
Korea—			
Pig-iron .. ..	94,925	204,294	158,134
“Manchoukuo”—			
Pig-iron .. ..	(a)	363,104	483,625
Netherlands East Indies—			
Old and scrap .. ..	23,756	15,673	30,404

(a) Information not available.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Persia (b)—			
Ingots, old and scrap .. ..	1,526	65	738
Philippine Islands—			
Old and scrap .. .. .	847	425	(a)
Turkey—			
Old and scrap .. .. .	2,786	423	(a)

(b) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.

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

(Less Re-exports)

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Pig-iron—			
Forge .. .. .	498	142	93
Foundry .. .. .	109,348	29,849	37,671
Acid .. .. .	24,346	17,498	37
Basic .. .. .	149,730	87,428	55,276
Spiegeleisen and ferro-manganese	7,600	2,871	6,186
Ferro-silicon .. .. .	11,189	9,798	14,318
Other ferro-alloys .. .. .	3,767	5,031	7,692
Iron and steel ingots .. .. .	21,647	4,806	2,472
Blooms, billets, slabs—			
Iron .. .. .	103	828	657
Steel .. .. .	530,016	360,378	229,526
Special steel .. .. .	1,619	1,050	1,459
Old and scrap .. .. .	95,658	115,335	104,323
Irish Free State—			
Pig-iron .. .. .	10,169	6,073	2,581
Crude iron and steel .. .. .	196	160	100
Old and scrap .. .. .	2,937	2,363	106
Anglo-Egyptian Sudan—			
Pig-iron .. .. .	(£149)	(£149)	(£336)
Bars and billets .. .. .	1,090	674	742
Mauritius—			
Pig-iron .. .. .	51	7	68
Crude steel .. .. .	13	5	3
Northern Rhodesia—			
Pig, ingots, etc. .. .. .	45	30	51
Southern Rhodesia—			
Pig, ingots, etc. .. .. .	124	95	83
South West Africa—			
Pig-iron .. .. .	3	10	—
Union of South Africa—			
Pig-iron and steel ingots .. .. .	9,010	2,419	17,725
Ferro-silicon .. .. .	164	152	315
Ferro-manganese .. .. .	609	625	580
Other ferro-alloys .. .. .	77	68	112



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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Canada—			
Pig-iron .. .. .	7,913	4,753	2,459
Ferro-alloys .. .. .	2,791	285	467
Ingots, blooms and billets .. .. .	9,645	2,964	3,980
Scrap .. .. .	67,931	54,212	41,396
Newfoundland (years ended June 30)—			
Pig-iron .. .. .	(£1,124)	(£379)	182
British India (total imports)—			
Pig-iron .. .. .	1,283	497	1,848
Ferro-alloys .. .. .	1,502	495	1,432
Old iron .. .. .	2,303	1,132	4,313
British Malaya (total imports)—			
Pig-iron .. .. .	1,686	1,129	1,705
Scrap .. .. .	70	144	264
Ceylon—			
Pig-iron .. .. .	402	519	184
Cyprus—			
Pig-iron .. .. .	99	12	30
Hong Kong (total imports)—			
Pig-iron .. .. .	1,834	7,474	2,495
Iron and steel scrap .. .. .	20,935	20,658	13,325
Palestine (total imports)—			
Pig-iron .. .. .	78	323	1,359
Australia—			
Pig-iron .. .. .	1,053	1,989	273
Ferro-alloys .. .. .	(b)761	4,108	5,027
Ingots and billets of high grade carbon alloy steels .. .. .	(b) 21	(b) 7	151
Ingots, blooms, billets, etc. .. .. .	(b) 1,481	1,562	2,286
Scrap .. .. .	(b) (c) 68	—	105
New Zealand—			
Pig-iron .. .. .	5,158	2,249	2,567
FOREIGN COUNTRIES			
Austria—			
Pig-iron .. .. .	17,906	12,433	11,522
Ferro-silicon .. .. .	427	223	97
Other ferro-alloys .. .. .	3,259	2,098	2,944
Iron ingots, blooms and bars .. .. .	69	1	—
Steel ingots, blooms and bars .. .. .	2,146	271	260
Old and scrap .. .. .	7,117	29,144	25,568

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

(c) Excess of re-exports.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—			
Pig-iron .. .. .	296,732	206,277	211,778
Crude iron ingots .. .. .	83	66	238
Steel ingots .. .. .	801	62	189
Steel blooms and billets .. .. .	73,357	19,177	18,064
Old and scrap .. .. .	193,339	130,757	94,704
Bulgaria—			
Pig-iron .. .. .	3,180	4,055	4,388
Old and scrap .. .. .	39	87	66
Czechoslovakia—			
Pig-iron—			
Foundry .. .. .	9,973	6,479	5,363
For refining or puddling .. .. .	20,338	5,890	4,576
Spiegeleisen .. .. .	—	300	417
Other ferro-alloys .. .. .	5,798	2,895	2,747
Steel ingots .. .. .	61	5	15
Billets of cast iron .. .. .	139	198	135
Billets, blooms, bars of puddled iron .. .. .	203	303	89
Old and scrap .. .. .	28,988	20,743	16,704
Denmark—			
Pig-iron .. .. .	31,363	23,001	34,247
Ingots .. .. .	7	27	99
Ferro-alloys .. .. .	268	213	436
Old and scrap .. .. .	772	438	564
Estonia—			
Pig-iron .. .. .	728	1,645	1,441
Crude iron and steel in ingots and bars .. .. .	30	127	78
Ferro-alloys .. .. .	34	42	13
Old and scrap .. .. .	10	204	—
Finland (total imports)—			
Pig-iron .. .. .	13,496	12,064	17,496
Ferro-manganese and spiegeleisen .. .. .	198	331	314
Other ferro-alloys .. .. .	178	273	454
Old, filings and scrap .. .. .	120	27,039	3,606
France—			
Pig-iron—ordinary .. .. .	9,605	7,417	17,150
hematite .. .. .	63,002	50,243	71,265
Spiegeleisen .. .. .	14,131	3,207	2,010
Ferro-manganese .. .. .	184	3	30
Ferro-silicon .. .. .	1,416	311	444

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—(cont.)			
Ferro-chrome .. .. .	732	1,097	655
Other ferro-alloys .. .. .	190	111	202
Ingots .. .. .	1,625	1,907	2,440
Blooms and billets, rolled or forged	15,055	18,957	18,559
Tool steel .. .. .	788	606	637
Machine iron or steel .. .. .	1,408	5,076	7,734
Other special steel .. .. .	4,166	2,122	3,186
Old, filings and scrap .. .. .	58,329	94,410	115,530
Germany—			
Pig-iron .. .. .	115,623	61,639	73,552
Ferro-manganese .. .. .	2,328	2,497	1,790
Ferro-silicon .. .. .	11,315	8,646	8,174
Other ferro-alloys .. .. .	3,131	2,346	4,270
Rough blooms, ingots, bars, etc. ..	87,126	74,452	97,626
Old and scrap .. .. .	88,290	97,569	342,370
Greece—			
Pig-iron .. .. .	3,749	1,840	2,865
Hungary—			
Pig-iron .. .. .	3,846	2,206	} 3,500
Ferro-alloys .. .. .	2,255	1,203	
Ingots and blooms .. .. .	203	369	205
Tool and special steel .. .. .	351	295	408
Old and scrap .. .. .	22,213	24,729	29,242
Iceland—			
Pig-iron .. .. .	63	24	(a)
Italy—			
Pig-iron .. .. .	82,580	47,119	50,591
Spiegeleisen .. .. .	251	19	10
Ferro-chrome .. .. .	234	240	498
Ferro-manganese .. .. .	217	217	114
Other ferro-alloys .. .. .	353	308	236
Crude iron in ingots .. .. .	—	1	—
Steel ingots .. .. .	8,050	7,389	10,812
Steel blooms and loops .. .. .	6,744	15,524	22,183
Old and scrap .. .. .	603,313	466,691	620,085
Latvia—			
Pig-iron .. .. .	4,659	1,950	5,624
Iron blooms and loops .. .. .	4,208	—	—
Steel blooms and loops .. .. .	1	18	27
Old, filings and scrap .. .. .	1,203	892	1,265

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Lithuania—			
Pig-iron .. .. .	1,971	1,907	1,331
Steel blooms and billets .. .. .	816	399	690
Netherlands—			
Pig-iron and ferro-alloys .. .. .	15,971	10,335	9,069
Ingots, blooms, billets, etc. .. .. .	741	671	1,127
Old and scrap .. .. .	27,514	9,844	8,638
Norway—			
Pig-iron .. .. .	9,193	9,745	10,856
Ferro-silicon .. .. .	22	4	—
Ferro-tungsten and ferro-vanadium .. .. .	25	7	31
Steel ingots .. .. .	161	853	1,244
Alloyed steel .. .. .	366	342	273
Old and scrap .. .. .	6,357	13,089	6,213
Poland—			
Pig-iron—Foundry .. .. .	777	1,397	1,205
Refined .. .. .	710	606	629
Other .. .. .	1,172	231	256
Ferro-manganese .. .. .	2,027	64	531
Ferro-silicon .. .. .	409	51	58
Ferro-chrome .. .. .	162	129	297
Other ferro-alloys .. .. .	9	7	114
Blooms and billets .. .. .	13,964	12,614	15,457
Old and scrap .. .. .	360,941	121,037	308,044
Portugal—			
Iron and steel ingots .. .. .	6,447	8,624	8,650
Old and scrap .. .. .	435	312	413
Roumania—			
Pig-iron .. .. .	3,777	3,222	3,191
Ferro-alloys .. .. .	695	714	1,177
Ingots, blooms and billets .. .. .	35,761	32,618	62,171
Tool steel .. .. .	220	131	141
Old and scrap .. .. .	407	2,099	3,102
Spain—			
Pig-iron .. .. .	1,362	989	1,087
Ferro-manganese .. .. .	503	3	246
Ferro-silicon .. .. .	613	8	57
Other ferro-alloys .. .. .	469	299	239
Ingots and blooms .. .. .	10	5	25
Tool steel .. .. .	1,127	808	912
Special alloy-steel .. .. .	349	218	281
Old and scrap .. .. .	159,088	125,184	68,083

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Pig-iron .. .. .	58,534	38,119	45,598
Spiegeleisen and ferro-manganese-	2,791	3,282	2,277
Ferro-chrome .. .. .	421	151	564
Ferro-silicon and ferro-silico-			
manganese .. .. .	85	47	269
Ferro-tungsten .. .. .	98	87	102
Other ferro-alloys .. .. .	88	132	100
Steel ingots .. .. .	2	1	3
Tool steel .. .. .	34	42	22
Old, filings and scrap .. .. .	3,074	1,228	682
Switzerland—			
Pig-iron, steel billets, blooms, etc.	130,731	106,485	149,921
Ferro-chrome and ferro-silicon ..	1,595	1,195	1,555
Old, filings and scrap .. .. .	3,313	8,776	7,192
U.S.S.R. (Russia)—			
Pig-iron .. .. .	67,125	—	—
Ingots .. .. .	(a)	2,087	7,646
Spiegeleisen, silico-spiegel, etc. ..	317	—	—
Ferro-manganese .. .. .	—	—	1,930
Ferro-chrome .. .. .	4,088	3,890	9,469
Ferro-molybdenum .. .. .	650	582	612
Ferro-silicon .. .. .	21,418	6,016	13,703
Ferro-tungsten .. .. .	3,622	2,109	2,389
Ferro-vanadium .. .. .	339	215	143
Other ferro-alloys .. .. .	54	—	2,515
Old and scrap .. .. .	18,247	2,062	—
Yugoslavia—			
Ferro-manganese .. .. .	162	105	763
Ferro-silicon .. .. .	2	1	27
Pig-iron and other ferro-alloys ..	4,431	3,867	4,787
Iron ingots, blooms and billets ..	855	160	1,698
Crude steel .. .. .	3,668	1,697	601
Special steel .. .. .	571	829	248
Old, filings and scrap .. .. .	23,137	17,879	21,274
Algeria—			
Pig-iron .. .. .	1,834	1,631	1,778
Spiegeleisen and ferro-alloys ..	1	3	
Ingots, blooms and billets ..	134	290	
Tool and special steel .. .. .	197	93	(a)
Old, filings and scrap .. .. .	438	240	

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Canary Islands (total imports)—			
Ingots .. .. .	60	92	} (a)
Special steel .. .. .	479	—	
Old and scrap .. .. .	270	—	
Egypt—			
Pig-iron and spiegeleisen .. .. .	2,251	2,273	2,194
Ferro-alloys .. .. .	7	2	4
Steel ingots .. .. .	60	8	—
Special steel .. .. .	658	362	209
Scrap (total imports) .. .. .	198	174	643
French Equatorial Africa—			
Steel ingots and billets .. .. .	143	107	(a)
Tool steel .. .. .	1	56	(a)
French West Africa—			
Steel ingots and billets .. .. .	868	420	} (a)
Tool steel .. .. .	19	2	
Other special steel.. .. .	11	—	
Madagascar—			
Pig-iron .. .. .	28	31	} (a)
Blooms and billets .. .. .	4,260	3,097	
Tool steel .. .. .	18	25	
Morocco—			
Tool steel .. .. .	35	77	185
Scrap .. .. .	133	754	96
Tunis—			
Pig-iron .. .. .	81	41	71
Iron ingots and rough bars .. .. .	224	6	—
Steel bars, ingots and billets .. .. .	18,867	17,854	21,429
Tool steel .. .. .	33	32	55
Old and scrap .. .. .	796	1,040	1,661
Cuba (total imports)—			
Iron ingots .. .. .	272	65	(a)
United States—			
Pig-iron .. .. .	84,411	130,630	158,596
Spiegeleisen .. .. .	9,482	8,364	26,277
Ferro-manganese and other man- ganese alloys ( <i>Mn content</i> ) (b) .. .. .	17,764	14,586	32,442
Ferro-silicon (b) .. .. .	738	168	1,125
Ferro-tungsten, tungsten and alloys ( <i>W content</i> ) (b) .. .. .	46	1	6

(a) Information not available.

(b) Total imports.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
United States—(cont.)			
Ferro-chromium and chromium (b)	95	230	99
Ferro-phosphorus .. .. .	1,839	711	55
Granular iron .. .. .	210	185	619
Iron bars, slabs, blooms, etc. (b)	854	505	499
Steel ingots, blooms, etc. (b) ..	19,868	2,396	1,039
Scrap .. .. .	16,279	9,775	57,074
Mexico—			
Pig-iron .. .. .	187	18	399
Ingots .. .. .	4,496	371	(a)
Ferro-manganese .. .. .	235	49	362
Other ferro-alloys .. .. .	212	245	225
Argentina—			
Ingots .. .. .	21,474	13,172	15,645
Old and scrap .. .. .	25	—	—
Brazil—			
Pig-iron .. .. .	632	666	(a)
Filings .. .. .	49	22	(a)
Chile—			
Ingots .. .. .	2,408	880	} (a)
Ferro-alloys .. .. .	54	19	
Old iron .. .. .	30	—	
Colombia—			
Ingots and filings .. .. .	259	238	(a)
Peru—			
Pig-iron .. .. .	373	309	181
China—			
Pig-iron .. .. .	22,455	26,256	42,212
Ferro-manganese .. .. .	(a)	44	16
Tool and spring steel .. .. .	4,085	4,958	8,111
Old and scrap .. .. .	19,340	16,784	12,523
Formosa—			
Ingots, blooms and billets .. ..	3,069	3,385	(a)
Old and scrap .. .. .	70	—	(a)
French Indo-China—			
Pig-iron and ferro-alloys .. ..	1,275	745	599
Ingots, bars and billets .. ..	8,616	9,787	10,237
Tool steel .. .. .	60	14	23
Old, filings and scrap .. .. .	282	236	137

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

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Japan (total imports)—			
Pig-iron .. .. .	393,139	437,405	630,730
Ferro-manganese .. .. .	904	197	10
Other ferro-alloys .. .. .	365	375	526
Ingots, blooms, and billets .. .. .	2,196	13,024	39,121
Special steel .. .. .	1,934	3,342	6,942
Old and scrap .. .. .	290,931	550,251	996,963
Korea—			
Pig-iron .. .. .	4,085	7,224	7,169
Old and scrap .. .. .	902	1,125	3,894
“Manchoukuo”—			
Pig-iron .. .. .	(a)	127	901
Tool steel .. .. .	(a)	362	1,326
Netherlands East Indies—			
Iron ingots .. .. .	713	1,084	1,208
Old and scrap .. .. .	117	72	45
Persia (b)—			
Ingots, old and scrap .. .. .	629	186	246
Philippine Islands—			
Pig-iron .. .. .	775	675	(a)
Portuguese India—			
Crude iron and steel .. .. .	2,765	(a)	(a)
Siam—			
Pig-iron .. .. .	679	458	411
Syria and Lebanon—			
Pig-iron .. .. .	30	58	104
Turkey—			
Iron ingots and blocks .. .. .	174	3,281	} (a)
Steel ingots and blocks .. .. .	514	389	
Old and scrap .. .. .	17	1	

(a) Information not available.

(b) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.



## LEAD

## PRODUCTION OF LEAD ORE

(In terms of metal)

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	23,602	32,913	39,735
Nigeria (estimated) .. .. .	1,310	440	636
Northern Rhodesia .. .. .	—	—	73
South West Africa (b) .. .. .	14,100	5,000	—
Union of South Africa .. .. .	39	68	86
Canada (c) .. .. .	119,349	114,262	118,962
Newfoundland .. .. .	24,971	35,593	34,374
India .. .. .	89,000	78,800	96,100
Australia .. .. .	150,764	210,566	221,889
Total ..	420,000	480,000	510,000
FOREIGN COUNTRIES			
Austria .. .. .	1,646	4,735	6,209
Czechoslovakia .. .. .	4,604	4,171	(a)
Finland .. .. .	—	150	(a)
France .. .. .	6,958	3,169	4,000
Germany .. .. .	53,404	50,145	57,000
Greece .. .. .	6,043	6,821	8,100
Italy .. .. .	23,727	21,273	18,000
Norway .. .. .	867	844	806
Poland .. .. .	8,000	5,000	5,000
Portugal .. .. .	40	101	209
Roumania .. .. .	—	2,803	3,131
Spain (smelter) .. .. .	107,899	103,706	82,175
Sweden .. .. .	8,237	7,193	7,500
U.S.S.R. (Russia) .. .. .	15,800	(d)16,000	(d)20,000

(a) Information not available.

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

(c) Amount estimated as recoverable.

(d) Estimated.

PRODUCTION OF LEAD ORE (*Cont.*)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Yugoslavia .. .. .	32,584	48,681	60,146
Algeria .. .. .	5,600	2,261	384
Morocco (French) .. .. .	718	1,750	33
do. (Spanish) .. .. .	752	915	609
Tunis .. .. .	13,418	6,289	3,700
Mexico ( <i>b</i> ) .. .. .	223,199	135,231	116,818
United States ( <i>b</i> ) .. .. .	361,270	259,742	244,366
Argentina .. .. .	3,738	2,748	( <i>a</i> )
Bolivia (exports) .. .. .	6,564	5,402	7,721
Chile .. .. .	( <i>a</i> )	( <i>a</i> )	32
Guatemala .. .. .	166	164	( <i>a</i> )
Peru .. .. .	3,438	1,146	1,200
China .. .. .	3,800	3,050	( <i>a</i> )
French Indo-China .. .. .	6	—	—
Japan (smelter) .. .. .	4,006	6,313	7,600
Turkey .. .. .	2,161	( <i>a</i> )	2,200
Total ..	900,000	700,000	660,000
WORLD'S TOTAL ..	1,320,000	1,180,000	1,170,000

(*a*) Information not available.

(*b*) Amount estimated as recoverable.

METAL PRODUCTION OF LEAD  
(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	10,554	7,000	5,500
Northern Rhodesia .. .. .	—	—	73
South West Africa (d) .. .. .	2,599	1,028	402
Canada .. .. .	124,307	113,007	113,645
India .. .. .	74,785	71,202	72,045
Australia (e) .. .. .	150,436	186,356	205,264
Total .. .. .	363,000	379,000	397,000
FOREIGN COUNTRIES			
Austria .. .. .	6,020	1,955	4,552
Belgium (b) .. .. .	69,731	63,147	64,000
Czechoslovakia .. .. .	3,601	4,059	4,000
France .. .. .	29,858	12,000	7,600
Germany (c) .. .. .	118,420	104,731	130,000
Greece .. .. .	6,601	6,380	8,100
Hungary .. .. .	51	—	(a)
Italy .. .. .	24,489	30,974	24,365
Norway .. .. .	342	428	359
Poland .. .. .	31,372	11,714	11,845
Portugal .. .. .	106	107	68
Roumania .. .. .	1,293	1,907	4,018
Spain .. .. .	107,899	103,706	82,175
Sweden .. .. .	24	38	(a)

(a) Information not available.

(b) Includes base bullion as follows:—

1931 13,582 long tons.

1932 6,476 " "

(c) Includes some secondary. Figures as published by *Metallgesellschaft*, which exclude secondary, are—

1931 99,700 long tons.

1932 93,700 " "

1933 114,800 " "

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

(e) Includes base bullion as follows—

1931 17,130 long tons.

1932 51,857 " "

1933 45,871 " "

## METAL PRODUCTION OF LEAD (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
U.S.S.R. (Russia) (b) .. .. .	15,200	16,700	11,800
Yugoslavia .. .. .	7,804	8,190	6,219
Tunis .. .. .	18,810	13,860	14,638
Mexico .. .. .	173,977	135,157	117,700
United States.. .. .	371,297	248,918	245,998
Argentina .. .. .	7,493	9,100	11,900
Brazil (estimated) .. .. .	700	(a)	(a)
Peru .. .. .	2,601	4,391	1,198
French Indo-China .. .. .	6	16	18
Japan .. .. .	4,006	6,313	7,600
Korea .. .. .	93	485	(a)
Turkey .. .. .	1,204	—	—
Total .. .. .	1,000,000	780,000	760,000
WORLD'S TOTAL . . . . .	1,360,000	1,160,000	1,160,000

(a) Information not available.

(b) *Metallgesellschaft* figures.

## EXPORTS OF LEAD, ETC.

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	16,201	24,465	34,170
Pig-lead .. .. .	3,097	2,950	3,737
Sheets and pipes .. .. .	4,863	4,557	5,572
Foil .. .. .	104	166	252
White lead .. .. .	4,539	4,227	3,018
Litharge, red lead, etc. .. .. .	7,369	6,335	7,387
Nigeria—			
Ore .. .. .	1,700	1,331	798
South West Africa—			
Pig-lead .. .. .	3,654	1,059	—
Copper-lead ore and matte .. .. .	32,445	24,631	—
Union of South Africa—			
Pig, ingot and sheets .. .. .	2	3	5
Canada—			
Ore ( <i>Pb content</i> ) .. .. .	1,974	1,658	3,393
Pig-lead, etc. .. .. .	96,619	95,532	126,933
White lead .. .. .	169	4	15
Newfoundland (years ended June 30)—			
Concentrates .. .. .	29,229	41,240	43,088
British India—			
Ores .. .. .	30	—	(a)
Pig-lead, bars, etc. .. .. .	69,621	63,090	66,870
British Malaya (including re-exports)—			
Pig-lead .. .. .	154	120	96
Sheets and pipes .. .. .	10	8	4
Hong Kong (including re-exports)—			
Pig-lead .. .. .	157	388	341
Australia—			
Ores and concentrates ( <i>Pb content</i> ) .. .. .	15,872	4,126	25,975
Pig-lead .. .. .	146,682	171,054	199,403
Sheets and pipes .. .. .	109	197	168
White lead .. .. .	368	325	453

(a) Information not available.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	11	—	1
Pig-lead, scrap and alloys ..	1,979	285	1,547
Bars, sheets, rods, etc. ..	222	97	112
Red and white lead, etc. ..	1,592	1,181	1,055
Belgium-Luxemburg E.U.—			
Ore .. .. .	42	42	471
Pig-lead and scrap .. ..	38,747	39,762	34,855
Sheets, bars, pipes and wire ..	18,991	8,720	7,798
Red and white lead, etc. ..	4,981	4,004	4,660
Czechoslovakia—			
Pig-lead, ashes, scrap and alloys..	173	188	131
Sheets, pipes, etc. .. ..	12	7	59
Red and white lead, etc. ..	2	1	48
Denmark—			
Pig-lead, scrap and alloys ..	364	324	417
Sheets and pipes .. ..	13	12	27
Red lead .. .. .	17	1	2
France—			
Ore, matte and slag .. ..	10,695	5,370	11,662
Pig-lead, including argentiferous and antimonial .. .. .	880	524	572
Scrap .. .. .	675	745	1,029
Sheets, etc. .. .. .	2,981	1,487	1,554
Red and white lead, etc. ..	1,623	1,512	1,369
Germany—			
Ore .. .. .	21,923	4,757	8,205
Pig-lead, alloys and scrap ..	29,504	22,731	26,530
Sheets, pipes, wire, etc. ..	9,593	6,122	5,511
Red and white lead .. ..	9,909	7,717	8,147
Greece—			
Argentiferous lead .. .. .	4,908	—	2,974
Pig-lead .. .. .	1	6,153	3,851
Hungary—			
Pig-lead and scrap .. ..	34	4	161
Bars, sheets, pipes and wire ..	28	5	23
Red and white lead, etc. ..	63	30	2
Italy—			
Ore .. .. .	16,016	7,846	2,407
Pig-lead, scrap and alloys ..	69	27	138
Sheets, pipes, wire and alloys ..	128	163	88
Red and white lead .. ..	2,025	1,999	2,293

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Latvia—			
Red and white lead, etc. . . . .	1,224	859	742
Netherlands—			
Pig-lead and scrap . . . . .	858	994	1,664
Sheets and wire . . . . .	362	263	130
Red and white lead . . . . .	960	555	352
Norway—			
Ore . . . . .	1,143	1,543	718
Pig-lead, ashes and scrap . . . . .	268	312	548
Sheets, tubes and wire . . . . .	91	49	100
Poland—			
Ore and slag . . . . .	36	20	—
Pig-lead, bars and scrap . . . . .	20,306	5,849	145
Sheets, tubes and wire . . . . .	69	84	34
Red and white lead, etc. . . . .	626	535	469
Portugal—			
Ore . . . . .	—	2	—
Roumania—			
Ore . . . . .	2,868	14	1,870
Scrap . . . . .	25	6	98
Spain—			
Galena—non-argentiferous . . . . .	1,167	32	736
do. argentiferous . . . . .	1,207	—	—
Other ore . . . . .	825	1,448	766
Pig-lead and scrap . . . . .	81,707	77,656	76,453
Sheets, pipes and wire . . . . .	2,488	858	1,534
Sweden—			
Ore . . . . .	12,010	15,527	12,656
Pig-lead and scrap . . . . .	2,119	1,380	1,869
Sheets, pipes, wire, etc. . . . .	1	6	8
Red and white lead, etc. . . . .	2	22	1
Switzerland—			
Ores, etc. . . . .	293	780	1,033
Pig-lead, scrap, etc. . . . .	825	737	464
Sheets and pipes . . . . .	68	96	149
Red and white lead, etc. . . . .	21	4	—
Yugoslavia—			
Ore . . . . .	36,976	47,720	72,345
Pig-lead and scrap . . . . .	464	997	4,583
Plates and sheets . . . . .	6,137	5,071	—
Algeria—			
Ore . . . . .	10,699	10,377	1,722
Pig-lead and scrap . . . . .	674	399	686
Red and white lead . . . . .	34	6	(a)

(a) Information not available.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Egypt—			
Pig-lead and scrap .. ..	48	—	—
Morocco—			
Ore .. .. .	1,199	1,874	8
Scrap .. .. .	1	41	56
Spanish Africa (Melilla) (including re-exports) —			
Ore .. .. .	901	198	(a)
Tunis (including re-exports)—			
Ore .. .. .	181	1,418	1,205
Pig-lead and bars .. ..	21,077	11,760	13,354
Mexico—			
Ores, etc. .. .. .	19,716	(b)431	(b)3,607
Pig-lead, refined .. ..	190,466	82,658	78,092
Base bullion .. .. .	27,697	11,704	(a)
Pig-lead, antimonial .. ..	2,171	983	(a)
United States—			
Pig-lead, bars, etc. .. ..	19,208	20,882	20,385
Red and white lead, etc. .. ..	7,228	3,274	2,817
Bolivia—			
Ore ( <i>Pb content</i> ) .. .. .	6,564	5,402	7,721
Brazil—			
Ore .. .. .	1,128	806	(a)
Chile—			
Ores and concentrates .. ..	23	22	48
Peru—			
Ore and concentrates ( <i>Pb content</i> )	3,225	863	1,425
Pig-lead and scrap ( <i>do.</i> )	212	296	399
China—			
Ore .. .. .	1,044	194	1
Pig-lead .. .. .	68	19	35
Red and white lead, etc. .. ..	(a)	11	21
Formosa—			
Tea-lead .. .. .	5	4	(a)
French Indo-China—			
Ore, matte and slag .. ..	80	—	—
Iraq (years ended March 31 of year following)—			
Pig-lead, etc. .. .. .	16	6	4
Japan—			
Tubes .. .. .	489	510	775
Red lead .. .. .	1,503	2,423	1,705

(a) Information not available.

(b) *Pb content*.



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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Korea—			
Pig-lead .. .. .	95	442	624
Netherlands East Indies—			
Scrap .. .. .	54	281	171
Turkey—			
Ore .. .. .	5,462	24	} (a)
Pig-lead, scrap and alloys ..	38	—	
Sheets, tubes, wire and alloys ..	—	2	

(a) Information not available.

## IMPORTS OF LEAD, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore and concentrates .. ..	1,669	1,098	353
Pig-lead .. .. .	283,189	247,732	276,086
Sheets and pipes .. .. .	20,147	5,342	3,962
Foil .. .. .	21	17	6
White lead .. .. .	11,811	4,565	4,491
Litharge, red lead, etc. .. ..	4,005	2,361	2,359
Irish Free State—			
Pig-lead .. .. .	1,536	1,461	1,635
Sheets and pipes .. .. .	1,066	828	839
Red and white lead, etc. .. ..	730	757	755
Gambia—			
Sheets and bars .. .. .	1	(£51)	12
Gold Coast—			
Bars, sheets, etc. .. .. .	119	212	219
Kenya and Uganda—			
Bars and sheets .. .. .	20	18	16
Mauritius (total imports)—			
Pig-lead, sheets and pipes .. ..	14	33	17
Nigeria—			
Ore .. .. .	57	60	24
Bars and sheets .. .. .	54	71	79
Northern Rhodesia—			
Sheet and foil .. .. .	31	1	264
Sierra Leone—			
Bars and sheets .. .. .	6	10	9
Southern Rhodesia—			
Pig-lead, bars, sheets and foil .. ..	37	6	21
Red and white lead, acetate, etc. ..	71	88	
South West Africa—			
Bars, sheets and pipes .. .. .	11	4	5
Red and white lead, etc. .. .. .	5	11	10
Tanganyika—			
Bars and sheets .. .. .	3	3	11
Union of South Africa (total imports)—			
Pig-lead, bars, sheets and pipes .. ..	1,999	955	1,439
Foil .. .. .	48	11	18
Red and white lead, acetate, etc. ..	1,282	1,038	1,389

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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Canada—			
Pig-lead and scrap .. .. .	115	13	7
Bars, sheets, pipes, etc. .. .. .	310	88	47
White lead, red lead, litharge, etc.	2,504	1,362	1,174
Newfoundland (years ended June 30)—			
Bars and sheets .. .. .	(£781)	(£103)	(£250)
British India (total imports)—			
Ore .. .. .	262	273	321
Pig-lead, bars, etc. .. .. .	254	209	190
Sheets, pipes, etc. .. .. .	1,584	1,029	1,244
Lead (Government stores) .. .. .	31	3	41
Litharge, red and white lead, etc.	2,087	2,838	2,480
British Malaya (total imports)—			
Pig-lead .. .. .	370	293	180
Pipes and sheets .. .. .	77	53	61
Ceylon—			
Pig-lead .. .. .	2,508	2,045	2,020
Sheets and pipes .. .. .	37	25	40
Tea-lead .. .. .	640	776	487
Cyprus—			
Sheets and pipes .. .. .	31	21	37
Hong Kong (total imports)—			
Pig-lead .. .. .	1,501	1,468	1,484
Palestine (total imports)—			
Pig-lead, sheets, pipes, etc. .. .. .	126	127	168
Australia—			
Pig-lead .. .. .	—	—	9
Sheets and pipes .. .. .	19	60	40
White lead and lead acetate .. .. .	5	15	18
Fiji—			
Pig-lead and sheet .. .. .	13	5	7
New Zealand—			
Pig-lead and bars .. .. .	1,058	817	780
Sheets and pipes .. .. .	76	84	65
White lead .. .. .	1,166	1,016	1,078
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	842	511	—
Pig-lead, scrap and alloys .. .. .	6,077	3,039	237
Bars, sheets, rods, etc. .. .. .	44	20	5
Red and white lead, etc. .. .. .	80	40	7

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—			
Ore .. .. .	55,146	42,135	61,584
Pig-lead and scrap .. .. .	51,441	26,419	17,594
Sheets, bars, pipes and wire .. .. .	366	75	57
Red and white lead, etc. .. .. .	748	879	725
Bulgaria—			
Pig-lead, sheets, scrap, etc. .. .. .	482	781	575
Tubes, wire, etc. .. .. .	24	22	3
Red and white lead, etc. .. .. .	(b) 554	127	65
Czechoslovakia—			
Ore .. .. .	46	10	—
Pig-lead, ashes, scrap and alloys.. .. .	8,897	7,940	7,470
Sheets and plates .. .. .	4	2	—
Rods, pipes, wire, etc. .. .. .	13	7	2
Red and white lead, etc. .. .. .	849	490	215
Denmark—			
Pig-lead and scrap .. .. .	7,965	5,212	7,280
Sheets and pipes .. .. .	650	343	460
Red and white lead .. .. .	756	659	747
Estonia—			
Pig-lead and bars .. .. .	139	157	185
Sheets, pipes and wire .. .. .	47	12	25
Red and white lead, etc. .. .. .	118	145	124
Finland (total imports)—			
Pig-lead and scrap .. .. .	1,041	1,282	1,229
Sheets, pipes, wire, etc. .. .. .	739	478	697
Red and white lead, etc. .. .. .	576	423	640
France—			
Ore, matte and slag .. .. .	26,803	12,914	17,762
Pig-lead, including argentiferous and antimonial .. .. .	113,495	109,334	130,153
Scrap .. .. .	3,153	1,761	1,155
Sheets, etc. .. .. .	286	306	466
Red and white lead, etc. .. .. .	1,746	1,564	1,629
Germany—			
Ore .. .. .	48,513	66,125	103,507
Pig-lead, scrap and alloys .. .. .	63,550	49,857	47,916
Sheets, pipes, wire, etc. .. .. .	165	180	128
Red and white lead, etc. .. .. .	912	728	712
Greece—			
Lead .. .. .	1,234	1,033	728

(b) Includes zinc-white and lithopone.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Pig-lead and scrap .. ..	4,592	4,555	3,415
Bars, sheets, pipes and wire .. ..	22	7	8
Red and white lead, etc. .. ..	80	26	30
Iceland—			
Pig-lead, etc. .. ..	23	18	(a)
Red and white lead .. ..	23	24	(a)
Italy—			
Ore .. ..	12,378	15,161	17,538
Pig-lead, scrap and alloys .. ..	15,395	8,815	8,544
Sheets, pipes, wire and alloys .. ..	15	18	16
Red and white lead .. ..	384	676	723
Latvia—			
Pig-lead and scrap .. ..	1,632	1,512	1,193
Sheets, tubes and wire .. ..	59	54	151
Red and white lead, etc. .. ..	8	—	—
Lithuania—			
Pig-lead, pipes and scrap .. ..	239	111	91
Red lead, etc. .. ..	18	55	45
Netherlands—			
Ore .. ..	244	222	278
Pig-lead and scrap .. ..	23,031	18,722	21,871
Sheets and wire .. ..	4,035	3,453	3,747
Red and white lead .. ..	4,611	4,125	4,755
Norway—			
Ore .. ..	88	—	—
Pig-lead .. ..	1,727	1,877	2,196
Bars, sheets and tubes .. ..	453	639	643
Red and white lead .. ..	612	583	714
Poland—			
Ore and slag .. ..	18,725	1,615	3,708
Pig-lead, bars and scrap .. ..	79	136	158
Sheets, tubes and wire .. ..	82	34	77
Red and white lead, etc. .. ..	678	405	241
Portugal—			
Lead and alloys .. ..	2,033	2,181	2,059
Red and white lead .. ..	428	336	415
Roumania—			
Ore .. ..	4	—	—
Pig-lead .. ..	1,043	1,568	414
Bars, sheets, pipes and wire .. ..	48	81	186
Red and white lead, etc. .. ..	368	345	410

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Spain—			
Galena—non-argentiferous ..	10,283	2,711	7,328
Other ores .. .. .	7,598	4,873	3,779
Pig-lead and scrap .. ..	128	172	173
Sheets, pipes and wire .. ..	15	7	10
Sweden—			
Pig-lead and scrap .. ..	12,886	10,158	11,692
Sheets and pipes .. .. .	2,061	1,579	1,809
Red and white lead, etc. .. ..	2,773	2,298	2,177
Switzerland—			
Ores, etc. .. .. .	24	59	40
Pig-lead, scrap, etc. .. ..	14,243	14,237	13,380
Sheets, pipes, wire, etc. .. ..	679	557	669
Red and white lead, etc. .. ..	394	316	380
U.S.S.R. (Russia)—			
Pig-lead, sheets and scrap .. ..	41,284	33,245	16,146
Red lead .. .. .	176	935	257
Yugoslavia—			
Pig-lead and scrap .. ..	50	13	17
Sheets, bars, rods and wire .. ..	24	7	5
Red and white lead, etc. .. ..	457	411	335
Algeria—			
Ore and matte .. .. .	466	484	(a)
Pig-lead, bars, sheets, etc. .. ..	3,519	4,388	2,616
Red and white lead, etc. .. ..	121	175	(a)
Belgian Congo—			
Pig-lead .. .. .	1	4	—
Canary Islands (b)—			
Pig-lead, sheets, tubes, etc. .. ..	66	36	(a)
Egypt—			
Pig-lead and scrap .. ..	381	393	(b) 431
Sheets and pipes .. .. .	743	540	(b) 445
Red and white lead .. .. .	373	331	376
French Togoland—			
Pig-lead and sheets .. ..	5	3	5
Morocco—			
Pig-lead, sheets and wire .. ..	263	196	249
Mozambique—			
Bars and sheets .. .. .	15	12	(a)
Tunis—			
Ore, matte and slag .. ..	19,605	3,745	24,039
Pig-lead, bars and scrap .. ..	12	59	90
Sheets, etc. .. .. .	55	137	73
Red and white lead, etc. .. ..	29	44	32

(a) Information not available.

(b) Total imports.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Cuba (total imports)—			
Pig-lead .. .. .	74	7	(a)
Sheets, pipes and wire .. ..	44	30	(a)
Mexico—			
Pig-lead .. .. .	294	—	11
Sheets and pipes .. .. .	55	74	167
Panama—			
Pig-lead .. .. .	11	(a)	(a)
United States—			
Ore and matte ( <i>Pb content</i> ) ..	18,650	18,751	5,320
Bullion and base bullion ( <i>Pb content</i> ) .. .. .	28,857	12,020	1,417
Red and white lead, etc. .. ..	72	37	18
Pig-lead, bars and scrap ( <i>b</i> ) ..	(c) 9	(c) 39	95
Argentina—			
Ore .. .. .	5,138	4,185	3,986
Pig-lead and sheets .. .. .	5,544	678	2,326
Red and white lead .. .. .	555	380	309
Bolivia—			
Bars and sheets .. .. .	5	(a)	(a)
Brazil (total imports)—			
Pig-lead, sheets and pipes ..	4,141	5,441	(a)
Red and white lead .. .. .	366	405	(a)
Chile—			
Pig-lead .. .. .	394	654	} (a)
Bars and sheets .. .. .	243	48	
Red and white lead .. .. .	23	47	
Colombia—			
Ingots, bars, tubes and alloys ..	70	84	(a)
Red and white lead .. .. .	18	68	(a)
Ecuador—			
Pig-lead, sheets and wire ..	42	48	(a)
Peru—			
Pig-lead, sheets, etc. .. .. .	69	31	51
Uruguay—			
Pig-lead .. .. .	879	621	584
Red and white lead .. .. .	11	94	109
Venezuela—			
Pig-lead .. .. .	10	51	(a)
Red and white lead .. .. .	20	21	(a)

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

(c) *Pb content.*

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
China—			
Pig-lead .. .. .	4,867	4,818	4,472
Scrap .. .. .	(a)	130	460
Tea- and sheet-lead .. .. .	580	406	408
Pipes .. .. .	397	240	72
Red and white lead, etc. .. .. .	1,572	1,138	965
Formosa—			
Pig-lead .. .. .	34	2	} (a)
Pipes and tubes .. .. .	635	624	
Red lead, etc. .. .. .	156	175	
French Indo-China—			
Pig-lead and scrap .. .. .	151	134	177
Sheets, etc. .. .. .	31	20	16
Red and white lead .. .. .	228	178	204
Iraq (years ended March 31 of year following)—			
Pig-lead, etc. .. .. .	28	34	51
Japan (total imports)—			
Pig-lead .. .. .	52,741	54,466	65,547
Tea-lead .. .. .	129	59	38
Korea—			
Pipes .. .. .	403	263	422
“Manchoukuo”—			
Pig-lead .. .. .	(a)	562	934
Red and white lead, etc. .. .. .	(a)	233	393
Netherlands East Indies—			
Pig-lead, scrap and alloys .. .. .	504	256	154
Sheets, etc. and alloys .. .. .	286	322	267
Tea-lead .. .. .	353	353	257
Red and white lead .. .. .	873	752	645
Philippine Islands—			
Pig-lead and sheets .. .. .	586	485	(a)
Red and white lead .. .. .	394	441	(a)
Siam (total imports)—			
Pig-lead .. .. .	240	146	129
Syria and Lebanon—			
Ingots and sheets .. .. .	56	71	138
Pipes .. .. .	31	125	77
Red and white lead .. .. .	77	166	370
Turkey—			
Ore .. .. .	14	—	} (a)
Pig-lead, scrap and alloys .. .. .	561	982	
Sheets, tubes, wire and alloys .. .. .	103	76	

(a) Information not available.



**MAGNESITE**

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PRODUCTION OF MAGNESITE

(Long tons)

Producing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Southern Rhodesia—			
Crude .. .. .	—	13	—
Union of South Africa—			
Crude .. .. .	1,336	1,396	1,471
Canada—			
Crude .. .. .	23,963	2,788	(a)
Caustic and dead-burnt (c) ..	10,188	7,939	(a)
India—			
Crude .. .. .	5,333	13,864	15,206
Australia—			
Crude .. .. .	3,475	5,391	9,720
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude .. .. .	176,606	132,286	161,736
Caustic (c) .. .. .	34,211	30,412	23,462
Dead-burnt (c) .. .. .	38,186	28,298	63,260
Bricks (c) .. .. .	23,441	15,283	24,970
Czechoslovakia—			
Calcined (b) .. .. .	14,569	13,014	18,988
Greece—			
Crude .. .. .	49,200	43,993	} (a)
Caustic (c) .. .. .	12,764	9,047	
Dead-burnt (c) .. .. .	1,886	1,605	
Italy—			
Crude .. .. .	3,415	453	(a)

(a) Information not available.

(b) Exports less imports.

(c) Derived from crude shown, and *not* additional.

## PRODUCTION OF MAGNESITE (Cont.)

Producing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Norway—			
Crude .. .. .	1,555	1,290	1,975
Calcined (c) .. .. .	450	512	579
Bricks (c) .. .. .	290	537	483
U.S.S.R. (Russia) (years ended Sept. 30)—			
Crude .. .. .	242,000	} (a)	(a)
Caustic (c) ... .. .	13,665		
Dead-burnt (c) .. .. .	51,700		
Bricks (c) .. .. .	29,904		
Yugoslavia (Serbia only)—			
Crude .. .. .	22,826	16,084	14,371
Calcined .. .. .	8,875	7,633	5,561
United States—			
Crude .. .. .	65,716	34,341	96,596
Caustic (sales) (c) .. .. .	5,268	3,013	7,269
Dead-burnt (sales) (c) .. .. .	25,206	13,246	38,940
“ Manchoukuo ”—			
Crude .. .. .	35,465	54,511	(a)
Turkey—			
Crude .. .. .	2,162	305	936

(a) Information not available.

(c) Derived from crude shown, and *not* additional.

## EXPORTS OF MAGNESITE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Magnesium .. .. .	46	5	25
Magnesium compounds .. .. .	3,782	4,626	5,070
Canada—			
Caustic and dead-burnt .. .. .	1,438	1,066	2,071
FOREIGN COUNTRIES			
Austria—			
Crude .. .. .	4,960	2,579	5,387
Caustic .. .. .	18,110	15,368	18,806
Dead-burnt .. .. .	27,057	14,763	36,942
Bricks .. .. .	(b) 42,217	13,826	24,527
Carbonate .. .. .	9	3	2
Chloride .. .. .	15	52	8
Belgium-Luxemburg E.U.—			
Crude .. .. .	5	—	19
Calcined .. .. .	5	86	64
Carbonate .. .. .	31	9	2
Chloride .. .. .	123	18	49
Sulphate .. .. .	109	78	52
Czechoslovakia—			
Crude .. .. .	7,708	6,111	9,271
Calcined .. .. .	15,264	13,651	19,730
Chloride and sulphate .. .. .	4	12	3
Oxide, impure .. .. .	—	23	26
France—			
Crude .. .. .	27	9	16
Calcined .. .. .	36	58	21
Magnesium .. .. .	6	1	2
Carbonate .. .. .	32	42	25
Chloride .. .. .	617	697	753
Sulphate .. .. .	39	103	163
Germany—			
Calcined .. .. .	5,087	4,005	3,014
Carbonate .. .. .	483	403	512
Chloride .. .. .	34,624	20,863	15,996
Sulphate .. .. .	60,426	36,293	48,112

(b) Including other refractory bricks.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Greece—			
Crude .. .. .	1,203	12,797	10,755
Caustic .. .. .	8,631	10,396	13,681
Hungary—			
Sulphate .. .. .	6	2	—
Italy—			
Caustic, impure .. .. .	526	506	301
do. pure .. .. .	176	117	136
Carbonate .. .. .	131	184	144
Chloride and sulphate .. .. .	9	10	4
Netherlands—			
Crude .. .. .	5	140	20
Oxide .. .. .	12,189	8,458	8,923
Sulphate .. .. .	7	36	63
Norway—			
Calcined .. .. .	399	—	—
Bricks .. .. .	380	—	—
Sweden—			
Crude and calcined .. .. .	9	278	—
U.S.S.R. (Russia) .. .. .	14,945	2,643	6,941
Yugoslavia—			
Crude .. .. .	610	719	849
Calcined .. .. .	6,799	6,708	5,173
United States—			
Oxide and manufactures .. .. .	1,297	545	620
“Manchoukuo” —			
Crude and ground .. .. .	(a)	2,728	42,233
Turkey—			
Crude .. .. .	1,684	103	(a)

(a) Information not available.

## IMPORTS OF MAGNESITE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Crude .. .. .	6,626	8,035	5,388
Caustic and dead-burnt .. .. .	12,125	10,093	9,439
Magnesium .. .. .	62	48	6
Chloride, sulphate, etc. .. .. .	26,159	15,763	19,318
Union of South Africa—			
Carbonate and sulphate .. .. .	492	510	515
Chloride .. .. .	227	134	230
Canada—			
Crude and calcined .. .. .	1,596	951	1,252
Oxide .. .. .	474	65	57
Carbonate .. .. .	(b) 113	354	440
Sulphate .. .. .	1,839	1,957	1,906
Bricks .. .. .	(£32,337)	(£17,809)	(£54,735)
British India (total imports)—			
Chloride .. .. .	1,827	1,134	1,026
Sulphate .. .. .	1,289	580	812
Other salts .. .. .	17	43	206
Australia—			
Oxide .. .. .	43	66	104
Carbonate .. .. .	94	90	344
Chloride .. .. .	37	144	406
Sulphate .. .. .	626	397	499
New Zealand—			
Sulphate .. .. .	235	247	302
FOREIGN COUNTRIES			
Austria—			
Crude .. .. .	—	11	—
Caustic .. .. .	83	47	46
Dead-burnt .. .. .	7	—	—
Carbonate .. .. .	153	115	124
Chloride .. .. .	1,383	1,025	563
Sulphate .. .. .	99	8	2

(b) June–December only.

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

Importing Country and Description	1931	1932	1933
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Belgium-Luxemburg E.U.—</b>			
Crude .. .. .	490	262	62
Calcined .. .. .	599	882	653
Magnesium .. .. .	1	3	3
Carbonate .. .. .	61	31	36
Chloride .. .. .	3,108	1,057	536
Sulphate .. .. .	13,143	4,078	4,842
<b>Bulgaria—</b>			
Crude .. .. .	118	132	47
Sulphate .. .. .	56	97	60
<b>Czechoslovakia—</b>			
Crude .. .. .	—	10	6
Calcined .. .. .	695	637	742
Oxide, impure .. .. .	3,778	3,125	2,314
Chloride .. .. .	4,285	3,395	2,337
Sulphate .. .. .	3	1	—
<b>Denmark—</b>			
Crude .. .. .	510	312	334
Oxide .. .. .	88	104	111
Chloride .. .. .	609	359	363
Sulphate .. .. .	146	182	231
<b>Estonia—</b>			
Ground and calcined .. .. .	69	73	62
Chloride and sulphate .. .. .	104	127	103
<b>Finland (total imports)—</b>			
Magnesite and witherite .. .. .	490	518	586
Calcined .. .. .	15	7	3
Carbonate .. .. .	64	59	104
Chloride .. .. .	423	331	416
Sulphate .. .. .	94	153	80
<b>France—</b>			
Crude .. .. .	361	482	775
Calcined .. .. .	4,716	11,158	14,461
Magnesium .. .. .	61	24	8
Carbonate .. .. .	1,295	1,118	1,496
Chloride .. .. .	2,464	1,237	872
Sulphate .. .. .	1,480	697	1,557
<b>Germany—</b>			
Crude .. .. .	14,113	10,968	15,915
Caustic .. .. .	19,871	13,793	20,303
Dead-burnt .. .. .	15,226	9,272	16,327
Carbonate .. .. .	31	83	70
Sulphate .. .. .	5	—	2

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Crude and calcined .. ..	6,018	5,336	6,201
Oxide .. .. .	37	22	42
Sulphate .. .. .	899	59	30
Italy—			
Caustic, impure .. .. .	2,164	2,341	3,052
do. pure .. .. .	2	1	16
Carbonate .. .. .	12	24	25
Chloride .. .. .	840	716	372
Sulphate .. .. .	441	26	32
Latvia—			
Crude and calcined .. ..	134	132	124
Chloride .. .. .	105	120	109
Sulphate .. .. .	10	35	56
Lithuania—			
Crude and calcined .. ..	163	104	80
Salts .. .. .	201	126	77
Netherlands—			
Crude .. .. .	879	517	1,612
Oxide .. .. .	12,744	8,906	8,506
Sulphate .. .. .	9,533	5,440	5,368
Norway—			
Calcined .. .. .	777	473	427
Bricks .. .. .	62	100	106
Chloride .. .. .	1,050	320	286
Poland—			
Crude .. .. .	3,061	1,585	2,012
Chloride .. .. .	1,237	720	545
Oxide .. .. .	2	6	8
Sulphate .. .. .	2,238	839	897
Portugal—			
Calcined, etc. .. .. .	175	71	93
Carbonate .. .. .	8	15	14
Sulphate .. .. .	455	505	805
Chloride .. .. .	138	47	62
Roumania—			
Calcined .. .. .	15	21	24
Chloride .. .. .	64	62	54
Sulphate .. .. .	419	391	346
Spain—			
Carbonate .. .. .	85	92	114
Chloride and sulphate .. ..	735	243	189
Oxide .. .. .	24	18	19

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Crude and calcined .. ..	1,497	1,203	1,297
Switzerland—			
Calcined .. ..	2,578	1,806	1,601
Yugoslavia—			
Calcined .. ..	1,579	1,042	1,188
Chloride and sulphate .. ..	823	394	197
Oxide and carbonate .. ..	92	75	76
Algeria—			
Calcined .. ..	226	5	} (a)
Carbonate .. ..	37	8	
Chloride .. ..	4	13	
Sulphate .. ..	12	14	
Egypt—			
Sulphate .. ..	278	395	407
Mexico—			
Calcined .. ..	35	48	36
United States—			
Crude and calcined .. ..	2,651	1,694	1,749
Dead-burnt .. ..	18,693	6,270	13,408
Oxide .. ..	188	187	180
Carbonate, precipitated .. ..	255	353	279
Chloride .. ..	589	245	182
Sulphate .. ..	4,225	4,307	4,467
Argentina—			
Calcined .. ..	84	92	85
Carbonate .. ..	76	80	83
Chloride .. ..	160	115	105
Sulphate and chlorate .. ..	504	387	697
Brazil (total imports)—			
Sulphate .. ..	917	859	(a)
Chile—			
Crude .. ..	58	24	} (a)
Chloride .. ..	105	113	
Carbonate, oxide, etc. .. ..	7	8	
Sulphate .. ..	131	19	
Colombia—			
Calcined .. ..	(a)	14	(a)
Salts .. ..	67	75	(a)
Peru—			
Crude .. ..	495	301	—
Salts .. ..	40	46	55

(a) Information not available.



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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Venezuela—			
Sulphate .. .. .	31	47	(a)
French Indo-China—			
Calcined .. .. .	15	5	4
Carbonate .. .. .	2	1	2
Chloride .. .. .	16	14	19
Japan—			
Crude (c) .. .. .	7,752	14,931	(e) 28,140
Oxide (d) .. .. .	2,555	1,705	(f) 2,560
Turkey—			
Crude .. .. .	14	—	(a)
Salts .. .. .	143	62	(a)

(a) Information not available.

(c) Excluding imports into Yokohama and Tokyo.

(d) Some oxide is included with crude magnesite.

(e) Excluding imports into Kobe and Nagoya.

(f) Excluding imports into Kobe.

## MANGANESE

PRODUCTION OF MANGANESE ORE  
(Long tons)

Producing Country	1931	1932	1933	Estimated Manganese Content		
				1931	1932	1933
<b>BRITISH EMPIRE</b>						
Gold Coast (exports)	247,191	50,689	265,140	128,000	26,000	138,000
Northern Rhodesia	1,467	—	5,367	700	—	2,111
Union of South Africa	100,290	—	20,894	47,157	—	10,585
Canada .. .. .	104	—	—	(a)	—	—
India .. .. .	537,844	212,604	218,307	269,000	106,000	109,000
Unfederated Malay States .. .. .	8,848	9,278	13,194	2,000	2,100	3,000
Australia .. .. .	13	106	129	(a)	(a)	(a)
Total .. .. .	900,000	270,000	520,000			
<b>FOREIGN COUNTRIES</b>						
Austria (b) .. .. .	(a)	(a)	(a)	11,298	6,480	5,377
Czechoslovakia .. .. .	82,558	32,951	(a)	14,629	5,614	(a)
France .. .. .	325	—	(a)	87	—	(a)
Germany .. .. .	—	12	(a)	—	(a)	(a)
Greece .. .. .	301	733	(a)	145	320	(a)
Hungary .. .. .	1,114	1,473	(a)	450	590	(a)
Italy .. .. .	6,320	372	4,453	2,242	130	1,500
Portugal .. .. .	266	—	25	50	—	10
Roumania .. .. .	18,490	4,971	2,337	6,700	1,725	841
Spain .. .. .	17,633	2,550	3,720	5,400	800	1,200
Sweden .. .. .	8,232	4,653	6,122	2,633	1,649	2,000
U.S.S.R. (Russia) .. .. .	862,000	813,000	982,000	(a)	(a)	(a)
Yugoslavia .. .. .	2,415	156	521	900	60	200
Egypt .. .. .	100,174	322	184	32,100	203	120
Morocco (French zone) .. .. .	10,659	4,000	4,752	4,400	1,600	1,900

(a) Information not available.

(b) Manganese content of manganese ore and manganiferous iron ore.

## PRODUCTION OF MANGANESE ORE (Cont.)

Producing Country	1931	1932	1933	Estimated Manganese Content		
				1931	1932	1933
FOREIGN COUNTRIES (Cont.)						
Cuba .. .. .	6,491	2,113	89,224	2,600	850	35,700
Porto Rico (exports)	2,374	2,302	1,638	1,166	1,102	797
Mexico .. .. .	719	301	(a)	(a)	(a)	(a)
United States (c) ..	39,242	17,777	18,558	16,000	8,000	(a)
Argentine .. .. .	218	248	(a)	100	100	(a)
Brazil .. .. .	142,731	19,979	(a)	67,000	9,500	(a)
Chile .. .. .	377	441	450	170	200	200
China .. .. .	24,000	21,500	(a)	10,800	9,700	(a)
Japan .. .. .	2,871	5,333	(a)	660	1,227	(a)
"Manchoukuo"	266	59	(a)	128	28	(a)
Netherlands East Indies .. .. .	14,311	8,156	10,298	7,700	4,400	5,400
Turkey .. .. .	1,000	2,800	7,600	250	700	1,800
Total .. .. .	1,340,000	950,000	1,210,000			
WORLD'S TOTAL	2,240,000	1,220,000	1,730,000			

(a) Information not available.

(c) Shipments. Excluding ore containing 10 to under 35 per cent. Mn, which is included with iron ore, as follows:—

1931	.. .. .	64,062 long tons.
1932	.. .. .	15,635 " "
1933	.. .. .	12,779 " "

## EXPORTS OF MANGANESE ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ferro-manganese and spiegeleisen	10,633	6,027	3,238
Gold Coast—			
Ore .. .. .	247,191	50,689	265,140
Union of South Africa—			
Ore .. .. .	103,250	3,054	21,475
Canada—			
Ore .. .. .	—	89	—
Ferro-manganese and other ferro-alloys (e) .. .. .	15,504	14,400	42,034
British India—			
Ore (b) .. .. .	246,547	192,744	259,808
Ferruginous manganese ore ..	6,700	—	—
British Malaya (c)—			
Ore .. .. .	8,946	9,278	11,372
Hong Kong (including re-exports)—			
Ore .. .. .	14,511	8,414	10,182
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	(a)	98	197
Belgium-Luxemburg E.U.—			
Ore .. .. .	2,848	17,436	1,353
France—			
Ore .. .. .	4,878	4,945	3,480
Manganese dioxide .. .. .	27	13	17
Ferro-manganese .. .. .	2,262	603	1,616
Germany—			
Ore .. .. .	1,543	1,539	2,285
Ferro-manganese .. .. .	14,129	18,945	18,750
Greece—			
Ore .. .. .	664	755	2,568
Hungary—			
Ore .. .. .	168	295	(a)

(a) Information not available.

(b) Excluding manganese ore mined in British India, but exported via the Portuguese port of Mormugao—1931, 171,410 tons—1932, 108,508 tons—1933 (a).

(c) Including re-exports.

(e) Excluding ferro-silicon.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—			
Ore, including manganiferous iron ore .. .. .	4	13	60
Ferro-manganese .. .. .	559	403	490
Ferro-silico-manganese .. .. .	618	1,015	137
Netherlands—			
Ore .. .. .	969	548	23,702
Norway—			
Ferro-manganese .. .. .	31,523	34,933	37,068
Ferro-silico-manganese .. .. .	2,234	(a)	11,893
Poland—			
Ferro-manganese .. .. .	1,587	193	2,411
Spain—			
Ore .. .. .	6,070	99	411
Sweden—			
Ore .. .. .	116	97	80
Ferro-manganese and spiegeleisen .. .. .	669	731	939
Ferro-silico-manganese .. .. .	1,594	1,012	1,957
U.S.S.R. (Russia)—			
Ore .. .. .	729,991	409,045	644,662
Yugoslavia—			
Ore .. .. .	491	49	—
Ferro-manganese .. .. .	1,210	1,186	—
Algeria—			
Ore .. .. .	490	678	2,373
Morocco—			
Ore .. .. .	165	2,740	2,184
Cuba—			
Ore .. .. .	6,491	18,874	18,352
United States—			
Ferro-manganese and spiegeleisen .. .. .	1,306	33	47
Brazil—			
Ore .. .. .	94,041	20,555	24,500
Chile—			
Ore .. .. .	377	442	753
China—			
Ore .. .. .	21,702	20,406	9,422
Japan—			
Ore .. .. .	3,147	3,390	6,112
Netherlands East Indies—			
Ore .. .. .	13,084	7,978	8,171
Portuguese India—			
Ore .. .. .	2,355	(a)	(a)
Turkey—			
Ore .. .. .	1,000	2,800	(a)

(a) Information not available.

## IMPORTS OF MANGANESE ORE, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	78,104	78,452	119,309
Ferro-manganese and spiegeleisen	7,600	2,871	6,186
Union of South Africa—			
Ferro-manganese .. .. .	609	625	580
Manganese dioxide .. .. .	24	30	17
Canada—			
Ferro-alloys .. .. .	2,708	284	461
Ore (oxide) .. .. .	23,708	1,350	30,663
British Malaya (total imports)—			
Ore .. .. .	278	3	—
Hong Kong (total imports)—			
Ore .. .. .	17,122	8,565	9,340
Australia—			
Ore .. .. .	486	506	223
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	232	433	313
Belgium-Luxemburg E.U.—			
Ore .. .. .	238,298	152,294	164,443
Czechoslovakia—			
Ore .. .. .	71,469	248	6,678
Denmark—			
Ore .. .. .	1,608	1,325	881
Estonia—			
Ore .. .. .	20	8	8
Finland (total imports)—			
Ore .. .. .	59	69	28
Ferro-manganese .. .. .	198	331	314
France—			
Ore .. .. .	475,122	343,654	499,389
Ferro-manganese .. .. .	184	3	30
Manganese dioxide .. .. .	63	547	173
Germany—			
Ore .. .. .	159,797	105,093	129,842
Ferro-manganese .. .. .	2,328	2,497	1,790
Hungary—			
Ore .. .. .	25	25	83
Italy—			
Ore, including manganiferous iron ore .. .. .	51,393	28,443	53,412

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—(cont.)			
Ferro-manganese .. .. .	217	217	114
Ferro-silico-manganese .. .. .	47	193	10
Spiegeleisen .. .. .	251	19	10
Netherlands—			
Ore .. .. .	29,863	11,023	3,888
Norway—			
Ore .. .. .	99,247	20,136	77,972
Poland—			
Ore .. .. .	39,166	7,700	37,661
Ferro-manganese .. .. .	2,027	64	531
Manganese dioxide .. .. .	309	381	31
Roumania—			
Manganese dioxide .. .. .	213	112	152
Spain—			
Ore .. .. .	10,318	5,060	8,279
Ferro-manganese .. .. .	503	3	246
Sweden—			
Ore .. .. .	302	265	428
Ferro-manganese and spiegeleisen	2,791	3,282	2,277
Ferro-silico-manganese and ferro-silicon .. .. .	85	47	269
U.S.S.R. (Russia)—			
Spiegeleisen, silico-spiegel, etc. ..	317	—	—
Ferro-manganese .. .. .	—	—	1,930
Yugoslavia—			
Ore .. .. .	5,194	81	120
Ferro-manganese .. .. .	162	105	763
Algeria—			
Ore .. .. .	560	439	(a)
Mexico—			
Ferro-manganese .. .. .	235	49	362
United States—			
Ore ( <i>Mn content</i> ) .. .. .	245,910	53,553	73,390
Spiegeleisen .. .. .	9,482	8,364	26,277
Ferro-manganese and other Mn alloys ( <i>Mn content</i> ) (b) .. .. .	17,764	14,586	32,442
Argentina—			
Dioxide and borate of manganese	240	330	303
China—			
Ore .. .. .	(a)	210	657
Ferro-manganese .. .. .	(a)	44	16
Japan (total imports)—			
Ore .. .. .	8,839	42,141	66,228
Ferro-manganese .. .. .	904	197	10

(a) Information not available.

(b) Total imports.

## MICA

PRODUCTION OF MICA  
(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Nigeria .. .. .	(17 cwt.)	(17 cwt.)	—
Northern Rhodesia .. .. .	1	—	1
Southern Rhodesia .. .. .	66	13	4
Tanganyika Territory .. .. .	9	12	11
Union of South Africa (b) .. .. .	843	242	391
Canada—			
Knife trimmed .. .. .	—	—	4
Thumb trimmed .. .. .	22	1	23
Splittings .. .. .	17	2	33
Scrap .. .. .	1,156	274	783
Ceylon (exports) .. .. .	2	2	—
India (exports)—			
Sheet .. .. .	414	335	839
Splittings .. .. .	2,235	2,016	2,047
Australia .. .. .	29	30	42
FOREIGN COUNTRIES			
Italy .. .. .	12	9	(a)
Norway .. .. .	15	31	5
Sweden .. .. .	64	60	(a)
Madagascar—			
Muscovite .. .. .	14	(88 lb.)	(a)
Phlogopite, etc. .. .. .	217	136	(a)
United States (sales)—			
Sheets (uncut) .. .. .	430	151	163
Scrap .. .. .	5,912	6,286	7,813
Argentina .. .. .	50	54	(a)
Brazil (exports) .. .. .	54	41	(a)
Korea .. .. .	17	20	(a)

NOTE.—1,469 long tons of mica were recorded as produced in U.S.S.R. (Russia) during year ended September, 1928—later figures are not available.

(a) Information not available.

(b) Nearly all scrap.

The following amounts of lithia mica were produced :—

	1931	1932	1933	
South West Africa .. .. .	100	—	—	long tons.
Czechoslovakia .. .. .	7	—	(a)	" "
Germany .. .. .	404	(a)	(a)	" "
Portugal .. .. .	564	2,014	870	" "
France .. .. .	900	(a)	(a)	" "



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

Exporting Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Splittings, films, ground and waste	2	3	27
Kenya .. .. .	(£5)	(£2)	—
Southern Rhodesia .. .. .	75	10	4
Tanganyika Territory .. .. .	9	12	12
Union of South Africa .. .. .	517	237	504
Canada—			
Rough, cobbed and thumb-trimmed .. .. .	21	1	24
Splittings .. .. .	17	44	34
Scrap and waste .. .. .	1,100	268	961
British India—			
Sheet .. .. .	414	335	839
Splittings .. .. .	2,235	2,016	2,047
Ceylon .. .. .	2	2	(2 cwt.)
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	29	118	319
Belgium-Luxemburg E.U.—			
Sheet and plate .. .. .	62	55	70
France—			
Unmanufactured .. .. .	193	140	136
Sheet, plate and manufactures .. .. .	24	19	13
Germany—			
Unmanufactured .. .. .	56	40	23
Italy .. .. .	1	1	9
Norway—			
Sheet .. .. .	3	1	2
Scrap .. .. .	45	100	101
Switzerland (including asbestos) .. .. .	9	30	5
U.S.S.R. (Russia) .. .. .	—	—	588
Madagascar—			
Muscovite .. .. .	2	—	—
Phlogopite, etc. .. .. .	117	128	242
United States (including manufactured) .. .. .	2,399	1,383	1,395
Argentina .. .. .	33	17	34
Brazil .. .. .	54	41	(a)

(a) Information not available.

## IMPORTS OF MICA

(Less Re-exports)

(Long tons)

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Block, splittings and films ..	704	905	660
Ground and waste .. .. .	625	325	624
Union of South Africa—			
Micanite sheets .. .. .	(£1,103)	(£520)	(£1,086)
Newfoundland (years ended June 30)	(£32)	(£2)	(£4)
British India (total imports)—			
Sheet .. .. .	21	7	19
Splittings .. .. .	13	2	(2 cwt.)
Australia .. .. .	(8 cwt.)	(2 cwt.)	1
<b>FOREIGN COUNTRIES.</b>			
Austria—			
Unmanufactured .. .. .	11	14	6
Sheet .. .. .	15	11	11
Belgium-Luxemburg E.U.—			
Crude sheet and plate .. ..	145	100	146
Cut sheet and plate .. .. .	16	11	14
Denmark .. .. .			
Denmark .. .. .	107	84	60
France—			
Unmanufactured .. .. .	466	176	195
Sheet, plate and manufactures ..	51	35	34
Germany—			
Unmanufactured .. .. .	341	388	571
Italy—			
Unmanufactured and sheet ..	236	168	125
Netherlands .. .. .			
Netherlands .. .. .	33	22	38
Poland .. .. .			
Poland .. .. .	29	37	52
Roumania—			
Crude, sheet and manufactures ..	3	1	2
Spain—			
Sheet .. .. .	21	9	19
Switzerland (including asbestos) ..			
Switzerland (including asbestos) ..	1,135	584	824
U.S.S.R. (Russia) .. .. .			
U.S.S.R. (Russia) .. .. .	30	37	3
United States (total imports)—(b)			
Unmanufactured .. .. .	2,040	1,320	1,715
Cut, splittings and manufactures	545	461	713
Chile .. .. .			
Chile .. .. .	1	—	—

(b) Re-exports of mica and manufactures were 31, 11 and 10 tons in 1931, 1932 and 1933 respectively.

**MOLYBDENUM**

## PRODUCTION OF MOLYBDENUM ORE

(Cwt.)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Canada ( <i>MoS<sub>2</sub> content</i> ) .. .. .	11	—	—
Australia .. .. .	11	102	130
FOREIGN COUNTRIES			
Norway ( <i>MoS<sub>2</sub> content</i> ) .. .. .	3,380	5,181	8,149
French Morocco (ore) .. .. .	—	—	2,362
Mexico .. .. .	112	103	1,303
United States ( <i>MoS<sub>2</sub> content</i> ) .. .. .	46,616	39,804	83,748
Korea .. .. .	433	879	(a)
Peru .. .. .	—	130	127

(a) Information not available.

## EXPORTS OF MOLYBDENUM ORE, ETC.

*(Domestic Produce)**(Cwt.)*

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
Canada— .. .. .			
Ore ( <i>Mo content</i> ) .. .. .	—	11	—
Australia— .. .. .			
Ore .. .. .	125	68	12
FOREIGN COUNTRIES			
France—			
Molybdic acid and molybdates ..	102	128	65
Norway—			
Ore .. .. .	4,516	7,259	9,317
Morocco—			
Ore .. .. .	91	2	2,294
Mexico—			
Ore .. .. .	112	103	1,303
United States.. .. .	(b)	(b)	(b)
Peru—			
Ores ( <i>Mo content</i> ) .. .. .	105	90	(a)

(a) Information not available.

(b) Exports not separately recorded in the trade returns of the United States.

## IMPORTS OF MOLYBDENUM ORE, ETC.

*(Less Re-exports)*

(Cwt.)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	11,498	9,829	12,172
Canada—			
Calcium molybdate .. ..	306	127	63
FOREIGN COUNTRIES			
France—			
Molybdic acid and molybdates ..	43	31	287
Italy—			
Ferro-molybdenum .. ..	1,500	551	1,321
U.S.S.R. (Russia)—			
Ferro-molybdenum .. ..	13,000	11,640	12,240
United States—			
<i>Mo content</i> of—			
Ferro-molybdenum, etc. ..	1,882	—	—

**MONAZITE**

PRODUCTION OF MONAZITE  
(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
India .. .. .	90	654	—
<b>FOREIGN COUNTRIES</b>			
Brazil (exports) .. .. .	—	295	(a)

(a) Information not available.

## EXPORTS OF MONAZITE, ETC.

*(Domestic Produce)*

Exporting Country and Description	Unit	1931	1932	1933
BRITISH EMPIRE				
United Kingdom—				
Thorium nitrate .. ..	Cwt.	1	4	2
Gas mantles .. ..	Gross	16,144	21,010	19,733
India (Travancore) (b)—				
Monazite sand .. ..	Cwt.	31,300	39,580	18,180
British Malaya (including re-exports)—				
Gas mantles .. ..	Gross	130	58	50
FOREIGN COUNTRIES				
Austria—				
Gas mantles .. ..	Cwt.	32	24	26
Belgium-Luxemburg E.U.—				
Gas mantles .. ..	Cwt.	73	6	8
France—				
Thorium nitrate and other rare-earth salts .. ..	Cwt.	193	614	498
Gas mantles .. ..	Gross	2,014	1,688	715
Germany—				
Gas mantles .. ..	Gross	75,514	61,313	56,389
Italy—				
Gas mantles .. ..	Gross	2,165	—	3
Netherlands—				
Gas mantles .. ..	Gross	31	63	7
Sweden—				
Gas mantles .. ..	Cwt.	38	68	88
United States—				
Gas mantles .. ..	Gross	15,787	12,004	8,655
Brazil—				
Monazite sand .. ..	Long ton	—	295	(a)

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

(a) Information not available.

(b) Years ended July 31 of the year stated.

IMPORTS OF MONAZITE, ETC.  
(Less Re-exports)

Importing Country and Description	Unit	1931	1932	1933
<b>BRITISH EMPIRE</b>				
United Kingdom—				
Monazite sand .. ..	Long ton	148	202	230
Thorium nitrate .. ..	Cwt.	349	432	133
Gas mantles .. ..	Gross	13,874	1,538	555
Irish Free State—				
Gas mantles .. ..	Gross	3,053	3,615	2,790
Canada—				
Thorium nitrate, etc. ..	£	827	1,486	1,212
British India (total imports)—				
Gas mantles .. ..	£	37,000	61,453	41,119
British Malaya (total imports)—				
Gas mantles .. ..	Gross	2,667	4,040	2,958
Ceylon—				
Gas mantles .. ..	Gross	942	798	1,252
Australia—				
Gas mantles .. ..	Gross	5,623	5,491	7,238
<b>FOREIGN COUNTRIES</b>				
Austria—				
Gas mantles .. ..	Cwt.	4	—	—
Belgium-Luxemburg E.U.—				
Gas mantles .. ..	Cwt.	128	47	53
Estonia—				
Gas mantles .. ..	Gross	109	199	149
France—				
Thorium nitrate and other rare-earth salts .. ..	Cwt.	10	16	10
Gas mantles .. ..	Gross	1,007	993	951
Germany—				
Monazite sand .. ..	Long ton	97	2	1
Gas mantles .. ..	Gross	444	83	49
Hungary—				
Gas mantles .. ..	Cwt.	14	12	8
Italy—				
Gas mantles .. ..	Gross	92	83	94
Thorium and cerium salts..	Cwt.	18	15	14
Netherlands—				
Gas mantles .. ..	Gross	7,654	6,513	7,966
Norway—				
Gas mantles .. ..	Cwt.	17	18	16



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

Importing Country and Description	Unit	1931	1932	1933
FOREIGN COUNTRIES (Cont.)				
Poland—				
Gas mantles .. ..	Cwt.	18	26	33
Portugal—				
Gas mantles .. ..	Cwt.	29	11	8
Sweden—				
Gas mantles .. ..	Cwt.	3	—	4
Switzerland—				
Gas mantles .. ..	Cwt.	9	6	3
Yugoslavia—				
Gas mantles .. ..	Cwt.	16	14	35
Egypt—				
Gas mantles .. ..	£	11,645	15,666	15,148
United States—				
Monazite sand and thorite	Long ton	1,516	1,401	50
Gas mantles .. ..	Gross	1,513	—	—
Brazil (total imports)—				
Gas mantles .. ..	Cwt.	10	9	(a)
Turkey—				
Thorium salts .. ..	Cwt.	8	—	(a)
Gas mantles .. ..	Cwt.	2	1	(a)

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

(a) Information not available.

**NICKEL**

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PRODUCTION OF NICKEL ORE

(In terms of metal)

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Canada .. .. .	29,315	13,539	37,172
India (b) .. .. .	804	930	870
Australia .. .. .	(1 cwt.)	(11 cwt.)	9
Total .. .. .	30,100	14,500	38,100
<b>FOREIGN COUNTRIES</b>			
Greece .. .. .	638	940	1,200
Norway .. .. .	523	930	979
United States (d) .. .. .	333	174	113
New Caledonia (c) .. .. .	7,318	4,958	4,860
Total .. .. .	8,800	7,000	7,200
WORLD'S TOTAL .. .. .	38,900	21,500	45,300

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

(c) Estimated content of matte and ferro-nickel obtained at smelters was as follows:—

1931 .. .. .	3,800 long tons.
1932 .. .. .	2,200 " "
1933 .. .. .	4,000 " "

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

## EXPORTS OF NICKEL

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Cubes, rondels, etc. .. .. .	4,135	3,137	4,892
Plates, sheets and anodes .. .. .	154	101	134
Ingots, sheets, etc. (alloys) .. .. .	393	430	560
Nickel oxide .. .. .	6	11	68
Canada—			
Ore, matte, etc. ( <i>Ni content</i> ) .. .. .	14,861	6,772	17,110
Nickel, fine .. .. .	12,113	6,770	18,791
Nickel oxide ( <i>Ni content</i> ) .. .. .	1,388	776	3,422
Australia (years ended June 30)—			
Ores and concentrates ( <i>Ni content</i> ) .. .. .	3	—	—
Hong Kong (including re-exports)—			
Nickel .. .. .	16	8	6
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude, scrap and alloys .. .. .	422	390	131
Sheets, tubes, etc., and alloys .. .. .	1,214	691	814
Belgium-Luxemburg E.U.—			
Ingots, scrap, etc. .. .. .	318	33	480
Sheets, wire, etc. .. .. .	1,963	2,009	2,400
Czechoslovakia—			
Crude and scrap .. .. .	5	4	5
Denmark—			
Sheets, rods, wire and alloys .. .. .	4	3	1
France—			
Ore .. .. .	37	1	52
Matte and speiss .. .. .	374	230	233
Ingots .. .. .	341	271	168
do. (alloys) .. .. .	37	33	20
Sheets and wire .. .. .	11	15	9
do. (alloys) .. .. .	97	90	123
Nickel sulphate and oxide .. .. .	38	75	37
Germany—			
Nickel and chrome ores .. .. .	387	517	329
Crude, scrap and coin .. .. .	2,329	2,843	2,470
Bars, sheets, wire, etc. .. .. .	311	267	280

EXPORTS OF NICKEL (*Cont.*)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Hungary—			
Crude, scrap, wire and alloys ..	7	14	16
Italy—			
Sheets, tubes, wire and alloys ..	69	185	85
Scrap .. .. .	155	205	188
Netherlands—			
Crude and scrap .. .. .	52	79	143
Norway—			
Ingots .. .. .	2,250	4,024	3,374
Spain—			
Ingots, sheets, tubes, wire and alloys .. .. .	1	13	24
Sweden—			
Crude .. .. .	4	1	6
Switzerland—			
Crude, scrap, and alloys .. ..	201	199	165
Bars, sheets, etc., and alloys ..	357	462	609
United States—			
Nickel and alloys .. .. .	793	919	674
Nickel-silver bars, etc. .. ..	183	106	147
New Caledonia—			
Ore .. .. .	5	47	2
Matte, etc. .. .. .	5,447	3,853	5,884

## IMPORTS OF NICKEL

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom (b)—			
Cubes, rondels, etc. .. ..	667	732	1,110
Plates, sheets, etc. .. ..	198	78	45
Ingots, sheets, etc. (alloys) .. ..	483	782	437
Nickel oxide .. .. .	42	29	35
Irish Free State—			
Nickel, alloys and manufactures	173	154	77
Union of South Africa—			
Sulphate .. .. .	1	5	8
Canada—			
Ingots or blocks and alloys .. ..	16	3	307
Bars, rods, sheets, etc. .. ..	275	202	91
do. (alloys) .. .. .	58	35	46
British India (total imports)—			
Nickel-silver .. .. .	677	747	876
Hong Kong (total imports)—			
Nickel .. .. .	26	—	1
Australia—			
Ingots, sheets, scrap, etc. .. ..	10	50	63
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude, scrap and alloys .. ..	1,165	471	616
Sheets, tubes, etc., and alloys .. ..	24	12	11
Belgium-Luxemburg E.U.—			
Ingots, scrap, etc. .. ..	7,707	5,696	2,159
Sheets, wire, etc. .. .. .	114	87	117
Czechoslovakia—			
Crude and scrap .. .. .	405	276	427
Plates and sheets .. .. .	51	38	28
Denmark—			
Crude and scrap .. .. .	19	20	21
Bars, sheets, wire and alloys .. ..	122	91	61

(b) Canada records exports to the United Kingdom of nickel contained in ore, matte or speiss as follows :—1931, 10,327 long tons; 1932, 2,928 long tons; 1933, 8,683 long tons.

## IMPORTS OF NICKEL (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Finland (total imports)—			
Crude and scrap .. .. .	3	1	2
France—			
Ore .. .. .	2	19	50
Matte and speiss .. .. .	2,722	1,916	3,023
Ingots .. .. .	1,438	976	2,637
do. (alloys) .. .. .	71	129	214
Sheets and wire .. .. .	285	226	321
do. (alloys) .. .. .	774	725	670
Nickel sulphate and oxide ..	926	604	902
Germany—			
Ore .. .. .	19,280	17,419	33,968
Crude, scrap and coin .. .. .	2,558	2,287	4,407
Bars, sheets, wire, etc. .. ..	201	120	198
Greece .. .. .	2	2	5
Hungary—			
Crude, scrap and alloys .. ..	79	34	73
Bars and wire .. .. .	41	47	50
Italy—			
Ingots, scrap and alloys .. ..	1,284	936	1,313
Sheets, tubes, wire, etc., and alloys	178	93	126
Netherlands—			
Crude and scrap .. .. .	60	62	159
Norway—			
Crude, bars, rods, etc. .. ..	—	18	10
Matte (copper-nickel) .. .. .	3,485	4,329	7,151
Poland—			
Ingots, sheets, scrap, etc. ..	103	161	246
Portugal .. .. .	3	1	2
Roumania—			
Crude, sheets and wire .. ..	10	7	9
Spain—			
Ingots and cubes .. .. .	143	306	227
Sheets, tubes, wire and alloys ..	55	60	98
Sweden—			
Crude .. .. .	605	439	572
Switzerland—			
Crude, scrap, and alloys .. ..	342	361	702
Bars, sheets, etc., and alloys ..	304	243	301
U.S.S.R. (Russia)—			
Ingots, sheets, etc. .. .. .	3,780	3,896	3,443

IMPORTS OF NICKEL (*Cont.*)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Yugoslavia—			
Crude, scrap and coin .. ..	3	5	8
Bars, sheets, wire, etc. .. .	19	7	8
Algeria—			
Sheets, wire and alloys .. ..	5	2	(a)
Egypt (total imports)—			
Crude, bars, sheets, etc. .. .	14	17	36
United States—			
Ore and matte .. .. .	5,192	2,642	8,445
Crude, etc., and alloys .. ..	10,653	6,662	14,109
Nickel oxide .. .. .	136	307	1,037
Argentina—			
Sheets .. .. .	5	7	9
Brazil (total imports)—			
Cubes and sheets .. .. .	4	33	(a)
Chile—			
Bars and plates .. .. .	11	2	(a)
China .. .. .	79	32	84
French Indo-China .. .. .	6	2	3
Japan (total imports)—			
Ingots and grains .. .. .	765	1,711	3,139
Other nickel .. .. .	34	104	68
Netherlands East Indies—			
Crude, etc., and alloys .. ..	4	2	3
Philippine Islands .. .. .	2	2	
Siam .. .. .	10	1	2
Turkey—			
Nickel and alloys .. .. .	7	7	(a)

(a) Information not available.

## NITROGEN COMPOUNDS

### PRODUCTION OF NITRATES (NATURAL)

(Long tons)

Producing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
India—			
Nitrate of potash (estimated) ..	7,000	9,000	10,000
<b>FOREIGN COUNTRIES</b>			
Spain—			
Nitrified earth .. .. .	1,083	738	(a)
Egypt—			
Nitrate shale (5% nitrate) (b) ..	2,603	1,556	(a)
Chile—			
Nitrate of soda .. .. .	1,107,900	682,700	436,000
China—			
Nitrified earth .. .. .	5,350	5,100	(a)

A small amount of nitrate of soda is also produced in Peru.

(a) Information not available.

(b) One company only.



ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS.\*  
(Long tons)

Producing Country and Description	1931	1932	1933
BRITISH EMPIRE			
Great Britain—			
Ammonium salts expressed as sulphate (25½% NH <sub>3</sub> ) (b) ..	646,600	765,400	687,500
Irish Free State—			
Ammonium sulphate .. ..	1,962	2,000	2,000
Union of South Africa—			
Ammonium sulphate .. ..	583	228	10
Canada—			
Ammonium sulphate .. ..	51,580	51,580	73,691
Ammonium phosphate (c) ..	3,462	10,895	4,319
Cyanamide (c) .. ..	43,790	35,008	48,155
India (coke ovens)—			
Ammonium sulphate .. ..	12,133	9,474	9,885
Australia (years ended June 30)—			
Ammonium sulphate .. ..	10,993	11,703	7,605
FOREIGN COUNTRIES			
Austria—			
Ammonium sulphate .. ..	6,310	6,336	6,394
Ammonium carbonate .. ..	110	110	88
Aqueous ammonia .. ..	690	756	874
Ammonia liquor .. ..	180	219	183
Belgium—			
Ammonium sulphate .. ..	248,000	251,000	(a)
Cyanamide (estimated) .. ..	13,000	11,000	(a)
Lime ammonium nitrate .. ..	(a)	22,200	(a)
Czechoslovakia—			
Ammonium sulphate .. ..	44,125	27,538	31,445
Cyanamide .. ..	16,218	20,829	18,041
"Ostrava" nitrate .. ..	32,781	2,384	8,802
Nitrate of lime .. ..	(a)	20,631	16,497
Denmark—			
Ammonium sulphate .. ..	2,900	(a)	(a)
Finland—			
Ammonia and ammonium sulphate	137	136	(a)

\* Includes by-product ammonium sulphate which is separately recorded on pages 86-90 as far as available.

(a) Information not available.

(b) Actual ammonium sulphate production (basis 25½% NH<sub>3</sub>) was :—

1931 .. ..	514,000 long tons.
1932 .. ..	612,000 " "
1933 .. ..	562,000 " "

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

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS  
(Cont.)

Producing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—			
Saar—			
Ammonium sulphate .. ..	22,107	19,088	20,423
Other districts—			
Ammonium sulphate .. ..	313,027	363,808	} (a)
Cyanamide .. ..	46,000	46,113	
Nitrate of soda .. ..	3,000	5,564	
Nitrate of lime .. ..	54,968	63,772	
Amonitre .. ..	4,865	17,338	
Nitropotasse .. ..	8,711	6,138	
Other nitrogen fertilizers ..	12,665	(a)	
Germany (b)—			
Cyanamide .. ..	287,429	317,000	(a)
Ammonia products—			
Coke-ovens .. ..	331,400	281,000	(a)
Tar distillation .. ..	11,800	(a)	(a)
Hungary—			
Ammonium sulphate .. ..	1,100	1,223	(a)
Anhydrous ammonia .. ..	300	(a)	(a)
Aqueous ammonia .. ..	337	394	(a)
Italy—			
Ammonium sulphate .. ..	136,388	122,744	103,342
Cyanamide .. ..	83,675	76,667	134,434
Nitrate of soda .. ..	77	505	12,094
Nitrate of lime .. ..	25,965	64,156	76,037
Nitrate of ammonia (pure 33–35 N.)	6,834	7,046	11,691
do. (gran. 15–16 N.) .. ..	—	1,642	4,761
Ammonium sulphate nitrate ..	573	757	858
Di-ammonium phosphate .. ..	5,625	10,877	16,393
Netherlands—			
Ammonium sulphate .. ..	378,817	415,950	378,850
Norway (years ended June 30)—			
Cyanamide .. ..	18,623	25,998	(a)
Nitrate of ammonia .. ..	3,001	3,730	(a)
Nitrate of lime .. ..	389,325	291,849	343,000
Nitrate of soda .. ..	26,361	53,804	82,000
Ammonia .. ..	93	75	(a)
Nitrate of lime and magnesia ..	209	469	(a)
Nitamonkalk .. ..	2,857	7,332	(a)

(a) Information not available.

(b) The production of ammonium sulphate from ammonia and sulphuric acid is estimated for 1931 as 535,000 long tons. Synthetic ammonium sulphate is also made from ammonium carbonate and gypsum.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS  
(Cont.)

Producing Country and Description	1931	1932	1933
<b>FOREIGN COUNTRIES (Cont.)</b>			
Poland—			
Ammonium sulphate .. ..	56,526	50,955	58,811
Ammonium chloride .. ..	170	(a)	(a)
Ammonium carbonate .. ..	100	(a)	(a)
“ Wapnamon ” .. ..	1,950	2,050	(a)
Cyanamide .. ..	35,200	8,479	8,275
Nitrate of soda .. ..	8,297	6,932	7,514
Saletrzak .. ..	40,093	36,669	19,798
Nitrophos .. ..	5,659	6,816	5,938
Nitrate of ammonia .. ..	4,648	2,310	2,497
Nitrate of lime .. ..	31,139	30,976	30,127
Other nitrogen compounds ..	(a)	(a)	28,000
Roumania—			
Ammonium sulphate .. ..	20	20	(a)
Cyanamide .. ..	868	(a)	(a)
Spain—			
Ammonium sulphate .. ..	18,682	11,369	(a)
Ammonia .. ..	2,618	2,140	(a)
Sweden—			
Ammonium sulphate .. ..	10,000	9,800	(a)
Cyanamide .. ..	16,042	(a)	(a)
Switzerland—			
Ammonium sulphate .. ..	512	1,031	(a)
Cyanamide (estimated) .. ..	3,500	2,000	8,000
Yugoslavia—			
Cyanamide .. ..	20,000	21,000	26,000
Algeria—			
Ammonium sulphate .. ..	374	(a)	(a)
United States—			
Sulphate equivalent of ammonia produced (by-product) .. ..	499,000	318,600	446,000
do. (synthetic) .. ..	260,000	386,000	(a)
China (years ended March 30 follow- ing)—			
Ammonium sulphate .. ..	3,200	(a)	(a)
Japan—			
Ammonium sulphate .. ..	374,720	455,954	495,000
Cyanamide (b) .. ..	141,000	155,000	(a)
Korea—			
Ammonium sulphate .. ..	217,812	217,355	(c) 210,000
“ Manchoukuo ”—			
Ammonium sulphate .. ..	20,906	21,465	(a)

(a) Information not available.

(b) It is probable some of this is converted into ammonium sulphate, and is recorded as such.

(c) Estimated.

## ESTIMATED WORLD PRODUCTION AND CONSUMPTION OF NITROGEN

*(In terms of pure Nitrogen)*

(Long tons)

Production	1931	1932	1933
By-product sulphate of ammonia ..	331,000	284,000	280,000
Synthetic sulphate of ammonia ..	436,000	548,000	573,000
Cyanamide .. .. .	168,000	153,000	182,000
Nitrate of lime .. .. .	95,000	95,000	108,000
Other forms of synthetic nitrogen (b)	370,000	395,000	472,000
Other forms of by-product nitrogen (b) .. .. .	30,000	29,000	35,000
Chilean nitrate of soda .. ..	210,000	107,500	68,700
<b>Total production .. ..</b>	<b>1,640,000</b>	<b>1,611,500</b>	<b>1,718,700</b>
<b>Consumption.</b>			
Manufactured nitrogen .. ..	1,397,000	1,520,000	1,659,000
Chilean nitrate of soda .. ..	191,000	134,000	145,000
<b>Total consumption .. ..</b>	<b>1,588,000</b>	<b>1,654,000</b>	<b>1,804,000</b>
Agricultural consumption .. <i>about</i>	1,434,000	1,505,000	1,630,000

*Note.*—Fertilizers are included in this table under the final form as sold.

(b) Including nitrogen products used for industrial purposes, also ammonia in mixed fertilizers.

## EXPORTS OF NITROGEN COMPOUNDS

*(Domestic Produce)*

(Long tons)

Exporting Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Nitrate of potash .. ..	717	994	1,146
Nitrate of soda .. ..	6,320	22,266	17,610
Nitrate of lime .. ..	22	6	36
Ammonium sulphate .. ..	401,897	419,871	323,114
Ammonium chloride .. ..	4,740	4,266	4,275
Ammonium nitrate .. ..	2,341	2,469	3,143
Canada—			
Ammonium sulphate .. ..	5,024	34,590	55,699
British India—			
Nitrate of potash .. ..	6,156	8,289	9,478
Ammonium sulphate .. ..	3,051	303	1,313
British Malaya (including re- exports)—			
Nitrate of potash .. ..	114	185	226
Hong Kong (including re-exports)—			
Nitrate of potash .. ..	112	72	132
Ammonium sulphate .. ..	89,586	72,868	63,846
Ammonium chloride .. ..	21	52	178
Nitrate of soda .. ..	—	—	20
Australia—			
Ammonium sulphate .. ..	210	1	65
New Zealand—			
Liquid ammonia (b) .. ..	(£81)	(£127)	(£40)
FOREIGN COUNTRIES			
Austria—			
Nitrate of potash .. ..	246	305	242
Ammonium sulphate .. ..	1,049	44	4,233
Liquid ammonia .. ..	10	9	11
Belgium-Luxemburg E.U.—			
Nitrate of potash .. ..	15	260	1,243
Nitrate of soda .. ..	14,183	7,512	22,293
Nitrate of lime .. ..	272	2,221	85
Ammonium sulphate .. ..	173,131	159,241	128,594
Ammonium chloride .. ..	381	86	45

(b) £ New Zealand.

## EXPORTS OF NITROGEN COMPOUNDS (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—(cont.)			
Ammonium nitrate .. ..	70	404	1,409
Cyanamide .. ..	1,972	177	47
Liquid ammonia .. ..	171	177	228
Czechoslovakia—			
Nitrate of potash .. ..	85	24	25
Nitrate of soda .. ..	2	36	—
Ammonium sulphate .. ..	3,810	1,778	290
Ammonium chloride .. ..	95	83	46
Liquid ammonia .. ..	14	2	—
France—			
Nitrate of potash—			
Natural .. ..	333	485	575
Synthetic .. ..	3,215	1,732	1,518
Nitrate of soda .. ..	1,998	881	1,326
Nitrate of lime .. ..	1,084	2,987	933
Ammonium nitrate .. ..	103	252	63
Ammonium sulphate .. ..	15,177	13,226	21,410
Cyanamide .. ..	580	346	592
Liquid ammonia .. ..	114	169	231
Germany—			
Nitrate of potash .. ..	35,675	27,982	23,332
Nitrate of soda .. ..	51,075	155,330	28,265
Nitrate of lime, etc. .. ..	(a)	4,346	7,883
Ammonium sulphate .. ..	654,428	380,435	447,441
Ammonium chloride .. ..	22,439	11,274	20,937
Ammonium nitrate, etc. .. ..	7,148	1,978	19,277
Cyanamide .. ..	373	62	45
Liquid ammonia .. ..	2,059	1,114	396
Hungary—			
Nitrates of lime and soda .. ..	33	23	—
Ammonium sulphate and nitrate .. ..	498	552	14,547
Liquid ammonia .. ..	16	13	3
Italy—			
Nitrate of potash .. ..	3	1	1
Nitrate of soda .. ..	21	11	2
Nitrate of lime .. ..	16	381	17
Ammonium nitrate .. ..	1,106	8	20
Ammonium sulphate .. ..	22,521	33,414	10,066
Cyanamide .. ..	48	17	17
Liquid ammonia .. ..	6	20	6

(a) Information not available.

EXPORTS OF NITROGEN COMPOUNDS (*Cont.*)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Netherlands—			
Nitrate of potash .. .. .	295	115	44
Nitrate of soda .. .. .	1,216	8,615	4,808
Nitrate of lime .. .. .	52	167	6
Ammonium sulphate .. .. .	250,663	353,850	293,912
Ammonium chloride .. .. .	14	9	6
Ammonium nitrate .. .. .	1	5	51
Cyanamide .. .. .	133	169	327
Norway—			
Nitrate of soda .. .. .	18,363	62,557	58,301
Nitrate of lime .. .. .	287,095	307,088	391,572
Ammonium nitrate .. .. .	2,294	1,895	2,706
Cyanamide .. .. .	14,265	23,801	16,968
Poland—			
Nitrate of potash .. .. .	1	—	35
Nitrate of soda .. .. .	100	1	37
Nitrate of lime .. .. .	1,768	6,224	3,246
Ammonium chloride .. .. .	83	819	1,289
Ammonium sulphate .. .. .	38,333	49,259	38,602
Cyanamide .. .. .	2,640	1,434	492
Roumania—			
Ammonium chloride .. .. .	25	—	—
Cyanamide .. .. .	1,316	—	—
Spain—			
Nitrates of potash, soda and lime	12	2	11
Ammonium sulphate .. .. .	2	42	17
Cyanamide .. .. .	—	10	—
Sweden—			
Nitrates of potash, soda and lime..	15	3	4
Ammonium sulphate .. .. .	1,723	1,285	—
Liquid ammonia .. .. .	25	42	62
Ammonium nitrate .. .. .	40	3	—
Switzerland—			
Nitrate of potash (crude) ..	15,273	17,786	19,251
Nitrates of potash and soda (purified) .. .. .	3,677	1,483	641
Ammonium sulphate, etc. ..	1,586	4	10
Yugoslavia—			
Nitrate of soda .. .. .	58	—	—
Cyanamide .. .. .	19,368	19,603	25,663

EXPORTS OF NITROGEN COMPOUNDS (*Cont.*)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Algeria—			
Nitrate of soda .. .. .	13	28	} (a)
Nitrate of lime .. .. .	5	48	
Ammonium sulphate .. .. .	16	43	
United States—			
Ammonium sulphate .. .. .	66,902	14,742	14,328
Other nitrogen fertilizers .. .. .	71,712	175,908	102,434
Chile—			
Nitrate of soda .. .. .	1,431,638	239,547	658,663
China—			
Ammonium sulphate .. .. .	11,669	4,887	—
“Manchoukuo” —			
Ammonium sulphate .. .. .	(a)	27,919	33,204

(a) Information not available.



IMPORTS OF NITROGEN COMPOUNDS.  
(Less Re-exports)  
(Long tons)

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Nitrate of potash .. .. .	4,294	5,631	5,210
Nitrate of soda .. .. .	76,823	8,815	240
Nitrate of lime .. .. .	3,434	1,048	1,999
Ammonium sulphate .. .. .	9,085	5,051	1,778
Ammonium chloride .. .. .	3,796	710	1,853
Ammonium nitrate .. .. .	2,040	360	454
<b>Irish Free State—</b>			
Nitrate of potash .. .. .	165	183	212
Nitrate of soda .. .. .	1,219	1,220	985
Ammonium sulphate .. .. .	18,084	29,884	23,515
<b>Mauritius—</b>			
Nitrate of potash .. .. .	2,484	2,897	4,342
Nitrate of soda .. .. .	1,896	—	197
Ammonium sulphate .. .. .	5,734	7,949	13,253
Ammonium phosphate .. .. .	592	492	(a)
<b>Northern Rhodesia—</b>			
Nitrates .. .. .	22	86	127
<b>Nyasaland—</b>			
Nitrates .. .. .	163	(a)	(a)
<b>Southern Rhodesia—</b>			
Nitrates .. .. .	12	50	81
<b>Union of South Africa—</b>			
Nitrate of potash .. .. .	137	168	25
Nitrate of soda .. .. .	19,661	14,677	10,273
Ammonium sulphate .. .. .	2,026	5,857	7,969
Ammonium chloride .. .. .	20	25	30
Liquid ammonia (gallons) .. .. .	9,967	5,634	1,667
<b>Canada—</b>			
Nitrate of potash .. .. .	935	331	298
Nitrate of soda .. .. .	13,616	16,548	14,095
Ammonium sulphate .. .. .	11,455	12,331	3,711
Ammonium chloride .. .. .	876	714	720
Ammonium nitrate .. .. .	245	635	170
<b>British West Indies—</b>			
<b>Barbados—</b>			
Nitrate of soda .. .. .	22	27	87
Ammonium sulphate .. .. .	5,372	6,286	7,268
<b>Trinidad and Tobago—</b>			
Ammonium sulphate .. .. .	(a)	2,854	4,539

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS (*Cont.*)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE ( <i>Cont.</i> )			
British India (total imports)—			
Nitrate of soda .. .. .	1,238	1,767	1,970
Ammonium sulphate .. .. .	14,996	32,640	32,875
British Malaya (total imports)—			
Nitrate of potash .. .. .	139	224	259
Ceylon—			
Nitrate of potash refuse .. .. .	2,942	1,974	873
Nitrate of soda .. .. .	1,599	—	49
Ammonium sulphate .. .. .	12,595	13,426	9,400
Cyprus—			
Ammonium chloride .. .. .	7	—	4
Hong Kong (total imports)—			
Nitrate of potash .. .. .	1,160	751	783
Ammonium sulphate .. .. .	86,270	83,181	79,419
Ammonium chloride .. .. .	56	147	390
Nitrate of soda .. .. .	(a)	30	128
Australia—			
Nitrate of potash .. .. .	480	411	453
Nitrate of soda .. .. .	161	1,818	4,578
Ammonium chloride .. .. .	3,179	779	920
Ammonium sulphate .. .. .	393	15,168	16,187
New Zealand—			
Nitrate of potash .. .. .	77	77	69
Nitrate of soda .. .. .	670	1,720	1,026
Ammonium sulphate .. .. .	4,845	6,234	3,593
Ammonium chloride .. .. .	35	41	30
FOREIGN COUNTRIES			
Austria—			
Nitrate of potash .. .. .	26	1	4
Nitrate of soda .. .. .	2,925	1,540	694
Nitrate of lime .. .. .	5,922	9,391	8,900
Nitrophoska .. .. .	4,097	2,806	2,964
Cyanamide .. .. .	9,099	7,495	8,023
Ammonium nitrate .. .. .	885	432	724
Ammonium sulphate .. .. .	345	486	50
Ammonium chloride .. .. .	176	143	139
Liquid ammonia .. .. .	18	6	1
" Leuna " nitrate .. .. .	1,039	679	94
" Kalkammonsalpeter " .. .. .	—	—	4,874

(a) Information not available.

## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—			
Nitrate of potash .. .. .	2,304	1,908	2,164
Nitrate of soda .. .. .	171,871	14,921	35,304
Nitrate of lime .. .. .	28,501	12,706	5,674
Cyanamide .. .. .	20,105	16,772	14,139
Ammonium sulphate .. .. .	69,549	10,189	285
Ammonium chloride .. .. .	1,137	1,135	1,205
Liquid ammonia .. .. .	10	1	—
Ammonium nitrate .. .. .	962	576	266
Bulgaria—			
Nitrate of potash .. .. .	108	93	67
Nitrate of soda .. .. .	17	1	2
Ammonium nitrate, etc. .. .. .	174	163	107
Ammonium chloride .. .. .	88	112	69
Liquid ammonia .. .. .	25	6	21
Czechoslovakia—			
Nitrate of potash .. .. .	47	2	—
Nitrate of soda .. .. .	5,777	7,360	13,468
Nitrate of lime .. .. .	6,933	29	3,937
Ammonium sulphate .. .. .	4	9	6
Ammonium chloride .. .. .	11	12	9
Cyanamide, etc. .. .. .	34	29	24
Liquid ammonia .. .. .	—	2	—
Denmark—			
Nitrate of potash .. .. .	1,678	1,674	1,172
Nitrate of soda .. .. .	25,175	37,859	33,808
Nitrate of lime .. .. .	58,312	76,293	93,801
Ammonium sulphate .. .. .	44,490	52,520	40,084
Ammonium chloride .. .. .	420	383	353
Cyanamide .. .. .	812	939	813
Nitrophoska .. .. .	3,780	915	1,247
Estonia—			
Nitrate of potash .. .. .	21	21	15
Nitrate of soda .. .. .	546	590	1,362
Nitrate of lime .. .. .	516	702	167
Ammonia sulphate .. .. .	217	424	51
Ammonium chloride .. .. .	8	12	10
Liquid ammonia .. .. .	20	—	—
Nitrophoska .. .. .	277	208	60
Finland (total imports)—			
Nitrate of potash .. .. .	50	40	60
Nitrate of soda .. .. .	974	209	131
Nitrate of lime .. .. .	12,120	9,666	17,280

## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Finland (total imports)—(cont.)			
Ammonium nitrate .....	226	276	246
Ammonium sulphate .. ..	135	1,299	2,127
Ammonium chloride .. ..	16	21	21
Liquid ammonia .. ..	18	37	36
France—			
Nitrate of potash—			
Natural .. .. .	3	—	—
Synthetic .. .. .	176	9	1
Nitrate of soda .. .. .	368,143	299,408	164,070
Nitrate of lime .. .. .	31,363	7,680	64,616
Ammonium nitrate .. .. .	1,223	386	296
Ammonium sulphate .. .. .	20,152	4,438	2
Cyanamide .. .. .	4,850	30	—
Liquid ammonia .. .. .	29	22	26
Germany—			
Nitrate of potash .. .. .	12	—	—
Nitrate of soda .. .. .	70,953	54,342	—
Nitrate of lime, etc. .. .. .	1,340	—	2
Ammonium sulphate .. .. .	53,021	11,414	8,501
Ammonium chloride .. .. .	81	4	12
Ammonium nitrate, etc. .. .. .	285	9,362	5
Cyanamide .. .. .	29	3	—
Liquid ammonia .. .. .	603	151	122
Greece—			
Nitrate of potash .. .. .	132	75	85
Nitrate of soda .. .. .	5,562	678	1,177
Hungary—			
Nitrates of lime and soda .. .. .	361	104	108
Ammonium sulphate and nitrate .. .. .	736	45	32
Cyanamide .. .. .	1,311	42	292
Liquid ammonia .. .. .	70	84	158
Iceland—			
Nitrate of potash .. .. .	7	5	} (a)
Nitrate of lime .. .. .	1,684	1,611	
Nitrophoska .. .. .	1,477	689	

(a) Information not available.

## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—			
Nitrate of potash .. .. .	2,496	1,060	1,137
Nitrate of soda .. .. .	55,481	29,262	38,576
Nitrate of lime .. .. .	362	—	—
Ammonium sulphate .. .. .	5,697	306	40
Ammonium chloride .. .. .	481	353	154
Ammonium nitrate .. .. .	53	—	2
Cyanamide .. .. .	69	3,882	4,393
Latvia—			
Nitrate of potash .. .. .	37	41	51
Nitrate of soda .. .. .	2,901	1,519	6,973
Nitrate of lime .. .. .	2,216	1,683	5,919
Nitrophoska .. .. .	1,087	888	733
Ammonium sulphate .. .. .	1,088	833	2,809
Ammonium chloride .. .. .	20	16	15
Lithuania—			
Nitrate of potash .. .. .	92	100	19
Nitrate of soda .. .. .	1,485	732	1,922
Nitrate of lime .. .. .	285	897	1,477
" Leuna " nitrate .. .. .	220	24	33
Nitrophoska .. .. .	57	3	1
Ammonium sulphate .. .. .	1,075	905	834
Netherlands—			
Nitrate of potash .. .. .	1,435	1,363	1,951
Nitrate of soda .. .. .	48,945	26,788	42,897
Nitrate of lime .. .. .	71,344	13,744	43,562
Ammonium sulphate .. .. .	169,888	137,696	142,168
Ammonium chloride .. .. .	281	386	221
Ammonium nitrate .. .. .	5,639	6,497	45,523
Cyanamide .. .. .	7,948	11,284	11,974
Norway—			
Nitrate of potash .. .. .	117	94	104
Nitrate of soda .. .. .	111	38	11
Nitrophoska .. .. .	2,616	873	613
Ammonium sulphate .. .. .	229	204	132
Poland—			
Nitrate of potash .. .. .	474	197	—
Nitrate of soda .. .. .	658	88	—
Nitrate of lime .. .. .	280	—	—
Ammonium sulphate .. .. .	319	2,125	1,886
Ammonium chloride .. .. .	84	19	4
Cyanamide .. .. .	—	—	33

## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Portugal—			
Nitrate of potash .. .. .	229	281	343
Nitrate of soda .. .. .	3,695	2,550	3,070
Nitrate of lime .. .. .	194	30	555
Ammonium sulphate .. .. .	24,839	38,140	39,375
Ammonium chloride .. .. .	16	28	31
Ammonium nitrate .. .. .	49	—	54
Cyanamide .. .. .	1,361	1,882	2,092
Roumania—			
Nitrate of potash .. .. .	53	44	73
Nitrate of soda .. .. .	135	235	278
Ammonium nitrate .. .. .	208	161	382
Ammonium sulphate .. .. .	100	253	243
Ammonium chloride .. .. .	264	260	325
Liquid ammonia .. .. .	70	100	128
Spain—			
Nitrate of soda (Chilean) .. .. .	101,966	66,688	54,395
Nitrate of potash, soda and lime .. .. .	36,388	56,141	65,546
Ammonium sulphate .. .. .	260,667	433,399	284,550
Cyanamide .. .. .	1,950	1,603	1,094
Sweden—			
Nitrate of potash .. .. .	543	456	396
Nitrate of soda .. .. .	26,354	18,565	20,341
Nitrate of lime .. .. .	26,715	42,151	40,615
Ammonium nitrate .. .. .	298	50	55
Ammonium sulphate .. .. .	3,012	21,316	18,849
Ammonium chloride .. .. .	387	374	311
Liquid ammonia .. .. .	5	2	4
Switzerland—			
Nitrate of potash, crude .. .. .	1,089	1,139	1,988
Nitrates of potash and soda, purified .. .. .	376	287	528
Ammonium sulphate, etc. .. .. .	2,808	1,311	2,349
Ammonium chloride .. .. .	248	211	207
Liquid ammonia .. .. .	52	58	7
U.S.S.R. (Russia)—			
Nitrate of potash .. .. .	2,170	1,352	298
Nitrate of soda .. .. .	123	779	195

(a) Information not available.

## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Yugoslavia—			
Nitrate of potash .. .. .	27	13	11
Nitrate of soda .. .. .	1,609	985	1,474
Ammonium sulphate .. .. .	262	203	203
Ammonium chloride .. .. .	121	103	98
Ammonium nitrate .. .. .	1,359	590	1,093
Liquid ammonia .. .. .	135	169	135
Algeria—			
Nitrate of potash .. .. .	32	312	} 2,666
Nitrate of soda .. .. .	2,030	550	
Nitrate of lime .. .. .	663	319	} 8,748
Ammonium sulphate .. .. .	5,427	6,953	
Cyanamide .. .. .	390	231	(a)
Liquid ammonia .. .. .	12	53	(a)
Cameroon (French)—			
Nitrogen fertilizers .. .. .	27	33	(a)
Canary Islands (total imports)—			
Nitrate of soda (Chilean) .. .. .	1,018	—	} (a)
Nitrates of potash, soda and lime	2,996	1,171	
Ammonium sulphate .. .. .	22,534	26,176	
Egypt—			
Nitrate of soda .. .. .	133,363	75,349	101,375
Nitrate of lime .. .. .	79,132	112,608	125,353
Ammonium sulphate .. .. .	3,420	9,057	13,146
Ammonium chloride .. .. .	355	338	343
Cyanamide .. .. .	562	443	197
Sulphonitrate of ammonia .. .. .	7,898	8,072	9,597
Ammonium nitrate .. .. .	—	1	98
Morocco—			
Nitrogen fertilizers .. .. .	1,831	1,111	956
Réunion—			
Ammonium sulphate .. .. .	(a)	1,445	2,441
Tunis—			
Nitrate of potash .. .. .	6	17	52
Nitrate of soda .. .. .	262	227	118
Ammonium sulphate .. .. .	266	271	147
Martinique—			
Ammonium sulphate .. .. .	2,257	1,480	2,863
Mexico—			
Nitrate of potash and soda .. .. .	4,551	1,897	4,426
Ammonium sulphate .. .. .	259	47	159
Ammonium chloride .. .. .	32	86	151

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS (*Cont.*)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Panama—			
Nitrate of soda .. .. .	187	(a)	(a)
Liquid ammonia .. .. .	13	(a)	(a)
United States—			
Nitrate of potash (b) .. .. .	15,509	17,067	25,593
Nitrate of soda .. .. .	548,459	49,324	121,159
Nitrate of lime (b) .. .. .	28,761	6,860	17,312
Ammonium sulphate (b) .. .. .	114,285	307,311	351,254
Ammonium chloride .. .. .	2,532	1,978	2,814
Cyanamide (b) .. .. .	51,314	62,543	63,842
Ammonium-sulphate-nitrate (b)	3,193	—	1
Ammonium nitrate .. .. .	2,994	2,864	3,527
Argentina—			
Nitrate of potash .. .. .	145	172	110
Nitrate of soda .. .. .	995	1,066	1,817
Ammonium sulphate .. .. .	2	2	16
Liquid ammonia .. .. .	27	21	22
Brazil (total imports)—			
Nitrate of potash .. .. .	1,851	2,966	(a)
Liquid ammonia .. .. .	150	111	(a)
Chile—			
Nitrate and sulphide of potash ..	14	2	(a)
Liquid ammonia .. .. .	36	17	13
Ammonium salts .. .. .	337	294	(a)
Colombia—			
Nitrates of potash and soda ..	17	1	(a)
Peru—			
Liquid ammonia .. .. .	46	28	53
Venezuela—			
Nitrate of potash .. .. .	32	52	(a)
Liquid ammonia .. .. .	2	—	(a)
China—			
Nitrate of potash .. .. .	1,652	1,532	1,029
Nitrate of soda .. .. .	3,298	428	2,165
Ammonium sulphate .. .. .	137,504	111,008	99,655
Ammonium chloride .. .. .	573	409	715
Liquid ammonia .. .. .	(a)	41	30
Formosa—			
Ammonium sulphate .. .. .	107,534	89,660	(a)
Ammophos .. .. .	3,702	741	(a)

(a) Information not available.

(b) Total imports.



## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French Indo-China—			
Nitrate of potash .. ..	59	30	51
Ammonium sulphate .. ..	246	392	853
Other nitrate fertilizers .. ..	240	242	4
Liquid ammonia, etc. .. ..	29	11	15
Japan (total imports)—			
Nitrate of soda .. ..	34,441	23,382	34,350
Ammonium sulphate .. ..	220,608	116,860	106,736
Ammonium chloride .. ..	2,191	1,780	1,355
“ Manchoukuo ”—			
Nitrate of potash .. ..	(a)	129	48
Nitrate of soda .. ..	(a)	788	1,090
Ammonium sulphate .. ..	(a)	4,953	53
Netherlands East Indies—			
Nitrate of potash .. ..	149	49	63
Nitrate of soda .. ..	145	38	30
Ammonium sulphate .. ..	115,466	74,528	28,931
Ammonium chloride .. ..	26	8	8
Liquid ammonia .. ..	267	241	311
Philippine Islands—			
Ammonium sulphate .. ..	31,718	33,436	(a)
Anhydrous ammonia .. ..	(£5,800)	(£4,000)	(a)
Syria and Lebanon—			
Nitrates .. ..	108	400	405
Turkey—			
Liquid ammonia and ammonium chloride .. ..	225	253	(a)

(a) Information not available.

**PETROLEUM AND ALLIED PRODUCTS**

PRODUCTION OF CRUDE PETROLEUM

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom (c) (estimated) .. .. .	143,000	119,000	118,000
Canada (b) .. .. .	195,262	132,204	145,432
Barbados .. .. .	1,131	596	(a)
Trinidad (b) .. .. .	1,334,726	1,387,132	1,309,775
British Borneo (Sarawak) .. .. .	520,395	335,287	321,299
India (b) .. .. .	1,177,679	1,191,529	1,181,502
New Zealand .. .. .	455	931	693
Australia (Victoria) .. .. .	80	80	80
Total ..	3,370,000	3,170,000	3,080,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	—	118	842
Czechoslovakia .. .. .	19,424	18,201	(a)
Estonia (c) .. .. .	15,316	36,017	37,617
France.. .. .	73,018	83,612	88,654
Germany .. .. .	225,315	226,107	229,014
Greece .. .. .	500	500	(a)
Italy (c) .. .. .	18,373	28,100	26,107
Poland .. .. .	620,526	547,700	545,000
Roumania .. .. .	6,649,352	7,232,264	7,259,129
Spain (c) .. .. .	5,608	5,846	(a)
U.S.S.R. (Russia) .. .. .	21,971,100	21,038,200	21,287,000
Yugoslavia .. .. .	199	284	498
Algeria.. .. .	1,063	877	550
Egypt .. .. .	284,848	266,515	233,970
Morocco (French zone) .. .. .	207	266	552
Cuba .. .. .	1,700	(a)	(a)

(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, Mexico 6·6, Trinidad 7·3, India 7·4, United States 7·4, Colombia 7·1, Formosa 7·0.

(c) Including shale-oil.

## PRODUCTION OF CRUDE PETROLEUM—(Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES			
	—(Cont.)		
Mexico (b) .. .. .	5,005,887	4,970,530	5,151,641
United States (b) .. .. .	115,010,900	106,102,500	122,385,900
Argentina (d) .. .. .	1,646,048	1,847,153	1,924,731
Bolivia .. .. .	3,600	6,300	(a)
Colombia (b) .. .. .	2,568,265	2,312,002	1,852,700
Ecuador .. .. .	246,937	280,058	226,000
Peru .. .. .	1,394,321	1,381,820	1,837,673
Venezuela .. .. .	16,920,356	16,815,380	17,000,531
China (c) .. .. .	55,031	(a)	(a)
Formosa .. .. .	7,552	4,845	(a)
Iraq .. .. .	118,374	113,000	113,000
Japan .. .. .	266,909	221,282	200,000
Netherlands East Indies .. .. .	4,623,851	5,012,725	5,440,155
Persia .. .. .	6,338,444	6,445,808	7,086,706
Total .. .. .	184,100,000	175,000,000	193,000,000
WORLD'S TOTAL .. .. .	187,500,000	178,200,000	196,100,000

(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, Mexico 6·6, Trinidad 7·3, India 7·4, United States 7·4, Colombia 7·1, Japan 7·2.

(c) Including shale-oil.

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

## PRODUCTION OF NATURAL GAS

(Thousand cubic feet)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom (estimated) .. ..	7,000	7,000	7,000
Canada .. ..	25,874,723	23,420,174	22,706,125
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	—	2,212	2,356
Czechoslovakia .. ..	34,830	31,806	40,930
France .. ..	10,787	(a)	(a)
Hungary .. ..	(a)	20,218	(a)
Italy .. ..	427,777	454,835	489,910
Poland .. ..	13,889,841	15,432,568	16,315,000
Roumania .. ..	48,842,910	51,419,625	56,280,844
U.S.S.R. (Russia) ( <i>long tons</i> ) .. ..	757,200	882,700	(a)
Yugoslavia .. ..	225,182	(a)	(a)
Mexico .. ..	9,326,495	9,068,721	(a)
United States .. ..	1,686,436,000	1,555,990,000	(a)
Venezuela ( <i>long tons</i> ) (b)			
For producing gaso- line .. ..	683,004	(a)	(a)
For fuel .. ..	223,042	(a)	(a)
For gas lift principle	255,466	(a)	(a)
Japan .. ..	2,705,675	1,810,449	1,554,900
Netherlands East Indies ( <i>long tons</i> )	671,685	887,167	1,000,277

NOTE.—This table is necessarily incomplete owing to the fact that official statistics of production of natural gas are collected by only a few countries. Argentina, Colombia, and the Philippine Islands are amongst other producing countries.

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

(a) Information not available.

(b) Part of these gases may be used for more than one of the purposes shown.

## PRODUCTION OF NATURAL ASPHALT, ETC.

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Barbados (exports of manjak) ..	9	—	24
Trinidad .. .. .	123,138	107,457	111,337
FOREIGN COUNTRIES			
Italy .. .. .	738	417	(a)
Poland (ozokerite) .. .. .	324	639	(a)
Egypt (exports) .. .. .	34,777	42,823	35,594
Cuba .. .. .	9,536	5,218	4,896
United States (sales)—			
Gilsonite .. .. .	29,253	23,174	25,026
Wurtzilite .. .. .	115	22	32
Venezuela .. .. .	(a)	6,626	(a)
Iraq .. .. .	(a)	(a)	8,000

NOTE.—21,121 long tons of natural asphalt and 4,837 long tons of ozokerite were recorded as produced in U.S.S.R. (Russia) during the year ended September, 1928—later figures are not available.

(a) Information not available.

## PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES			
Czechoslovakia .. .. .	995	136	(a)
France .. .. .	71,188	47,018	36,994
Germany .. .. .	68,270	32,800	(a)
Italy .. .. .	186,786	126,278	48,861
Spain .. .. .	5,054	6,200	(a)
Switzerland (exports) .. .. .	15,089	6,831	5,286
Yugoslavia .. .. .	124	125	141
United States (sales) .. .. .	420,081	280,392	254,527
Netherlands East Indies .. .. .	2,356	837	6,667

NOTE.—26,731 long tons of asphalt rock were recorded as produced in U.S.S.R. (Russia) during year ended September, 1928—later figures are not available.

(a) Information not available.

## PRODUCTION OF OIL-SHALE

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	1,732,746	1,368,596	1,396,988
Australia .. .. .	3,533	1,097	3,401
FOREIGN COUNTRIES			
Austria .. .. .	327	316	213
Estonia .. .. .	393,185	493,880	499,969
France (including boghead coal) .. .. .	77,113	86,582	(a)
Germany (Bavaria) .. .. .	411	395	(a)
Italy .. .. .	9,236	7,163	11,177
Spain .. .. .	54,733	63,119	(a)
" Manchoukuo " .. .. .	1,225,429	1,390,245	(a)

Oil-shale is also produced in Russia and China.

(a) Information not available.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN  
COUNTRIES

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom*—			
Motor spirit .. .. .	590,921	522,364	489,761
Other spirit .. .. .	68,544	55,961	67,875
Kerosene .. .. .	194,022	156,353	139,578
Gas oil .. .. .	136,535	141,854	191,723
Fuel and diesel oil .. .. .	775,144	636,476	552,720
Lubricating oil .. .. .	76,060	76,296	76,248
Other oils .. .. .	25,156	21,068	40,852
Solid products .. .. .	385,697	376,321	402,297
Canada*—			
Motor spirit .. .. .	1,540,739	1,311,268	1,386,678
Other spirit .. .. .	27,841	59,612	111,538
Kerosene .. .. .	143,511	191,000	178,285
Fuel and gas oil .. .. .	1,715,014	1,465,096	1,721,256
Lubricating oil .. .. .	60,848	60,576	68,999
Grease .. .. .	4,192	4,299	3,723
Paraffin wax and candles .. .. .	4,508	4,105	4,017
Coke .. .. .	64,588	65,237	66,719
Asphalt .. .. .	172,441	104,919	98,308
India*—			
Motor fuel .. .. .	209,237	223,000	231,214
Kerosene, etc. .. .. .	592,172	581,000	501,919
Fuel oil, etc. .. .. .	161,891	(a)	(a)
Lubricating oil .. .. .	36,771	(a)	(a)
Other oils .. .. .	23,908	(a)	(a)
Greases .. .. .	13	(a)	(a)
Paraffin wax .. .. .	49,397	(a)	(a)
FOREIGN COUNTRIES			
France—			
Motor spirit .. .. .	92,314	318,424	748,345
Kerosene .. .. .	26,708	47,247	112,827
Gas oil .. .. .	52,152	93,553	258,357
Fuel oil .. .. .	89,961	185,254	665,130
Lubricating oil .. .. .	46,490	59,318	121,322
Road oil .. .. .	75,420	143,255	217,875
Paraffin wax .. .. .	881	732	3,166
Coke .. .. .	4,486	6,401	9,217
Pitch .. .. .	79,639	149,155	(a)

\* See note on page 271.

(a) Information not available.

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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Germany—			
Motor spirit .. .. .	397,500	408,700	} (a)
Kerosene .. .. .	13,600	19,900	
Gas oil, etc. .. .. .	122,800	144,200	
Lubricating oil .. .. .	308,700	296,100	
Paraffin wax, jelly, etc. .. .. .	11,900	(a)	
Other products .. .. .	264,900	(a)	
Italy—			
Motor spirit .. .. .	130,890	154,395	160,447
Other spirit .. .. .	23,173	32,125	41,519
Gas oil and diesel oil .. .. .	16,936	23,018	22,223
Fuel oil .. .. .	92,013	125,445	136,234
Lubricating oil .. .. .	17,500	21,592	24,703
Other heavy oils .. .. .	3,404	1,834	2,599
Paraffin wax .. .. .	523	645	763
Coke .. .. .	32,536	31,157	33,880
Residuum .. .. .	11,050	11,455	14,632
Latvia—			
Motor spirit .. .. .	194	256	722
Kerosene .. .. .	1,392	302	1,180
Lubricating oils, etc. .. .. .	3,236	836	888
Poland—			
Motor spirit .. .. .	101,600	127,993	130,714
Kerosene .. .. .	172,669	157,848	171,580
Gas oil .. .. .	113,784	103,691	99,841
Lubricating oil .. .. .	84,032	72,492	79,083
Paraffin wax .. .. .	31,089	27,106	28,779
Coke .. .. .	8,801	7,586	6,613
Asphalt .. .. .	21,588	18,836	21,834
Roumania—			
Motor spirit .. .. .	1,455,033	1,594,218	1,585,219
White spirit .. .. .	80,223	131,048	112,200
Kerosene .. .. .	1,146,508	1,052,369	1,024,285
Gas oil .. .. .	833,982	1,041,479	1,143,793
Fuel oil (b) .. .. .	2,229,957	2,269,660	2,409,441
Lubricating oil .. .. .	87,229	71,439	72,256
Paraffin wax .. .. .	7,857	7,134	8,097
Coke .. .. .	11,384	19,666	21,218
Asphalt .. .. .	32,723	37,938	58,371
Other products .. .. .	1,645	484	18,161

(a) Information not available.

(b) Excluding amount consumed at the refineries.



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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Motor spirit .. .. .	5,909	6,838	10,800
Kerosene .. .. .	305	1,051	} (a)
Fuel oil .. .. .	5,878	(a)	
Asphalt .. .. .	15,894	12,129	
U.S.S.R. (Russia)—			
Motor spirit .. .. .	2,712,100	2,835,900	} (a)
Kerosene .. .. .	3,800,400	3,504,100	
Gas oil .. .. .	(a)	703,400	
Fuel oil .. .. .	(a)	8,395,600	
Lubricating oil .. .. .	642,200	669,300	
Asphalt .. .. .	(a)	106,600	
Paraffin wax .. .. .	(a)	15,100	
Egypt—			
Motor spirit .. .. .	80,880	88,132	} (a)
Kerosene .. .. .	24,268	19,498	
Gas oil .. .. .	13,331	13,196	
Fuel oil .. .. .	186,944	156,787	
Diesel oil .. .. .	3,341	3,908	
Asphalt .. .. .	40,028	57,269	
Mexico—			
Motor spirit .. .. .	483,115	538,525	786,525
Kerosene .. .. .	276,309	219,673	191,545
Fuel oil .. .. .	1,706,250	1,879,792	2,366,979
Gas oil .. .. .	197,615	244,192	351,885
Lubricating oil .. .. .	65,380	80,920	69,720
Paraffin wax .. .. .	40,758	30,682	19,777
Coke .. .. .	—	1,955	3,391
Asphalt .. .. .	166,911	138,803	149,031
United States*—			
Motor spirit .. .. .	50,231,885	45,847,016	46,125,295
Kerosene .. .. .	5,402,219	5,579,127	6,226,310
Gas oil and fuel oil distillates .. .. .	11,743,480	9,725,380	} 45,764,104
Residual fuel oil .. .. .	36,908,229	32,786,250	
Lubricants .. .. .	3,738,560	3,140,620	3,332,700
Paraffin wax .. .. .	213,030	204,784	209,625
Coke .. .. .	1,814,286	1,597,143	1,407,143
Asphalt .. .. .	2,657,589	2,209,749	1,980,000
Road oil .. .. .	724,780	963,060	(a)
Special naphthas .. .. .	118,541	(a)	(a)
Petroleum jelly .. .. .	60,700	(a)	(a)
Carbon black .. .. .	125	108	(a)

\* See note on page 271.

(a) Information not available.

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

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Argentina—			
Kerosene .. .. .	51,457	106,019	} (a)
Motor spirit .. .. .	493,968	562,171	
Fuel oil (b) .. .. .	1,106,354	1,033,722	
Gas oil and diesel oil (b) .. .. .	180,304	210,393	
Ecuador—			
Motor spirit .. .. .	4,972	} (a)	5,873
Kerosene .. .. .	1,781		1,706
Diesel oil .. .. .	1,454		2,930
Gas oil .. .. .	(a)		558
Lubricating oil .. .. .	(a)		147
Residuum .. .. .	(a)		12,913
Peru—			
Motor spirit .. .. .	230,542	307,604	} (a)
Kerosene .. .. .	55,984	83,510	
Fuel oil .. .. .	271,194	256,000	
Lubricating oil .. .. .	4,564	4,242	
Coke .. .. .	435	319	
Asphalt .. .. .	228	217	
Formosa—			
Motor spirit .. .. .	21,483	15,824	} (a)
Kerosene .. .. .	2,300	1,450	
Japan—			
Motor spirit .. .. .	211,699	268,034	} (a)
Kerosene .. .. .	49,123	65,413	
Gas oil .. .. .	162,734	187,535	
Lubricating oil .. .. .	144,630	146,505	
“Manchoukuo”—			
Heavy oil .. .. .	39,839	42,592	} (a)
Paraffin wax .. .. .	12,440	13,678	
Coke .. .. .	3,391	3,540	
Netherlands East Indies—			
Motor spirit .. .. .	1,388,667	1,299,757	} (a)
Kerosene .. .. .	639,450	699,119	
Gas and fuel oil .. .. .	1,422,567	1,664,258	
Lubricating oil .. .. .	26,386	19,304	
Batching oil .. .. .	—	11,115	
Paraffin wax .. .. .	52,828	47,968	
Coke .. .. .	(a)	918	
Asphalt .. .. .	8,793	7,131	

(a) Information not available.

(b) Includes imports. See page 300.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS\*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Crude petroleum .. .. .	90	—	—
Motor spirit, etc. .. .. .	111,774	123,216	154,901
Kerosene .. .. .	41,834	32,216	33,528
Gas oil .. .. .	20,023	34,424	72,349
Fuel oil .. .. .	38,444	29,518	51,572
do (bunkers) (b) .. .. .	771,369	723,949	1,025,077
Lubricating oil .. .. .	24,113	28,409	26,568
Other refined oils .. .. .	1,191	475	329
Mineral jelly .. .. .	258	474	485
Paraffin wax .. .. .	9,973	5,931	5,704
Irish Free State—			
Lubricating oil .. .. .	38	29	33
Malta—			
Fuel oil and motor spirit (bunkers) (b) .. .. .	710	619	1,028
Kenya and Uganda—			
(Foreign produce, bunkers)			
Motor spirit .. .. .	11	38	63
Kerosene .. .. .	4	3	3
Fuel oil .. .. .	23,707	29,357	43,064
Lubricating .. .. .	15	11	15
Sierra Leone—			
Petroleum (bunkers) (b) .. .. .	6	57	38
Union of South Africa—			
(Foreign produce, bunkers)			
Motor spirit .. .. .	1	1	7
Kerosene .. .. .	10	5	11
Lubricating oil .. .. .	98	77	77
Fuel oil .. .. .	35,126	39,048	42,790
Canada—			
Crude petroleum .. .. .	58,762	26,344	38,480
Motor spirit .. .. .	18,035	13,801	13,256
Kerosene, etc. .. .. .	1,834	3,217	3,624
Mineral wax .. .. .	423	1,065	112
Other mineral oils .. .. .	3,540	31,691	51,756

\* The following rates have been used for converting Imperial gallons to long tons :—Motor spirit 305, Kerosene 275, Gas oil 260, Diesel oil 256, Fuel oil 240, Lubricating oil 250.

(b) Foreign produce. See imports.

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

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
British West Indies—			
Barbados—			
Manjak .. .. .	9	—	24
Trinidad and Tobago—			
Crude petroleum .. .. .	363,879	374,628	160,075
Motor spirit .. .. .	207,437	222,593	243,241
Kerosene .. .. .	5,141	7,801	10,497
Fuel oil .. .. .	648,557	729,963	805,813
Lubricating oil .. .. .	44	49	32
Road oil .. .. .	1,898	1,265	1,964
Asphalt—			
Crude .. .. .	9,250	3,700	—
Dried .. .. .	70,999	39,486	44,600
Cement (asphalt content) .. .. .	14,335	9,493	7,528
Aden (including re-exports)—			
Motor spirit .. .. .	70	95	35
Kerosene .. .. .	264	236	266
Other mineral oils .. .. .	85	125	137
British Borneo—			
Sarawak—			
Crude petroleum .. .. .	94,849	127,763	128,684
Motor spirit .. .. .	128,401	94,474	78,990
Kerosene .. .. .	38,141	50,379	34,404
Fuel oil .. .. .	202,939	196,422	245,451
Lubricating oil .. .. .	—	40	—
Solar oil .. .. .	46,549	50,967	81,134
Brunei—			
Crude petroleum .. .. .	4,326	176,275	280,523
British India—			
Motor spirit, kerosene, etc. .. .. .	18,761	16,119	16,829
Fuel oil (bunkers) (b) .. .. .	(d) 35,719	50,515	54,170
Paraffin wax .. .. .	51,602	47,108	51,763
British Malaya (including re-exports)—			
Motor spirit .. .. .	282,450	272,128	257,314
Kerosene .. .. .	70,035	69,392	66,316
Fuel oil .. .. .	103,675	89,358	82,717
do. (bunkers) .. .. .	243,079	203,083	158,158

(b) Foreign produce. See imports.

(d) July–December only.

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

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
British Malaya (including re-exports)—(cont.)			
Lubricating oil .. .. .	3,074	2,504	426
Other petroleum oils .. .. .	99	131	86
Paraffin wax .. .. .	98	115	97
Asphalt and bitumen .. .. .	627	805	383
Ceylon (b)—			
Crude petroleum (bunkers) .. .. .	184,473	206,657	221,846
Hong Kong (including re-exports)—			
Motor spirit .. .. .	19,894	23,416	27,813
Kerosene .. .. .	101,309	86,345	54,487
Fuel and diesel oil .. .. .	55,946	67,440	108,493
Lubricating oil .. .. .	5,755	6,883	5,761
Other petroleum oils .. .. .	33	19	21
Greases .. .. .	141	178	193
Petroleum jelly .. .. .	355	76	48
Paraffin wax .. .. .	9,585	9,398	10,864
Australia (including re-exports)—			
Crude petroleum .. .. .	1,094	—	—
Motor spirit, etc. .. .. .	303	66	135
Kerosene .. .. .	2,707	4	7
Lubricating oil .. .. .	777	21	55
Residual and solar oils .. .. .	228	17	87
Greases .. .. .	178	299	95
Paraffin wax, etc. .. .. .	1	—	15
New Zealand—			
Fuel oil (bunkers) (b) .. .. .	75,860	60,147	73,195
FOREIGN COUNTRIES			
Austria—			
Motor spirit .. .. .	8	118	69
Kerosene .. .. .	133	6	4
Lubricating oils and greases .. .. .	47	85	36
Petroleum jelly and paraffin wax .. .. .	11	8	11
Ozokerite and ceresin .. .. .	61	36	93
Asphalt products .. .. .	486	435	424
Petroleum coke .. .. .	—	—	151

(b) Foreign produce. See imports.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—			
Crude petroleum .. .. .	31,179	25,799	36,125
Motor spirit .. .. .	327	219	124
Kerosene .. .. .	116	75	42
Lubricating oil .. .. .	78,832	25,148	1,767
do. (bunkers) .. .. .	1,131	542	321
Fuel oil, etc. .. .. .	44,000	23,129	663
do. (bunkers) .. .. .	11,831	22,085	416
Other heavy oils .. .. .	138	59	11
Petroleum jelly .. .. .	1,529	1,256	1,407
Paraffin wax .. .. .	5,352	3,302	4,696
Ozokerite and ceresin .. .. .	145	123	97
Asphalt, bitumen, etc. .. .. .	2,505	3,174	2,395
Residual asphalt .. .. .	252	520	204
Bulgaria—			
Lubricating oil .. .. .	10	2	3
Czechoslovakia—			
Crude oils .. .. .	34	—	—
Motor spirit, etc. .. .. .	1	—	13
Kerosene, etc. .. .. .	548	—	32
Lubricating oil, etc. .. .. .	3,926	5,505	3,962
Paraffin wax .. .. .	2,591	1,377	1,012
Ozokerite and ceresin .. .. .	400	320	206
Asphalt products .. .. .	469	144	45
Denmark—			
Crude residual oils .. .. .	102	100	164
Lubricating oil .. .. .	290	387	271
Paraffin wax, etc. .. .. .	32	48	71
Estonia—			
Shale oil .. .. .	2,274	3,420	6,082
Motor spirit .. .. .	510	741	1,550
Oil-shale .. .. .	40	—	56
Bitumen and tar .. .. .	114	344	788
France—			
Crude petroleum .. .. .	38	34	12
Motor spirit .. .. .	369	5,925	8,018
Kerosene .. .. .	65	970	10,559
Kerosene and motor spirit—			
Bunkers (domestic produce) .. .. .	567	297	(a)
Bunkers (foreign produce) .. .. .	15,992	13,435	(a)

(a) Information not available.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
France—(cont.)			
Lubricating oil .. .. .	2,935	2,840	(c) 18,812
Gas oil .. .. .	52	784	(c) 43,664
Fuel oil .. .. .	47	20,880	(c) 113,137
Road oil, etc. .. .. .	3,009	20,040	(c) 29,409
Petroleum coke, etc. .. .. .	467	1,499	1,615
Heavy and residual oils—			
Bunkers (domestic produce) ..	8,833	24,732	(a)
Bunkers (foreign produce) ..	509,042	638,241	(a)
Petroleum jelly .. .. .	98	71	58
Paraffin wax .. .. .	19	13	178
Ozokerite and ceresin .. .. .	219	131	127
Asphalt and bitumen .. .. .	25,922	14,774	16,810
Germany—			
Crude petroleum .. .. .	203	—	—
Motor spirit .. .. .	9,818	17,148	7,752
Kerosene .. .. .	31	33	10
Gas oil .. .. .	17,902	6,956	3,937
do. (bunkers for foreign ships)	4,304	15,056	27,182
Fuel oil .. .. .	942	1,297	602
do. (bunkers for foreign ships)	7,243	1,983	4,207
Lubricating oil .. .. .	96,300	80,381	76,118
do. (bunkers for foreign ships)	1,327	484	110
Paraffin wax .. .. .	264	286	249
Ozokerite, etc. .. .. .	5,455	3,982	4,905
Asphalt .. .. .	11,688	3,747	3,170
Hungary—			
Motor spirit .. .. .	12	370	806
Gas oil .. .. .	252	21	4
Lubricating oil .. .. .	800	489	634
Paraffin wax .. .. .	1	—	10
Asphalt, bitumen and tar .. .. .	150	35	3
Italy—			
Crude petroleum (c) .. .. .	77	365	299
Motor spirit (c) .. .. .	1,967	1,957	2,080
Kerosene (c) .. .. .	139	39	37
Lubricating oil (c) .. .. .	3,613	8,154	8,743
Other oils and residues (c) .. .. .	9,289	6,072	2,142
Paraffin wax .. .. .	7	1	2
Ceresin .. .. .	44	61	68
Asphalt and bitumen .. .. .	44,513	33,658	23,350
Petroleum jelly .. .. .	8	8	7

(a) Information not available.

(c) Including bunkers for foreign ships.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Latvia—			
Crude petroleum .. .. .	12	—	—
Kerosene .. .. .	23	—	1
Fuel oil .. .. .	472	3	4
Lubricating oil .. .. .	1,763	138	387
Netherlands—			
Crude petroleum .. .. .	84	2	4
Motor spirit .. .. .	109	33	24
Kerosene .. .. .	20	29	4
Gas oil .. .. .	5,281	3,085	329
do. (bunkers) .. .. .	28,793	22,309	45,529
Fuel oil .. .. .	6,806	7,787	9,041
do. (bunkers) .. .. .	50,126	70,522	65,778
Lubricating oil .. .. .	567	770	557
Greases .. .. .	274	345	27
Petroleum jelly .. .. .	124	142	613
Paraffin wax .. .. .	3,525	4,675	3,612
Ozokerite and ceresin .. .. .	25	9	12
Asphalt .. .. .	86,246	46,112	42,270
Natural asphalt .. .. .	1,087	212	141
Norway—			
Lubricating oils .. .. .	4,831	2,270	2,832
Asphalt .. .. .	108	250	14
Poland—			
Motor spirit .. .. .	61,345	35,044	49,311
Kerosene .. .. .	28,621	36,796	44,655
Fuel oil and gas oil .. .. .	35,297	37,518	27,748
Lubricating oils .. .. .	20,755	29,183	31,404
Greases .. .. .	170	127	79
Paraffin wax .. .. .	21,569	19,732	21,827
Ceresin and ozokerite .. .. .	445	576	490
Asphalt rock .. .. .	—	—	20
Mastic asphalt .. .. .	32	7	—
Other asphalt and tar .. .. .	9,339	11,826	13,184
Portugal—			
Fuel oil (bunkers) .. .. .	18	11	676
Roumania—			
Crude petroleum .. .. .	82,967	154,094	233,262
Motor spirit .. .. .	1,520,368	1,613,353	1,729,465
Kerosene .. .. .	1,028,972	906,374	935,783
Fuel oil .. .. .	1,891,932	2,319,379	2,782,354
Residual oils .. .. .	59,683	57,909	58,424
Paraffin wax .. .. .	5,433	4,538	5,514



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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Roumania—(cont.)			
Tar and pitch .. .. .	20,495	29,894	40,901
Greases .. .. .	24	12	3
Asphalt and bitumen .. .. .	311	1,317	5
Petroleum coke .. .. .	9	146	60
Spain—			
Motor spirit .. .. .	1,307	496	786
Kerosene .. .. .	220	73	8
Gas oil .. .. .	371	57	705
Fuel oil .. .. .	8,469	1,328	3,414
Lubricating oil .. .. .	102	35	50
Residual pitch .. .. .	148	45	—
Sweden—			
Motor spirit .. .. .	560	221	1,206
Kerosene .. .. .	5,073	5,359	12,187
Fuel oil and gas oil .. .. .	1,570	9,335	5,883
Lubricating oil .. .. .	558	1,483	836
Other refined oils .. .. .	6	5	9
Paraffin wax .. .. .	18	4	4
Asphalt .. .. .	472	279	54
Pitch .. .. .	7,606	3,223	6,952
Switzerland—			
Lubricating oil and grease .. .. .	330	136	174
Asphalt and bitumen .. .. .	15,089	6,831	5,286
Paraffin wax and ceresin .. .. .	19	7	5
U.S.S.R. (Russia)—			
Crude petroleum .. .. .	376,139	517,609	517,218
Motor spirit .. .. .	1,580,110	1,941,229	1,240,180
Kerosene .. .. .	689,785	815,687	561,320
Fuel oil .. .. .	1,744,744	1,914,374	1,607,827
Gas oil .. .. .	425,843	543,382	567,176
Solar oil .. .. .	42,987	44,416	38,824
Ligroin (naphtha) .. .. .	49,809	44,461	35,318
Lubricating oil .. .. .	225,022	184,254	236,200
Ozokerite .. .. .	404	390	656
Asphalt .. .. .	728	11,090	28,994
Paraffin wax .. .. .	—	—	5,445
Yugoslavia—			
Motor spirit .. .. .	66	3	3
Lubricating oil .. .. .	328	49	14
Algeria—			
Motor spirit .. .. .	79	34	(a)
Kerosene .. .. .	91	145	(a)

(a) Information not available.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Algeria—(cont.)			
Gas oil .. .. .	547	427	} (a)
Fuel oil .. .. .	5	588	
Lubricating oils .. .. .	322	944	
Road oils, etc. .. .. .	—	333	
Asphalt and bitumen .. .. .	39	83	
Belgian Congo—			
Motor spirit .. .. .	714	411	38
Kerosene .. .. .	116	98	38
Other oils and greases .. .. .	139	213	281
Canary Islands (d)—			
Motor spirit .. .. .	17,291	12,832	} (a)
Kerosene .. .. .	5,296	6,218	
Gas oil .. .. .	4,305	9	
Fuel oil .. .. .	63,431	41,214	
Cape Verde Islands—			
Fuel oil (bunkers) (d) .. .. .	123,566	203,000	(a)
Egypt—			
Motor spirit .. .. .	51,944	61,606	40,263
Kerosene .. .. .	1,083	729	538
Fuel oil .. .. .	20,863	1,342	1,445
do. (bunkers) .. .. .	65,795	92,361	73,876
Lubricating oil .. .. .	71	60	52
Asphalt, etc. .. .. .	34,777	42,823	35,594
French West Africa—			
Senegal (including re-exports)—			
Motor spirit (bunkers) .. .. .	29	(a)	
Fuel oil (bunkers) .. .. .	117,415	300,815	247,438
Spanish Africa (d)—			
Ceuta—			
Gas oil .. .. .	17	—	} (a)
Fuel oil .. .. .	2,306	4,209	
do. (bunkers) .. .. .	22,721	27,114	
Lubricating oil .. .. .	25	3	
Melilla—			
Motor spirit .. .. .	10	—	
Kerosene .. .. .	26	13	
Fuel oil .. .. .	10	18	
Lubricating oil .. .. .	81	57	
Cuba (including re-exports)—			
Natural asphalt .. .. .	13,429	9,711	2,526

(a) Information not available.

(d) Foreign produce. See imports.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Mexico (c)—			
Crude petroleum .. .. .	1,554,111	1,476,490	1,703,119
Motor spirit .. .. .	215,420	244,715	259,910
Kerosene .. .. .	168,885	128,656	72,991
Fuel oil .. .. .	954,819	1,107,710	822,679
Gas oil .. .. .	149,446	148,300	194,630
Lubricating oils .. .. .	48,561	55,671	49,538
Asphalt .. .. .	(b) 168,783	(b) 132,373	136,385
Netherlands West Indies—			
Crude petroleum .. .. .	997,841	1,069,158	} 8,900,000
Motor spirit .. .. .	2,029,172	1,963,729	
Kerosene .. .. .	44,044	163,583	
Gas oil (c) .. .. .	1,156,062	1,127,990	
Fuel oil (c) .. .. .	8,574,980	7,851,228	
Diesel oil (c) .. .. .	195,121	239,836	
Lubricating oil .. .. .	134,273	112,911	(a)
St. Pierre and Miquelon—			
Motor spirit .. .. .	400	500	(a)
Gas oil and fuel oil (bunkers) ..	2,000	2,000	(a)
United States—			
Crude petroleum .. .. .	3,450,697	3,701,477	4,943,803
Motor spirit .. .. .	5,024,683	3,881,282	2,983,111
Natural gasolene .. .. .	(a)	35,000	190,000
Kerosene .. .. .	1,595,253	1,383,054	1,115,371
Gas and fuel oil .. .. .	3,722,346	2,496,404	2,583,720
do. (bunkers) .. .. .	6,119,939	5,341,336	4,518,029
Lubricating oils .. .. .	1,126,891	977,547	1,140,648
Turpentine substitutes .. .. .	6,100	5,408	6,892
Residual oils .. .. .	2,884	—	—
Greases .. .. .	33,072	28,914	32,758
Paraffin wax .. .. .	129,681	105,028	110,866
Petroleum jelly .. .. .	4,939	4,553	5,253
Asphalt, bitumen, etc. .. .. .	274,175	194,974	194,498
Petroleum coke .. .. .	49,979	79,777	169,991
Argentina—			
Fuel oil .. .. .	1,559	63,933	122,750

(a) Information not available.

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

(c) Including bunkers.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Chile—			
Crude petroleum .. ..	1,617	1,644	} 1,102
do. (bunkers) (d) .. ..	7,628	1,958	
Motor spirit (c) .. ..	12	48	9
Kerosene (c) .. ..	129	7	5
Fuel oil .. ..	1,651	1,772	857
do. (bunkers) (d) .. ..	631	(a)	} (a)
Lubricating oils (c) .. ..	122	23	
Greases .. ..	3	—	
Tar and pitch .. ..	17	59	
Colombia—			
Crude petroleum .. ..	2,338,053	2,176,414	2,339,000
Ecuador—			
Crude petroleum .. ..	189,053	189,625	(a)
Motor spirit .. ..	817	260	(a)
Peru—			
Crude petroleum .. ..	796,624	605,896	975,164
Motor spirit .. ..	265,665	353,349	349,733
Kerosene .. ..	20,580	14,061	30,219
Gas oil .. ..	—	—	45,336
Fuel oil .. ..	56,822	94,237	110,203
do. (bunkers) .. ..	40,344	40,079	51,090
Lubricating oil .. ..	758	876	706
Venezuela—			
Crude petroleum .. ..	17,006,834	15,936,306	} (a)
Motor spirit .. ..	41,101	41,182	
Kerosene .. ..	65	29	
Gas oil .. ..	39,829	37,678	
Fuel oil .. ..	—	622,645	
Asphalt .. ..	19,833	122	
China—			
Shale oil .. ..	36,008	21,371	—
Formosa—			
Motor spirit .. ..	10,017	5,095	} (a)
Kerosene .. ..	860	480	
Lubricating oil .. ..	120	73	
Other light oils .. ..	1,000	1,000	
French Indo-China—			
Motor spirit, etc. .. ..	7	6	15
Fuel oil .. ..	20	12	8
Heavy oils, etc. .. ..	167	101	133

(a) Information not available.

(c) Including bunkers.

(d) On national ships only.

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

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Iraq (b)—			
Motor spirit .. .. .	12	82	950
Kerosene .. .. .	5	12	21
Fuel oil .. .. .	33	37	—
Lubricating oil .. .. .	209	81	61
Japan—			
Kerosene .. .. .	2,687	9,620	4,084
Other oils .. .. .	3,048	11,459	18,721
"Manchoukuo"—			
Shale oil .. .. .	(a)	40,315	50,422
Paraffin wax .. .. .	(a)	14,415	16,827
Netherlands East Indies—			
Crude petroleum .. .. .	63,190	244,065	406,187
Motor spirit .. .. .	1,144,571	1,131,158	1,222,273
Kerosene .. .. .	412,280	443,972	522,470
Fuel and motor oils .. .. .	1,364,632	1,656,939	1,743,029
do. (bunkers) .. .. .	308,397	325,075	328,599
Batching oil .. .. .	14,716	10,680	12,935
Lubricating oil .. .. .	25,932	17,660	20,547
Greases .. .. .	234	268	236
Paraffin wax .. .. .	40,652	38,360	50,774
Asphalt .. .. .	236	147	828
Turpene .. .. .	6,829	5,695	8,773
Persia (including re-exports) (d)—			
Crude petroleum .. .. .	1,557,049	820,674	1,316,870
Motor spirit .. .. .	1,042,893	1,181,645	1,476,386
Kerosene .. .. .	533,573	404,907	274,635
Fuel oil .. .. .	2,199,908	2,789,692	2,633,485
Lubricating oil .. .. .	45	6	16
Syria and Lebanon—			
Asphalt and bitumen .. .. .	2,975	333	1,675
Turkey—			
Motor spirit .. .. .	4	—	} (a)
Kerosene .. .. .	11	—	
Fuel oil .. .. .	15	3	
Lubricating oil .. .. .	48	31	
Ozokerite .. .. .	4	—	

(a) Information not available.

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

(d) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS\*

(Less Re-exports)

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Crude petroleum .. .. .	1,405,592	1,507,652	1,601,575
Oil shale .. .. .	—	147	—
Motor spirit, etc. .. .. .	2,878,309	3,071,645	3,506,998
Kerosene .. .. .	931,716	749,220	627,792
Fuel oil .. .. .	2,003,465	2,055,811	2,360,467
Gas oil .. .. .	315,282	365,596	433,416
Lubricating oil .. .. .	380,413	332,097	386,007
Other petroleum oils .. .. .	773	2,615	1,033
Mineral jelly .. .. .	3,201	4,542	5,852
Paraffin wax .. .. .	53,904	54,814	52,164
Ozokerite .. .. .	847	575	723
Asphalt and bitumen .. .. .	161,230	114,106	88,059
Irish Free State—			
Motor spirit .. .. .	130,791	98,924	105,903
Kerosene .. .. .	54,039	58,019	50,158
Fuel oil and gas oil .. .. .	14,352	22,823	20,594
Lubricating oil .. .. .	9,709	10,061	9,149
Paraffin wax .. .. .	5,132	4,531	4,253
Asphalt and bitumen .. .. .	18,852	19,425	15,865
Malta—			
Motor spirit .. .. .	10,142	8,455	11,477
Petroleum .. .. .	20,370	20,274	20,989
Fuel oil (b) (total imports) .. .. .	37,830	17,545	5,630
Gas oil .. .. .	2,998	44	76
Anglo-Egyptian Sudan—			
Petroleum .. .. .	4,663	4,180	4,172
Motor spirit .. .. .	6,511	5,950	5,721
Fuel oil .. .. .	14,318	10,359	9,609
Lubricating oil, etc. .. .. .	1,388	996	1,041
Asphalt, etc. .. .. .	(a)	269	538
Gambia—			
Motor spirit .. .. .	358	292	360
Kerosene .. .. .	146	152	133
Fuel oil .. .. .	194	171	221
Lubricating oil .. .. .	60	47	44

\* The following rates have been used for converting Imperial gallons to long tons:—Motor spirit 305, Kerosene 275, Gas oil 260, Diesel oil 256, Fuel oil 240, Lubricating oil 250, Crude petroleum 245.

(a) Information not available.

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

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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Gold Coast—			
Motor spirit .. .. .	14,179	12,054	13,086
Kerosene .. .. .	8,425	7,470	6,327
Fuel oil .. .. .	2,522	7,307	3,881
Lubricating oil .. .. .	1,552	1,489	1,548
Kenya and Uganda—			
Motor spirit .. .. .	16,964	15,077	13,629
Kerosene .. .. .	7,695	8,138	5,854
Fuel oil .. .. .	13,137	16,717	40,575
Lubricating oil .. .. .	1,869	1,313	1,317
Greases .. .. .	177	86	101
Mauritius—			
Motor spirit .. .. .	4,154	3,174	4,145
Kerosene .. .. .	2,358	2,783	1,655
Lubricating oils, etc. .. .. .	583	450	516
Fuel oil .. .. .	98	165	139
Refined motor grease .. .. .	49	36	35
Natural asphalt, etc. .. .. .	283	562	910
Nigeria—			
Motor spirit .. .. .	11,271	12,113	7,325
Kerosene .. .. .	10,507	7,105	6,536
Fuel oil .. .. .	769	855	1,090
Lubricating oil .. .. .	1,446	1,166	1,404
Asphalt tar .. .. .	852	1,049	97
Pitch, etc. .. .. .	161	78	108
Nyasaland—			
Motor spirit .. .. .	1,477	1,749	1,627
Kerosene, etc. .. .. .	273	213	218
Fuel oil .. .. .	73	46	55
Lubricating oil .. .. .	114	104	129
Northern Rhodesia—			
Motor spirit .. .. .	4,194	2,902	2,697
Kerosene .. .. .	496	426	392
Lubricating oil .. .. .	517	338	323
Asphalt and bitumen .. .. .	80	11	37
Seychelles—			
Motor spirit .. .. .	66	48	57
Kerosene .. .. .	29	65	89
Fuel oil .. .. .	133	33	84
Lubricating oil .. .. .	18	8	16

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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Sierra Leone—			
Motor spirit .. .. .	1,010	1,277	918
Kerosene .. .. .	991	1,347	248
Fuel oil .. .. .	421	438	550
Lubricating oil .. .. .	138	197	124
Asphalt tar.. .. .	236	142	233
Pitch .. .. .	10	7	4
Somaliland Protectorate—			
Motor spirit .. .. .	166	303	414
Kerosene .. .. .	169	270	238
Southern Rhodesia—			
Motor spirit .. .. .	11,102	10,996	11,569
Kerosene .. .. .	2,072	1,423	1,332
Lubricating oil .. .. .	1,329	1,238	1,464
Other oils .. .. .	667	2,288	4,598
Asphalt and bitumen .. .. .	518	887	2,066
Paraffin wax .. .. .	409	365	—
South West Africa—			
Motor spirit .. .. .	2,871	2,853	3,581
Kerosene .. .. .	1,462	795	1,853
Lubricating oil .. .. .	411	156	216
Other oils .. .. .	1,054	1,247	732
Tanganyika Territory—			
Motor spirit .. .. .	4,666	4,447	3,681
Kerosene .. .. .	3,603	3,622	3,736
Fuel oil .. .. .	3,575	3,772	3,928
Lubricating oil .. .. .	753	684	585
Greases .. .. .	(£1,632)	34	30
Union of South Africa—			
Motor spirit .. .. .	210,822	216,143	238,754
Kerosene .. .. .	43,639	51,940	41,049
Fuel oil .. .. .	61,695	51,016	95,244
Lubricating oil .. .. .	19,159	18,131	21,607
Other oils .. .. .	2,083	6,091	1,282
Paraffin wax .. .. .	10,635	8,793	11,480
Asphalt and bitumen .. .. .	26,712	18,114	20,237
Petroleum jelly .. .. .	203	109	827
Zanzibar—			
Motor spirit .. .. .	965	994	832
Kerosene, etc. .. .. .	1,336	1,646	1,595
Fuel oil .. .. .	769	679	611
Lubricating oil, etc. .. .. .	96	73	91



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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Canada—			
Crude petroleum .. .. .	4,385,469	3,949,456	4,177,373
Motor spirit .. .. .	382,664	332,963	186,264
Kerosene, etc. .. .. .	13,454	6,313	5,955
Lubricating oils .. .. .	55,115	46,412	39,475
Fuel oil (bunkers) .. .. .	149,587	133,371	112,071
Other petroleum oils .. .. .	2,314	918	1,224
Petroleum jelly, etc. .. .. .	(£50,868)	(£50,133)	(£47,601)
Grease .. .. .	1,852	1,406	1,079
Paraffin wax, etc. .. .. .	1,296	723	786
Asphaltum oil, etc. .. .. .	(£17,132)	(£4,910)	(£2,609)
Asphalt .. .. .	32,947	11,190	3,984
Other products .. .. .	12,522	6,852	4,527
Newfoundland (years ended June 30)—			
Crude petroleum .. .. .	660	724	1
Motor spirit .. .. .	8,997	9,866	8,837
Kerosene .. .. .	4,044	2,725	3,535
Lubricating oil .. .. .	1,009	901	577
Fuel oil .. .. .	296	218	621
British Guiana—			
Crude petroleum .. .. .	3,338	1,834	1,229
Motor spirit .. .. .	2,491	2,475	2,378
Kerosene .. .. .	1,893	1,521	1,552
Fuel oil .. .. .	1,740	1,878	2,013
Tar and pitch .. .. .	316	474	478
British West Indies—			
Bahamas—			
Crude petroleum .. .. .	2,200	2,220	1,796
Motor spirit .. .. .	2,470	2,150	1,528
Kerosene .. .. .	1,200	710	829
Lubricating oil .. .. .	110	100	88
Barbados—			
Motor spirit .. .. .	2,780	2,869	3,059
Kerosene .. .. .	1,391	1,123	1,097
Lubricating oil .. .. .	(£5,059)	48	302
Residual oil .. .. .	3,255	3,266	5,896
Bermuda—			
Motor spirit .. .. .	884	1,166	971
Kerosene .. .. .	2,397	1,250	2,177
Fuel oil .. .. .	9,276	8,295	9,505
Lubricating oil .. .. .	—	(£3,433)	(£3,909)

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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
British West Indies—(cont.)			
Grenada—			
Motor spirit .. .. .	407	386	378
Kerosene .. .. .	368	354	347
Fuel oil .. .. .	88	129	120
Lubricating oil .. .. .	25	30	21
Road oil .. .. .	373	115	205
Jamaica—			
Motor spirit .. .. .	16,190	16,697	16,126
Kerosene .. .. .	6,350	4,692	5,235
Gas oil and fuel oil .. .. .	8,672	17,212	2,341
Lubricating oil .. .. .	908	936	929
Other fuel oils .. .. .	85,915	82,663	83,580
Asphalt .. .. .	800	655	1,183
Leeward Islands (d)—			
Motor spirit .. .. .	641	773	852
Kerosene .. .. .	574	599	600
Gas oil .. .. .	22	11	42
Fuel oil .. .. .	289	399	386
Road oil .. .. .	250	42	290
Lubricating oil .. .. .	83	70	131
St. Lucia—			
Motor spirit .. .. .	154	171	172
Kerosene .. .. .	168	190	178
Fuel oil .. .. .	73	82	117
Lubricating oil .. .. .	14	18	23
Road oil .. .. .	52	180	176
St. Vincent—			
Motor spirit .. .. .	286	243	227
Kerosene .. .. .	205	181	179
Fuel oil .. .. .	242	150	126
Lubricating oil .. .. .	17	23	21
Asphalt, tar and pitch .. .. .	7	5	5
Trinidad and Tobago—			
Crude petroleum .. .. .	10,200	9,166	58,216
Motor spirit .. .. .	23	6	(b) 155
Refined petroleum, etc. .. .. .	181	109	—
Lubricating oil .. .. .	717	801	(b) 9
Fuel oil .. .. .	9,955	32,252	—

(b) Excess of re-exports.

(d) Including inter-presidency trade.

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

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE ( <i>Cont.</i> )			
British Honduras—			
Motor spirit .. .. .	800	536	731
Kerosene . . . . .	764	919	682
Fuel oil . . . . .	251	498	345
Lubricating oil .. .. .	110	59	72
Aden (total imports)—			
Motor spirit .. .. .	1,055	1,110	1,012
Kerosene .. .. .	1,444	1,300	852
Fuel oil .. .. .	347,707	541,836	559,905
Lubricating oil .. .. .	388	452	250
British Borneo—			
Brunei—			
Kerosene .. .. .	452	565	451
Sarawak—			
Crude petroleum .. .. .	4,684	161,486	276,892
Motor spirit .. .. .	426	407	433
Kerosene .. .. .	1,904	1,710	2,011
Fuel oil .. .. .	216	202	123
Lubricating oil .. .. .	504	343	296
State of North Borneo—			
Motor spirit .. .. .	307	336	401
Kerosene .. .. .	1,115	998	910
British India (total imports)—			
Motor spirit .. .. .	44,419	22,596	7,802
Kerosene .. .. .	265,444	283,969	210,103
Fuel oil .. .. .	434,645	438,553	437,370
White oil .. .. .	3,432	4,080	1,726
Lubricating oil .. .. .	77,009	57,357	79,334
Other oils .. .. .	2,615	2,163	14,383
Greases .. .. .	1,142	1,360	1,971
Paraffin wax .. .. .	847	187	187
Asphalt .. .. .	29,208	29,237	37,995
British Malaya (total imports)—			
Motor spirit .. .. .	354,982	319,311	304,968
Kerosene .. .. .	103,047	93,398	99,133
Fuel oil .. .. .	507,159	387,026	307,144
Lubricating oil .. .. .	11,879	9,240	11,624
Other oils .. .. .	99	7	51
Paraffin wax .. .. .	871	1,012	968
Asphalt and bitumen .. .. .	21,055	9,391	11,087

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

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE (Cont.)</b>			
Ceylon—			
Crude petroleum (total imports) (c)	212,270	252,134	282,682
Motor spirit .. .. .	29,000	26,855	25,009
Kerosene .. .. .	28,799	22,840	26,594
Lubricating oil .. .. .	2,844	3,345	2,555
Asphalt .. .. .	9,500	10,480	10,346
Cyprus—			
Crude petroleum .. .. .	2,807	2,376	3,209
Motor spirit, etc. .. .. .	4,120	2,814	3,142
Kerosene, etc. .. .. .	3,640	3,030	2,274
Lubricating oil .. .. .	424	308	308
Paraffin wax .. .. .	41	41	59
Hong Kong (total imports)—			
Motor spirit .. .. .	28,119	28,515	39,472
Kerosene .. .. .	91,752	99,722	54,871
Fuel and diesel oil .. .. .	183,398	168,925	200,416
Lubricating oil .. .. .	6,327	5,516	7,456
Other oils .. .. .	119	211	165
Greases .. .. .	200	300	227
Petroleum jelly .. .. .	38	46	38
Paraffin wax .. .. .	12,678	9,850	9,635
Palestine (total imports)—			
Crude petroleum, etc. .. .. .	17,894	15,808	21,071
Motor spirit .. .. .	11,275	14,597	20,106
Kerosene .. .. .	33,156	21,995	33,671
Lubricating oils .. .. .	1,886	2,071	2,400
Paraffin wax .. .. .	85	128	144
Asphalt and bitumen .. .. .	1,959	2,530	5,015
Australia—			
Crude petroleum .. .. .	234,711	179,391	243,764
Motor spirit .. .. .	508,839	583,907	603,499
Kerosene .. .. .	94,747	120,096	120,455
Lubricating oil .. .. .	31,657	39,021	49,623
Residual and solar oils .. .. .	170,536	306,816	285,834
Petroleum jelly .. .. .	492	1,081	544
Greases .. .. .	885	1,437	1,676
Paraffin wax, etc. .. .. .	2,207	2,251	2,172
Mastic asphalt .. .. .	25	22	3
Fiji—			
Crude petroleum .. .. .	1,200	1,450	1,610
Motor spirit .. .. .	2,209	2,053	3,938
Kerosene .. .. .	974	771	1,455
Lubricating oil .. .. .	260	307	302

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

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

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE (Cont.)—</b>			
<b>New Zealand—</b>			
Crude petroleum, fuel oil, etc. ..	141,879	129,810	110,063
Motor spirit .. .. .	202,715	191,514	181,647
Kerosene .. .. .	13,333	20,171	16,537
Lubricating oil .. .. .	6,893	8,581	10,029
Other refined oils .. .. .	1,463	1,370	2,461
Paraffin wax .. .. .	1,226	1,445	1,419
Asphalt .. .. .	18,013	11,253	5,555
<b>Solomon Islands (b)—</b>			
Motor spirit .. .. .	165	220	(a)
Kerosene .. .. .	153	236	(a)
Lubricating oil .. .. .	32	37	(a)
<b>Western Samoa—</b>			
Motor spirit .. .. .	(£3,658)	(£139,054)	(£5,529)
Kerosene .. .. .	(£1,966)	(£73,796)	(£2,092)
Lubricating oil .. .. .	(£752)	(£1,080)	(£652)
Fuel oil .. .. .	(£66)	(£131)	(£49)
<b>FOREIGN COUNTRIES</b>			
<b>Austria—</b>			
Crude petroleum .. .. .	145,142	127,147	194,968
Motor spirit .. .. .	83,147	59,856	48,894
Kerosene .. .. .	21,041	10,882	8,436
Gas oil .. .. .	19,241	23,823	19,231
Lubricating oil .. .. .	8,543	6,222	5,912
Petroleum jelly .. .. .	165	109	112
Paraffin wax .. .. .	2,971	2,546	2,097
Asphalt products .. .. .	1,035	784	558
Petroleum coke .. .. .	1,718	239	1,163
Ozokerite and ceresin .. .. .	186	160	127
Asphalt .. .. .	1,048	558	206
<b>Belgium-Luxemburg E.U.—</b>			
Crude petroleum .. .. .	39,322	24,158	84,919
Motor spirit, etc. .. .. .	243,207	316,061	227,325
Kerosene .. .. .	95,655	84,575	29,199
Lubricating oil .. .. .	168,114	61,964	34,078
Fuel oil, etc. .. .. .	195,243	111,217	63,641
Other heavy oils .. .. .	126	186	300

(a) Information not available.

(b) Years ended March 31st following.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—(cont.)			
Petroleum jelly .. .. .	1,122	1,028	1,486
Paraffin wax .. .. .	7,066	7,275	8,708
Ozokerite and ceresin .. .. .	391	286	352
Asphalt, bitumen, etc. .. .. .	15,865	8,520	15,689
Residual asphalt .. .. .	11,062	5,516	8,611
Bulgaria—			
Motor spirit .. .. .	8,733	8,089	7,158
Kerosene .. .. .	29,060	23,309	24,941
Gas oil .. .. .	23,529	23,822	22,195
Fuel oil .. .. .	5,162	4,188	6,973
Lubricating oil, etc. .. .. .	7,443	4,207	3,582
Paraffin wax, ceresin, etc. . . . .	283	248	317
Tar .. .. .	137	117	68
Petroleum jelly .. .. .	54	27	28
Asphalt and bitumen .. .. .	2,588	291	1,241
Czechoslovakia—			
Crude oils. . . . .	129,399	93,398	99,440
Motor spirit, etc. . . . .	185,778	220,784	161,711
Kerosene .. .. .	29,504	38,158	59,608
Lubricating oils .. .. .	26,736	23,015	21,142
Residual oils .. .. .	10	—	—
Paraffin wax .. .. .	270	306	566
Ozokerite and ceresin .. .. .	149	133	95
Petroleum jelly .. .. .	187	202	196
Asphalt products .. .. .	8,735	3,551	1,671
Denmark—			
Motor spirit .. .. .	238,583	231,305	217,140
Kerosene .. .. .	84,151	83,781	88,112
Fuel oil .. .. .	190,072	225,165	232,687
Crude residual oil .. .. .	752	—	—
Lubricating oil .. .. .	26,893	24,146	25,112
Petroleum jelly .. .. .	109	77	97
Ozokerite, etc. .. .. .	70	53	32
Paraffin wax .. .. .	702	757	976
Asphalt rock .. .. .	12,169	2,882	1,517
Estonia—			
Crude petroleum .. .. .	1,968	733	89
Motor spirit .. .. .	7,080	1,547	2,787
Kerosene .. .. .	18,109	12,914	13,553
Fuel oil .. .. .	806	778	765
Gas oil .. .. .	863	1,353	1,254
Lubricating oil .. .. .	1,935	1,812	2,451

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Estonia—(cont.)			
Petroleum jelly .. .. .	14	36	38
Paraffin wax, etc. .. .. .	141	144	141
Asphalt and tar .. .. .	274	17	83
Finland (total imports)—			
Crude petroleum .. .. .	12,567	10,701	13,432
Motor spirit .. .. .	55,795	28,048	59,201
Kerosene .. .. .	31,797	43,695	35,853
Lubricating oil .. .. .	7,415	8,784	8,957
Petroleum jelly .. .. .	372	307	373
Paraffin wax, etc. .. .. .	456	450	581
Asphalt and tar .. .. .	6,624	6,177	7,130
France—			
Crude petroleum .. .. .	510,369	1,018,476	2,696,404
Motor spirit .. .. .	2,130,797	1,979,372	1,714,792
Kerosene .. .. .	190,359	151,015	91,248
Lubricating oils .. .. .	231,364	194,271	194,796
Fuel oil .. .. .	581,609	658,278	616,319
Gas oil .. .. .	250,179	349,886	374,216
Road oil, etc. .. .. .	71,489	83,545	77,711
Petroleum coke, etc. .. .. .	13,781	8,520	12,672
Paraffin wax .. .. .	6,332	5,140	4,296
Ozokerite and ceresin .. .. .	625	600	503
Petroleum jelly .. .. .	26	23	32
Asphalt and bitumen .. .. .	29,477	18,286	6,223
Germany—			
Crude petroleum .. .. .	237,137	265,845	276,188
Motor spirit .. .. .	1,325,389	1,070,500	988,890
Kerosene .. .. .	128,278	102,308	95,944
Gas oil .. .. .	402,886	386,525	459,967
Fuel oil .. .. .	280,554	194,990	305,929
Lubricating oil .. .. .	358,508	308,213	272,034
Paraffin wax .. .. .	12,661	14,698	18,487
Ozokerite, etc. .. .. .	1,626	1,266	1,470
Asphalt .. .. .	18,439	12,065	5,486
Greece—			
Motor spirit .. .. .	48,978	46,488	45,548
Kerosene .. .. .	20,821	21,150	18,691
Fuel oils .. .. .	84,971	102,065	109,919
Other oils and greases .. .. .	7,169	9,488	5,883
Petroleum jelly .. .. .	64	57	48
Asphalt and bitumen .. .. .	5,102	5,782	3,264

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Crude petroleum .. .. .	151,089	139,138	168,998
Motor spirit .. .. .	3,484	1,400	352
Kerosene .. .. .	1,417	336	—
Gas oil .. .. .	2,051	1,498	522
Lubricating oil .. .. .	4,107	2,119	2,433
Paraffin wax .. .. .	801	1,066	727
Petroleum jelly .. .. .	201	107	122
Ozokerite and ceresin .. .. .	21	18	8
Asphalt, bitumen and tar .. .. .	9,263	2,299	485
Petroleum coke .. .. .	293	152	73
Iceland—			
Motor spirit .. .. .	10,730	14,149	} (a)
Kerosene .. .. .	3,647	2,880	
Lubricating oil .. .. .	727	627	
Fuel oil .. .. .	75	3	
Paraffin wax .. .. .	14	16	
Asphalt .. .. .	33	30	
Italy—			
Crude petroleum .. .. .	99,915	125,157	133,089
Motor spirit .. .. .	361,336	319,809	286,240
Kerosene .. .. .	145,213	143,127	135,096
Lubricating oil .. .. .	71,872	65,429	65,832
Other oils and residues .. .. .	793,966	823,621	1,066,826
Petroleum jelly .. .. .	284	222	315
Paraffin wax .. .. .	24,754	23,506	26,259
Ceresin .. .. .	76	104	121
Bitumen .. .. .	72,032	81,356	96,655
Petroleum coke .. .. .	2,536	4,140	4,165
Latvia—			
Crude petroleum .. .. .	3,719	6,230	1,336
Motor spirit .. .. .	12,413	5,562	5,742
Kerosene .. .. .	21,040	21,981	26,592
Fuel oil .. .. .	820	1,051	670
Lubricating oil .. .. .	1,945	2,823	1,162
Shale oil .. .. .	33	451	1,425
Petroleum jelly .. .. .	15	30	13
Paraffin wax .. .. .	266	241	302
Ozokerite and ceresin .. .. .	12	15	14
Asphalt and bitumen .. .. .	1,519	906	1,047

(a) Information not available.



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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Lithuania—			
Motor spirit .. .. .	6,430	5,660	5,118
Kerosene .. .. .	18,461	18,114	17,160
Gas oil and fuel oil .. .. .	10,846	10,530	11,429
Lubricating oil .. .. .	2,976	2,930	2,508
Paraffin wax, etc. .. .. .	254	329	340
Netherlands—			
Crude petroleum .. .. .	156,880	95,512	72,388
Motor spirit .. .. .	378,917	320,874	368,525
Kerosene .. .. .	209,408	165,848	186,161
Gas oil .. .. .	182,812	189,908	249,370
Fuel oil .. .. .	98,474	96,042	120,490
Lubricating oil .. .. .	52,564	50,051	59,412
Greases .. .. .	1,753	1,663	2,206
Petroleum jelly .. .. .	620	608	895
Paraffin wax .. .. .	6,353	8,270	5,122
Ozokerite and ceresin .. .. .	163	172	199
Asphalt .. .. .	7,653	9,062	11,111
Natural asphalt .. .. .	5,687	2,450	2,418
Norway—			
Crude petroleum .. .. .	37,099	27,018	20,542
Motor spirit .. .. .	86,189	115,534	96,702
Kerosene .. .. .	38,686	35,173	33,364
Fuel oil .. .. .	136,094	188,687	275,043
Residual oils, etc. .. .. .	10,500	9,708	12,928
Petroleum jelly, etc. .. .. .	479	495	569
Asphalt, bitumen, etc. .. .. .	6,641	8,193	9,111
Poland—			
Motor spirit .. .. .	7	12	23
Kerosene .. .. .	4	—	—
Fuel oil and gas oil .. .. .	1,278	250	64
Lubricating oils .. .. .	2,354	1,895	1,419
Greases .. .. .	107	75	17
Petroleum jelly .. .. .	201	156	253
Paraffin wax, etc. .. .. .	294	88	58
Asphalt rock .. .. .	243	262	82
Mastic asphalt .. .. .	622	665	2,654
Other asphalt and tar .. .. .	2,670	1,672	1,214
Portugal—			
Motor spirit .. .. .	46,633	45,435	50,083
Kerosene .. .. .	40,272	40,087	47,098
Petroleum jelly .. .. .	74	78	76
Paraffin wax .. .. .	1,004	826	1,109

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Roumania—			
Motor spirit .. .. .	57	—	—
Kerosene .. .. .	29	1	—
Fuel oil .. .. .	39	4	—
Residual oils .. .. .	2,477	1,243	1,917
Petroleum jelly .. .. .	91	61	66
Paraffin wax .. .. .	5	5	11
Ozokerite and ceresin .. .. .	82	86	86
Greases .. .. .	77	38	69
Asphalt and bitumen .. .. .	115	116	103
Tar and pitch .. .. .	3,718	1,260	781
Spain—			
Crude petroleum .. .. .	20,586	22,093	13,591
Motor spirit .. .. .	386,126	379,133	353,839
Kerosene .. .. .	18,913	20,979	15,507
Gas oil .. .. .	94,102	76,139	73,597
Fuel oil .. .. .	161,756	184,767	155,727
Lubricating oils .. .. .	32,331	32,176	24,773
Residual pitch .. .. .	51,890	46,141	64,709
Petroleum jelly and its oils .. .. .	1,409	1,870	1,403
Paraffin wax .. .. .	7,907	4,653	7,663
Asphalt and bitumen .. .. .	500	473	1,100
Sweden—			
Crude .. .. .	30,024	32,687	55,804
Motor spirit .. .. .	311,007	327,557	323,598
Kerosene .. .. .	75,038	76,815	91,308
Fuel oil and gas oil .. .. .	167,232	220,197	247,779
Lubricating oil .. .. .	44,862	43,359	41,289
Petroleum jelly .. .. .	244	267	338
Other refined oils .. .. .	2,808	3,714	2,568
Paraffin wax .. .. .	3,454	2,729	3,127
Ozokerite and ceresin .. .. .	146	133	184
Asphalt .. .. .	9,443	5,988	3,351
Pitch .. .. .	18,020	11,704	12,814
Switzerland—			
Motor spirit .. .. .	179,021	201,029	192,340
Kerosene .. .. .	24,097	23,662	23,682
Petroleum distillates, etc. .. .. .	1,705	1,666	1,742
Fuel oil .. .. .	95,950	129,603	149,861
Lubricating oil and grease .. .. .	20,942	21,399	19,557
Petroleum jelly .. .. .	327	320	353
Paraffin wax and ceresin .. .. .	1,629	1,572	2,268
Asphalt and bitumen .. .. .	1,662	1,392	1,124

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
U.S.S.R. (Russia)—			
Crude petroleum .. .. .	—	—	757
Kerosene .. .. .	—	—	140
Petroleum jelly .. .. .	3	—	2
Ozokerite and ceresin .. .. .	25	2	4
Asphalt and tar .. .. .	387	406	84
Yugoslavia—			
Crude petroleum .. .. .	53,331	71,818	95,805
Motor spirit .. .. .	3,856	13,086	4,541
Kerosene .. .. .	13,738	26,823	14,012
Gas oil, etc. .. .. .	2,836	13,429	2,304
Lubricating oil, etc. .. .. .	4,521	5,145	3,416
Paraffin wax .. .. .	1,974	1,714	1,964
Ozokerite and ceresin .. .. .	74	59	78
Asphalt and bitumen .. .. .	12,685	7,053	3,141
Abyssinia—			
Motor spirit .. .. .	699	829	721
Kerosene .. .. .	1,833	1,833	1,306
Algeria—			
Motor spirit .. .. .	116,802	124,994	130,439
Kerosene .. .. .	46,769	46,254	47,998
Gas oil .. .. .	12,971	17,743	100,727
Fuel oil .. .. .	8,460	8,376	
Lubricating oil .. .. .	13,569	13,143	299
Road oil, etc. .. .. .	27,289	54,901	
Paraffin wax, etc. .. .. .	222	171	(a)
Petroleum jelly .. .. .	34	25	
Ozokerite and ceresin .. .. .	14	5	
Asphalt and bitumen .. .. .	1,604	1,000	
Angola—			
Motor spirit .. .. .	4,243	3,161	—
Kerosene .. .. .	766	1,047	604
Fuel oil .. .. .	1,846	1,596	308
Lubricating oil .. .. .	339	482	411
Grease .. .. .	36	25	57
Belgian Congo—			
Motor spirit .. .. .	11,905	8,617	10,790
Kerosene .. .. .	1,401	1,382	840
Fuel oil, etc. .. .. .	18,340	5,442	2,743
Lubricating oils and greases .. .. .	2,858	1,546	2,002

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Cameroon (French)—			
Motor spirit .. .. .	2,081	2,535	2,776
Kerosene .. .. .	808	801	871
Fuel oil .. .. .	(a)	13	242
Lubricating oils .. .. .	580	258	332
Canary Islands (d)—			
Crude petroleum .. .. .	99,089	157,853	(a)
Motor spirit .. .. .	15,903	15,726	
Kerosene .. .. .	8,394	6,330	
Light oils, unrefined .. .. .	7,721	—	
Gas oil .. .. .	120,992	158,386	
Fuel oil .. .. .	131,069	153,644	
Lubricating oil .. .. .	23,395	9,801	
Residual pitch .. .. .	132	788	
Asphalt and bitumen .. .. .	1,776	77	
Cape Verde Islands—			
Motor spirit .. .. .	176	167	(a)
Kerosene .. .. .	528	403	
Fuel oil (d) .. .. .	137,394	178,337	
Egypt—			
Crude petroleum .. .. .	1	99,739	76,475
Motor spirit .. .. .	58,068	37,771	19,025
Kerosene .. .. .	310,404	263,443	263,855
Fuel oil, etc. .. .. .	144,555	131,121	130,585
Lubricating oil .. .. .	15,397	14,509	18,214
Petroleum jelly .. .. .	116	119	186
Paraffin wax .. .. .	265	261	434
Ozokerite and ceresin .. .. .	6	6	8
Asphalt and bitumen .. .. .	6,345	4,853	5,564
French Equatorial Africa—			
Motor spirit .. .. .	7,059	5,863	5,187
Kerosene .. .. .		930	954
Heavy oils .. .. .		1,745	869
Asphalt and bitumen .. .. .		(a)	94
French Somaliland—			
Motor spirit .. .. .	7,995	206	415
Kerosene .. .. .		90	164
Lubricating oil .. .. .		346	367
French Togoland—			
Motor spirit .. .. .	933	673	671
Kerosene .. .. .	1,041	973	807
Heavy oils .. .. .	270	200	103
Fuel oil .. .. .	238	474	311

(a) Information not available.

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

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French West Africa—			
Dahomey—			
Motor spirit .. .. .	1,205	1,028	857
Kerosene.. .. .	1,844	1,022	593
Lubricating oils .. .. .	168	201	(a)
Fuel oils .. .. .	48	84	87
French Guinea—			
Motor spirit .. .. .	721	1,014	1,045
Kerosene.. .. .	298	392	467
Lubricating oils .. .. .	226	190	(a)
Fuel oil .. .. .	—	22	30
French Sudan—			
Motor spirit .. .. .	613	217	137
Kerosene.. .. .	122	46	32
Lubricating oils .. .. .	128	80	(a)
Ivory Coast—			
Motor spirit .. .. .	3,470	3,580	2,900
Kerosene.. .. .	1,116	763	939
Lubricating oils .. .. .	862	523	(a)
Fuel oil .. .. .	38	107	198
Mauritania—			
Motor spirit .. .. .	63	51	71
Lubricating oil, etc. .. .. .	5	(a)	4
Senegal—			
Motor spirit .. .. .	8,476	7,030	6,890
Kerosene.. .. .	1,003	1,108	1,092
Lubricating oils .. .. .	1,561	1,268	(a)
Fuel oil (b) .. .. .	130,772	304,415	264,193
Bitumen .. .. .	781	(a)	(a)
Madagascar (total imports)—			
Motor spirit .. .. .	4,550	4,591	4,762
Kerosene .. .. .	2,683	2,528	2,502
Heavy oils .. .. .	3,557	3,769	4,033
Petroleum jelly .. .. .	8	9	5
Morocco—			
Motor spirit .. .. .	82,612	109,081	82,717
Kerosene .. .. .	22,853	16,606	11,593
Fuel oil .. .. .	11,723	13,417	11,898
Lubricating oil and grease .. .. .	8,000	6,879	7,832
Paraffin wax .. .. .	864	1,742	2,295

(a) Information not available.

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

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Mozambique—			
Motor spirit .. .. .	6,547	6,516	} (a)
Kerosene .. .. .	2,395	2,254	
Fuel oil .. .. .	935	1,254	
Lubricating oil .. .. .	1,663	1,362	
Asphalt and bitumen .. .. .	224	363	
Portuguese Guinea—			
Motor spirit .. .. .	390	260	} (a)
Kerosene .. .. .	} 324	91	
Fuel oil .. .. .		69	
Lubricating oil .. .. .		36	
Réunion—			
Motor spirit .. .. .	} 1,931	2,247	2,678
Kerosene .. .. .		788	882
Heavy oils and greases .. .. .		788	291
Spanish Africa—			
Ceuta—			
Motor spirit .. .. .	2,566	2,413	} (a)
Gas oil .. .. .	17	—	
Fuel oil (b) .. .. .	40,355	35,984	
Lubricating oil .. .. .	525	278	
Residual pitch .. .. .	37	10	
Melilla—			
Motor spirit .. .. .	6,077	5,139	} (a)
Kerosene .. .. .	779	672	
Gas oil .. .. .	4,114	2,544	
Lubricating oil .. .. .	720	1,016	
Residual pitch .. .. .	368	67	
Tunis—			
Motor spirit .. .. .	37,312	42,373	43,742
Kerosene .. .. .	27,689	30,877	25,483
Fuel oil and gas oil .. .. .	13,751	15,454	18,113
Road oil .. .. .	7,457	6,970	8,882
Lubricating oils .. .. .	5,417	4,803	4,597
Petroleum jelly .. .. .	8	8	12
Paraffin wax .. .. .	582	24	41
Asphalt and bitumen .. .. .	706	2,414	820
Costa Rica (c)—			
Crude petroleum .. .. .	18,346	16,082	19,397
Motor spirit .. .. .	4,723	4,139	4,109
Grease .. .. .	28		
Petroleum jelly .. .. .	9	} (a)	} (a)
Paraffin wax .. .. .	1,218		
Asphalt .. .. .	573		

(a) Information not available.

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

(c) Total imports.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Cuba (total imports)—			
Crude petroleum .. .. .	87,663	71,383	} (a)
Motor spirit .. .. .	77,163	49,966	
Kerosene .. .. .	1,007	1,279	
Fuel oil .. .. .	397,040	381,436	
Gas oil .. .. .	5,207	4,080	
Lubricating oil .. .. .	8,400	4,715	
Petroleum jelly .. .. .	141	233	
Greases .. .. .	250	138	
Paraffin wax .. .. .	1,020	1,007	
Asphalt rock .. .. .	47	80	
Other asphalt .. .. .	5,986	420	
Dominican Republic (total imports)—			
Motor spirit .. .. .	7,839	7,839	7,525
Kerosene .. .. .	3,900	3,281	3,590
Fuel oil .. .. .	29,601	14,654	34,024
Lubricating oil .. .. .	1,267	1,120	870
French West Indies—			
Guadeloupe—			
Motor spirit .. .. .	2,584	2,672	} (a)
Kerosene .. .. .	(a)	1,538	
Fuel oil .. .. .	870	(a)	
Martinique—			
Motor spirit .. .. .	126	1,003	2,552
Kerosene .. .. .	—	—	1,333
Lubricating oil .. .. .	377	373	146
Fuel oil .. .. .	445	373	303
Mexico—			
Crude petroleum .. .. .	89,192	66,678	49,935
Motor spirit .. .. .	64,574	57,890	5,448
Kerosene .. .. .	8,337	7,899	3,066
Fuel oil and gas oil .. .. .	135,804	116,181	138,658
Paraffin wax .. .. .	4,238	10,157	1,543
Lubricating oil, etc. .. .. .	8,467	5,656	5,820
Petroleum jelly .. .. .	146	305	152
Natural gas .. .. .	(b)50	—	—
Netherlands West Indies—			
Crude petroleum .. .. .	13,118,764	12,834,480	} (a)
Motor spirit .. .. .	1,671	2,910	
Kerosene .. .. .	671	556	
Fuel oil and gas oil .. .. .	418,429	675,931	
Lubricating oil .. .. .	527	671	

(a) Information not available.

(b) In addition 2,741,710,000 cu. ft. were exported in 1931.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Nicaragua (total imports)—			
Crude petroleum .. .. .	18,837	12,363	13,699
Motor spirit .. .. .	2,625	1,938	2,664
Kerosene .. .. .	2,301	1,869	2,541
Lubricating oil .. .. .	340	292	364
Panama—			
Motor spirit .. .. .	1,698	} (a)	(a)
Kerosene .. .. .	9,853		
Fuel oil .. .. .	245		
Lubricating oil .. .. .	807		
Mineral grease .. .. .	39		
Asphalt .. .. .	169		
Tar and pitch .. .. .	30		
Paraffin wax .. .. .	42		
Petroleum jelly .. .. .	8		
St. Pierre and Miquelon—			
Gas oil and fuel oil .. .. .	200	3,000	(a)
Salvador—			
Crude petroleum .. .. .	15,456	11,388	} (a)
Motor spirit .. .. .	5,936	3,922	
Kerosene .. .. .	2,843	273	
United States—			
Crude petroleum .. .. .	6,843,458	6,040,485	4,314,108
Motor spirit, etc. (b) .. .. .	1,563,106	963,273	2,877
Kerosene (b) .. .. .	1,461	9,960	1,114
Topped oils, including fuel oil (b)	3,499,722	3,041,399	2,031,892
Tops and other unfinished distil-			
lates (b) .. .. .	5,598	1,670	2,687
Lubricating oil (b) .. .. .	4,424	2,641	601
Paraffin wax, etc. .. .. .	16,891	14,846	16,453
Mineral wax .. .. .	2,169	578	2,112
Asphalt and bitumen .. .. .	65,779	18,280	19,380
Argentina—			
Crude petroleum .. .. .	353,076	220,798	153,121
Motor spirit .. .. .	196,184	52,800	42,006
Kerosene .. .. .	42,792	11,098	8,011
Fuel oil and gas oil .. .. .	766,981	719,489	772,529
Lubricating oil .. .. .	27,728	20,376	17,098
Petroleum jelly .. .. .	284	159	257
Grease .. .. .	1,663	769	623
Paraffin wax .. .. .	6,826	5,448	4,905

(a) Information not available.

(b) Total imports. Re-exports of refined petroleum were 1,000 and 2,800 long tons during 1931 and 1932 respectively.



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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Argentina—(cont.)			
Asphalt rock .. .. .	14,553	7,408	15,857
Trinidad asphalt .. .. .	17,220	4,898	9,504
Asphalt for roofing .. .. .	1,335	963	1,151
Other asphalt and bitumen .. .. .	79	114	144
Pitch .. .. .	105	27	16
Bolivia—			
Motor spirit .. .. .	4,910	(a)	(a)
Kerosene, etc. .. .. .	1,124	(a)	(a)
Fuel oil .. .. .	19,139	(a)	(a)
Lubricating oil .. .. .	1,003	(a)	(a)
Paraffin wax, etc. .. .. .	1,549	(a)	(a)
Asphalt and bitumen .. .. .	531	(a)	(a)
Brazil (total imports)—			
Motor spirit .. .. .	210,917	141,440	232,147
Kerosene .. .. .	96,981	46,326	79,894
Fuel oil .. .. .	385,986	396,467	435,241
Lubricating oil .. .. .	22,540	20,973	
Petroleum jelly .. .. .	273	158	
Greases .. .. .	519	382	(a)
Paraffin wax .. .. .	575	907	
Asphalt .. .. .	2,406	1,581	
Chile—			
Crude petroleum .. .. .	198,515	105,925	
Motor spirit .. .. .	92,959	44,580	
Kerosene .. .. .	7,828	8,272	
Fuel oil .. .. .	246,702	79,180	
Lubricating oil .. .. .	6,792	4,437	(a)
Petroleum jelly .. .. .	45	44	
Greases .. .. .	503	305	
Ozokerite .. .. .	4	7	
Crude asphalt .. .. .	395	26	
Paraffin wax .. .. .	8,930	3,303	7,673
Tar and pitch .. .. .	4,139	252	7
Colombia—			
Crude petroleum .. .. .	25	29	
Refined petroleum .. .. .	383	56	
Motor spirit .. .. .	9,738	10,377	
Fuel oil and gas oil .. .. .	10,142	10,518	(a)
Lubricating oil .. .. .	1,873	1,660	
Petroleum jelly .. .. .	54	27	
Paraffin wax .. .. .	5,503	5,058	
Asphalt, etc .. .. .	593	45	

(a) Information not available.

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

Importing Country and Description	1931	1932	1933	
FOREIGN COUNTRIES (Cont.)				
Dutch Guiana—				
Motor spirit .. .. .	432	410	469	
Kerosene .. .. .	1,102	1,114	1,028	
Gas oil .. .. .	187	400	518	
Fuel oil .. .. .	3,027	1,989	2,040	
Lubricating oil .. .. .	155	119	133	
Ecuador—				
Crude petroleum .. .. .	18,359	3,409	} (a)	
Motor spirit .. .. .	658	119		
Kerosene .. .. .	327	—		
Lubricating oils and greases .. .. .	711	624		
Paraffin wax, etc. .. .. .	1,155	1,190		
Petroleum jelly .. .. .	13	14		
Asphalt and bitumen .. .. .	264	176	} (a)	
French Guiana—				
Motor spirit .. .. .	497	607		
Fuel oil .. .. .	32	—	} (a)	
Lubricating oil .. .. .	—	70		
Peru—				
Crude petroleum .. .. .	108	54	3	
Motor spirit, etc. .. .. .	550	346	318	
Lubricating oil .. .. .	979	810	1,144	
Petroleum jelly .. .. .	48	49	54	
Paraffin wax .. .. .	3,533	2,372	3,613	
Asphalt and bitumen .. .. .	307	193	379	
Greases .. .. .	79	48	101	
Uruguay—				
Motor spirit, etc. .. .. .	89,303	67,135	65,789	
Kerosene .. .. .	37,165	23,067	31,281	
Gas oil .. .. .	6,691	6,586	8,019	
Fuel oil .. .. .	245,412	201,372	172,543	
Lubricating oil and greases .. .. .	4,830	3,640	4,372	
Paraffin wax .. .. .	169	181	333	
Petroleum jelly .. .. .	40	17	21	
Venezuela—				
Motor spirit .. .. .	2,860	1,425	} (a)	
Kerosene .. .. .	316	87		
Fuel oil .. .. .	4,110	1,421		
Asphalt and bitumen .. .. .	388	354		
Paraffin wax .. .. .	1,762	1,708		
Tar and pitch .. .. .	522	511		
China—				
Motor spirit .. .. .	81,297	65,887	85,469	
Kerosene .. .. .	518,668	422,178	567,458	
Fuel oil .. .. .	227,336	234,660	336,064	

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
China—(cont.)			
Lubricating oil .. .. .	34,074	27,351	37,177
Paraffin wax .. .. .	35,710	23,441	25,685
Asphalt .. .. .	13,328	9,059	9,261
Greases .. .. .	1,338	868	945
Formosa—			
Crude and heavy oils .. .. .	18,418	17,997	31,000
Motor spirit .. .. .	4,094	4,081	3,683
Kerosene .. .. .	10,743	10,057	8,602
Other light oils .. .. .	3,400	5,900	10,815
Lubricating oil .. .. .	3,554	3,580	(a)
Paraffin wax .. .. .	341	87	(a)
Grease .. .. .	193	252	(a)
French Indo-China—			
Motor spirit .. .. .	28,903	30,747	28,826
Kerosene .. .. .	44,461	43,988	41,334
Fuel oil .. .. .	10,263	14,843	9,869
Heavy oils, etc. .. .. .	9,667	6,790	5,814
Petroleum jelly .. .. .	6	15	29
Ozokerite .. .. .	7	5	12
Paraffin wax, etc. .. .. .	1,181	1,253	1,212
Asphalt and bitumen .. .. .	8,474	10,207	7,009
Iraq (b)—			
Motor spirit .. .. .	2,067	3,092	3,590
Kerosene .. .. .	4,867	4,399	4,734
Fuel oil .. .. .	34,493	45,041	49,104
Lubricating oil .. .. .	2,820	3,064	4,380
Japan (c) (d)—			
Crude oils .. .. .	1,542,885	1,934,235	2,085,064
Other mineral oils—			
Specific gravity not exceeding 0·730 (mostly motor spirit) ..	6,300	3,900	200
Specific gravity not exceeding 0·8017 (mostly motor spirit)	282,300	313,900	333,800
Specific gravity not exceeding 0·8762 (mostly kerosene) ..	50,900	56,100	46,200
Specific gravity not exceeding 0·9218 (mostly lubricating oils)	16,900	16,100	13,500
Other oils (mostly lubricating oils)	16,990	15,682	8,080
Petroleum jelly .. .. .	242	272	387
Paraffin wax .. .. .	22,395	23,063	19,538
Pitch and asphalt .. .. .	10,795	8,764	2,990

(a) Information not available.

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

(c) Total imports.

(d) Excluding fuel oil imported on government account.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Korea (c)—			
Crude and heavy oils .. ..	33,566	41,934	48,273
Motor spirit .. .. .	22,700	26,188	30,860
Kerosene .. .. .	33,243	48,943	32,824
Lubricating oil .. .. .	10,262	12,102	13,447
Paraffin wax .. .. .	178	127	67
"Manchoukuo"—			
Motor spirit .. .. .	(a)	10,711	33,589
Kerosene .. .. .	(a)	19,139	34,836
Fuel oil .. .. .	(a)	2,960	18,139
Lubricating oil .. .. .	(a)	9,276	13,993
Paraffin wax .. .. .	(a)	848	6,516
Asphalt and bitumen .. .. .	(a)	179	2,348
Netherlands East Indies—			
Crude petroleum .. .. .	2	812	—
Motor spirit .. .. .	3,828	8,535	42,716
Kerosene .. .. .	50,702	17,414	14,520
Fuel and motor oils .. .. .	9,764	24,117	52,423
Lubricating oil .. .. .	9,982	7,711	8,570
Petroleum jelly .. .. .	67	27	116
Greases .. .. .	517	363	349
Paraffin wax .. .. .	583	333	366
Ceresin .. .. .	30	22	18
Pitch .. .. .	2	—	6
Asphalt .. .. .	26,060	19,031	19,980
Persia (c) (e)—			
Crude petroleum .. .. .	286	121	173
Motor spirit .. .. .	13,960	18,139	11,194
Kerosene .. .. .	34,322	43,417	37,320
Fuel oil .. .. .	2,656	3,023	3,623
Lubricating oil .. .. .	2,885	2,936	1,505
Greases .. .. .	699	389	1,719
Paraffin wax .. .. .	—	14	43
Philippine Islands—			
Motor spirit .. .. .	104,598	86,951	} (a)
Kerosene .. .. .	75,659	45,091	
Fuel oil .. .. .	270,789	265,949	
Other light oils .. .. .	130	80	

(a) Information not available.

(c) Total imports.

(e) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Philippine Islands—(cont.)			
Lubricating oil .. .. .	10,708	14,887	} (a)
Residual oils .. .. .	2,170	517	
Mineral wax .. .. .	2,076	2,037	
Asphalt .. .. .	6,897	8,081	
Portuguese India—			
Motor spirit .. .. .	850	(a)	(a)
Kerosene .. .. .	3,121	(a)	(a)
Siam (total imports)—			
Motor spirit .. .. .	13,770	12,484	11,584
Kerosene .. .. .	30,754	27,187	27,806
Fuel oil .. .. .	36,422	30,980	31,017
Lubricating oil .. .. .	4,453	4,701	4,317
Asphalt .. .. .	1,221	377	44
Syria and Lebanon—			
Motor spirit .. .. .	28,949	31,734	29,186
Kerosene .. .. .	34,828	35,287	30,119
Fuel oil .. .. .	5,645	9,686	9,571
Lubricating oils .. .. .	2,952	2,255	2,784
Paraffin wax .. .. .	85	66	91
Petroleum jelly .. .. .	16	30	32
Asphalt and bitumen .. .. .	8,792	3,741	3,023
Turkey—			
Crude petroleum .. .. .	414	5,597	} (a)
Motor spirit .. .. .	24,273	21,712	
Kerosene .. .. .	34,974	32,199	
Fuel oil .. .. .	21,841	23,762	
Lubricating oil .. .. .	4,417	4,761	
Paraffin wax and petroleum jelly .. .. .	433	452	
Ozokerite .. .. .	34	32	
Other heavy oil .. .. .	2,035	11	
New Caledonia—			
Motor spirit .. .. .	} 1,569	} 1,248	} 1,205
Kerosene .. .. .			
Lubricating oil .. .. .			

(a) Information not available.

## PHOSPHATES

PRODUCTION OF PHOSPHATE-ROCK  
(Long tons)

Producing Country	1931	1932	1933	Estimated Tribasic Phosphate of Lime Content or equivalent		
				1931	1932	1933
<b>BRITISH EMPIRE</b>						
Seychelles (exports) ..	4,655	13,989	12,113	(a)	(a)	(a)
Union of South Africa	1,876	1,164	1,163	1,108	693	686
Canada .. ..	—	1,175	1,977	—	977	1,641
India .. ..	109	121	37	88	99	30
Christmas Island ..	65,849	84,197	91,280	56,700	72,600	78,700
Australia .. ..	609	869	96	333	475	52
Nauru Island .. ..	245,165	418,180	363,680	208,700	355,900	309,500
Ocean Island .. ..	130,450	196,875	185,575	115,600	174,400	164,400
<b>Total .. ..</b>	<b>449,000</b>	<b>717,000</b>	<b>656,000</b>			
<b>FOREIGN COUNTRIES</b>						
Belgium (b) .. ..	48,325	25,402	(a)	14,500	7,600	(a)
Estonia .. ..	4,508	1,115	8,809	1,970	488	3,849
France .. ..	106,275	81,400	(a)	38,000	29,000	(a)
Poland .. ..	5,000	(a)	6,250	2,150	(a)	2,730
Spain .. ..	7,612	9,822	(a)	4,900	6,300	(a)
U.S.S.R. (Russia) (estimated) .. ..	400,000	600,000	700,000	290,000	440,000	510,000
Algeria .. ..	555,976	560,288	578,500	372,000	374,000	387,000
Egypt .. ..	252,952	344,256	433,673	171,000	233,000	293,000
Madagascar .. ..	8,000	7,012	(a)	6,100	5,268	(a)
Morocco (French) ..	925,769	988,162	1,048,822	710,000	758,000	804,000
Tunis .. ..	2,114,000	1,651,000	1,780,000	1,300,000	1,000,000	1,070,000
Netherlands West Indies (exports) ..	79,650	61,421	82,895	68,400	54,400	71,100
United States .. ..	2,577,535	1,739,197	2,309,269	1,840,000	1,245,000	1,665,000
French Indo-China ..	12,668	400	(a)	10,240	300	(a)
China .. ..	8,000	8,000	(a)	6,500	6,500	(a)
Japan .. ..	20,814	18,461	40,000	17,050	15,100	32,800
Netherlands East Indies .. ..	108	2,681	7,803	70	1,800	4,400
Philippine Islands ..	256	(a)	(a)	202	(a)	(a)
Angaur Island (exports) .. ..	44,683	54,347	73,250	35,880	43,640	58,815
Makatea .. ..	137,000	118,745	77,797	114,800	99,500	65,400
New Caledonia .. ..	—	1,000	—	—	760	—
<b>Total .. ..</b>	<b>7,300,000</b>	<b>6,300,000</b>	<b>7,300,000</b>			
<b>WORLD'S TOTAL</b>	<b>7,800,000</b>	<b>7,000,000</b>	<b>8,000,000</b>			

(a) Information not available.

(b) In addition Phosphatic Chalk was produced as follows:—

1931	..	..	..	..	..	36,425 long tons.
1932	..	..	..	..	..	51,740 " "

## PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom (c) .. .. .	460,812	523,726	486,369
Union of South Africa .. .. .	68,327	63,000	82,378
Canada (e) .. .. .	56,700	45,921	30,929
Australia (e) .. .. .	660,131	(d) 560,732	747,000
New Zealand (b) .. .. .	216,049	296,949	310,986
FOREIGN COUNTRIES			
Austria .. .. .	30,721	31,052	41,137
Belgium .. .. .	251,000	252,000	285,000
Czechoslovakia .. .. .	124,157	117,842	100,893
Denmark .. .. .	233,400	171,700	259,000
Finland .. .. .	14,892	12,351	12,320
France .. .. .	1,479,833	1,327,429	1,358,635
Germany .. .. .	501,000	556,000	674,000
Greece .. .. .	35,656	32,667	28,016
Italy .. .. .	789,392	656,079	987,454
Latvia .. .. .	33,920	40,170	55,417
Lithuania .. .. .	42,700	39,000	44,000
Netherlands .. .. .	486,356	493,159	467,104
Norway .. .. .	9,645	20,500	20,699
Poland .. .. .	97,028	24,500	51,254
Portugal .. .. .	177,000	200,000	177,000
Roumania .. .. .	—	304	—
Spain .. .. .	873,828	978,483	964,050
Sweden .. .. .	215,382	190,216	215,377
Switzerland .. .. .	19,237	18,446	20,682
U.S.S.R. (Russia) .. .. .	466,797	(f) 900,000	(f) 710,000
Yugoslavia .. .. .	31,750	8,171	—
Algeria .. .. .	68,600	63,561	} 107,806
Tunis .. .. .	42,567	39,801	
Morocco .. .. .	25,000	24,162	
United States .. .. .	2,450,471	1,578,268	2,406,158
Japan .. .. .	848,781	1,021,340	1,110,163

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

(c) Including Irish Free State.

(d) Production of Victoria, South Australia and Western Australia only.

(e) Years ended June 30.

(f) Estimated.

## PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom (b) .. ..	165,000	160,000	191,000
FOREIGN COUNTRIES			
Belgium (estimated).. ..	584,000	568,000	(a)
Czechoslovakia .. ..	110,426	65,241	70,256
France—			
Saar .. ..	253,467	233,956	262,606
Other districts .. ..	1,273,406	818,741	(a)
Germany .. ..	885,485	524,614	800,000
Luxemburg .. ..	423,881	394,683	386,155
Sweden .. ..	10,010	7,608	(a)

(a) Information not available.

(b) Estimated amount ground and used as fertilizers.



## EXPORTS OF PHOSPHATES, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom ( <i>b</i> )—			
Superphosphates .. .. .	10,500	13,037	20,659
Basic slag .. .. .	13,455	17,595	30,127
Seychelles—			
Phosphatic guano .. .. .	4,655	13,989	12,113
Christmas Island—			
Phosphate-rock .. .. .	65,849	84,197	91,280
Australia (including re-exports)—			
Superphosphates .. .. .	5	4	15
New Zealand—			
Superphosphates .. .. .	864	968	1,228
Nauru and Ocean Islands—			
Phosphate-rock .. .. .	375,610	615,060	549,255
FOREIGN COUNTRIES			
Austria—			
Basic slag .. .. .	8	4	—
Belgium-Luxemburg E.U.—			
Phosphate-rock .. .. .	76,803	49,150	49,466
Superphosphates .. .. .	230,556	214,546	166,511
Basic slag .. .. .	990,167	927,532	860,817
Czechoslovakia—			
Phosphate-rock .. .. .	—	—	778
Superphosphates .. .. .	315	142	156
Basic slag .. .. .	13,945	1,849	486
Denmark—			
Superphosphates .. .. .	9,005	5,008	11,302
Estonia—			
Superphosphates .. .. .	4	1	62
France—			
Phosphate-rock .. .. .	1,580	551	12
Superphosphates .. .. .	83,399	35,743	35,489
Basic slag .. .. .	995,569	536,817	660,025
Germany—			
Phosphate-rock, etc. .. .. .	3,195	1,665	9,191
Superphosphates .. .. .	50,530	29,142	15,172
Basic slag .. .. .	170,348	49,612	2,044
Greece—			
Superphosphates .. .. .	20,078	18,218	19,195

(*b*) Including exports to Irish Free State. See also note (*c*) p. 307.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Superphosphates .. .. .	12,803	6,883	1
Italy—			
Phosphate-rock .. .. .	413	—	—
Superphosphates, including bone superphosphates .. .. .	15,987	2,614	2,823
Basic slag .. .. .	4	—	2
Latvia—			
Superphosphates .. .. .	1,218	706	24
Basic slag .. .. .	3	9	3
Netherlands—			
Phosphate-rock .. .. .	244	—	34
Superphosphates .. .. .	393,147	403,422	311,881
Basic slag .. .. .	849	312	2,115
Norway—			
Superphosphates .. .. .	—	107	694
Poland—			
Superphosphates .. .. .	22,313	15,971	13,912
Basic slag .. .. .	153	—	—
Portugal—			
Superphosphates .. .. .	10	16	30
Roumania—			
Superphosphates .. .. .	100	15	—
Spain—			
Superphosphates .. .. .	4,016	2,301	3,531
Basic slag .. .. .	4,345	—	6
Sweden—			
Superphosphates .. .. .	16,239	30,971	29,287
Basic slag .. .. .	984	—	—
Switzerland—			
Basic slag .. .. .	29	11	8
U.S.S.R. (Russia)—			
Apatite .. .. .	(a)	44,412	279,467
Yugoslavia—			
Phosphate-rock .. .. .	—	—	2,523
Superphosphates .. .. .	2,334	1	4
Algeria—			
Phosphate-rock .. .. .	451,827	557,439	586,227
Superphosphates .. .. .	12,001	25,756	11,478
Basic slag .. .. .	189	1,997	(a)
Double superphosphates, etc. ..	111	45	(a)

(a) Information not available.

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Egypt—			
Phosphate-rock .. .. .	190,645	410,492	475,604
Madagascar—			
Phosphate-rock .. .. .	8,000	7,000	12,549
Morocco—			
Phosphate-rock .. .. .	950,196	1,004,335	1,054,643
Superphosphates .. .. .	9,694	7,605	6,411
Tunis (including re-exports)—			
Phosphate-rock .. .. .	1,756,284	1,597,459	1,723,310
Superphosphates .. .. .	5	—	—
Netherlands West Indies—			
Phosphate-rock .. .. .	79,650	61,421	82,895
United States—			
Phosphate-rock .. .. .	951,305	613,035	829,059
Superphosphates .. .. .	81,587	23,883	35,371
Angaur Island—			
Phosphate-rock .. .. .	44,683	54,347	73,250
Makatea—			
Phosphate-rock .. .. .	109,672	118,745	77,797
New Caledonia—			
Phosphate-rock .. .. .	2,500	—	6,592

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

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Phosphate-rock .. .. .	257,222	352,702	341,986
Superphosphates .. .. .	108,791	57,613	32,901
Basic slag .. .. .	38,662	4,951	1,461
Irish Free State—			
Phosphate-rock .. .. .	63,625	60,016	48,848
Superphosphates .. .. .	31,863	37,072	10,451
Basic slag .. .. .	28,555	10,130	3,553
Mauritius—			
Superphosphates .. .. .	341	529	409
Phosphatic guano .. .. .	872	1,557	641
Nyasaland—			
Phosphates .. .. .	247	(a)	(a)
Southern Rhodesia—			
Superphosphates .. .. .	2,410	3,817	2,313
Union of South Africa—			
Phosphate-rock .. .. .	56,767	43,605	60,034
Superphosphates .. .. .	49,813	68,149	56,283
Basic slag .. .. .	8,695	5,812	2,806
Canada—			
Phosphate-rock .. .. .	126,538	63,779	16,384
Superphosphates .. .. .	87,543	54,195	48,604
Basic slag .. .. .	11,554	6,844	4,106
Trinidad and Tobago—			
Superphosphates .. .. .	(a)	244	384
British India (total imports)—			
Superphosphates .. .. .	2,910	3,781	2,463
British Malaya—			
Phosphate-rock .. .. .	30	90	7
Ceylon—			
Phosphate-rock .. .. .	4,849	941	—
Superphosphates .. .. .	4,267	4,294	1,081
Basic slag .. .. .	1,480	801	295
Australia—			
Phosphate-rock .. .. .	284,713	441,925	384,064
Superphosphates .. .. .	—	—	1,994
New Zealand—			
Phosphate-rock .. .. .	149,837	198,552	159,753
Superphosphates .. .. .	299	—	—
Basic slag .. .. .	70,322	46,303	29,870

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES			
Austria—			
Phosphate-rock .. .. .	15,256	8,442	22,454
Superphosphates .. .. .	1,692	1,343	1,499
Basic slag .. .. .	41,885	27,871	16,438
Belgium-Luxemburg E.U.—			
Phosphate-rock .. .. .	238,087	247,425	306,691
Superphosphates .. .. .	15,629	17,164	28,202
Basic slag .. .. .	144,591	72,692	85,867
Czechoslovakia—			
Phosphate-rock .. .. .	67,165	46,863	77,458
Superphosphates .. .. .	3,431	789	58
Basic slag .. .. .	34,871	28,669	32,362
Denmark—			
Phosphate-rock .. .. .	124,322	89,219	138,209
Superphosphates .. .. .	106,219	84,708	36,016
Basic slag .. .. .	5,398	2,352	240
Estonia—			
Phosphate-rock .. .. .	231	—	—
Superphosphates .. .. .	20,542	18,394	22,242
Basic slag .. .. .	492	—	—
Finland (total imports)—			
Phosphate-rock .. .. .	13,286	23,290	29,641
Superphosphates .. .. .	10,123	3,923	11,561
Basic slag .. .. .	30,876	16,556	8,943
France—			
Phosphate-rock .. .. .	945,857	849,103	968,395
Superphosphates .. .. .	61,646	126,987	123,512
Basic slag .. .. .	34,605	63,487	34,548
Germany—			
Phosphate-rock, etc. .. .. .	606,674	401,474	677,358
Superphosphates <sup>(b)</sup> .. .. .	114,534	119,950	24,113
Basic slag .. .. .	1,086,789	783,189	996,539
Hungary—			
Phosphate-rock .. .. .	909	—	(a)
Superphosphates .. .. .	2,398	84	—
Basic slag .. .. .	1,142	—	—
Iceland—			
Superphosphates .. .. .	32	51	(a)

(a) Information not available.

(b) Figures supplied by the International Superphosphates Manufacturers' Association.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—			
Phosphate-rock .. .. .	442,343	389,146	647,723
Superphosphates, including bone superphosphates .. .. .	32,999	20,762	20,614
Basic slag .. .. .	38,271	37,336	36,316
Latvia—			
Phosphate-rock .. .. .	17,853	26,537	37,421
Superphosphates .. .. .	13,064	347	991
Basic slag .. .. .	22,988	4,159	6,198
Lithuania—			
Phosphate-rock .. .. .	20,831	24,709	26,536
Superphosphates .. .. .	47,229	28,043	27,315
Basic slag .. .. .	11,870	5,370	3,489
Netherlands—			
Phosphate-rock .. .. .	291,488	305,886	328,810
Superphosphates .. .. .	41,128	52,657	45,687
Basic slag .. .. .	279,935	257,170	161,688
Norway—			
Phosphate-rock .. .. .	5,230	11,553	14,927
Superphosphates .. .. .	30,931	28,193	26,287
Basic slag .. .. .	9,859	7,935	2,854
Poland—			
Phosphate-rock .. .. .	55,728	14,485	46,057
Superphosphates .. .. .	368	156	142
Basic slag .. .. .	103,482	50,804	40,743
Portugal—			
Phosphate-rock .. .. .	106,298	108,606	100,369
Superphosphates .. .. .	531	631	4,486
Roumania—			
Phosphate-rock .. .. .	244	2	1
Superphosphates .. .. .	47	7	4
Spain—			
Phosphate-rock .. .. .	439,281	554,477	494,688
Superphosphates .. .. .	3,512	133	416
Basic slag .. .. .	2,935	4,475	4,793
Sweden—			
Phosphate-rock .. .. .	120,044	81,225	105,427
Superphosphates .. .. .	19,946	7,345	5,735
Basic slag .. .. .	445	340	3,650
Switzerland—			
Superphosphates .. .. .	15,096	10,350	8,002
Basic slag .. .. .	125,363	70,869	82,568
U.S.S.R. (Russia)—			
Superphosphates .. .. .	42,872	1	—

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Yugoslavia—			
Phosphate-rock (estimated) ..	25,545	3,100	6,717
Basic slag .. .. .	1,217	354	335
Algeria—			
Phosphate-rock .. .. .	636	2,114	(a)
Superphosphates .. .. .	25,051	25,781	30,147
Double superphosphates, etc. ..	257	115	(a)
Basic slag .. .. .	9,554	2,879	(a)
Canary Islands (total imports)—			
Superphosphates .. .. .	18,133	13,936	(a)
Egypt—			
Superphosphates .. .. .	31,429	22,179	39,710
Basic slag .. .. .	7	7	1
Morocco—			
Phosphates.. .. .	6,467	5,256	3,803
Tunis—			
Phosphate-rock .. .. .	12,967	19,213	8,604
Superphosphates .. .. .	10,739	4,480	6,298
Basic slag .. .. .	771	2,684	1,083
Cuba—			
Superphosphates, etc. .. .. .	7,917	(a)	(a)
United States—			
Phosphate-rock .. .. .	13,496	6,375	7,725
Other crude phosphates .. .. .	1,249	89	—
Superphosphates .. .. .	5,337	21,881	23,705
Basic slag .. .. .	1,464	2,189	863
Chile—			
Basic slag .. .. .	6,344	2,657	1,008
China—			
Superphosphates .. .. .	(a)	1,310	1,184
Formosa—			
Phosphate-rock .. .. .	2,000	5,500	(a)
Superphosphates .. .. .	31,607	41,143	(a)
French Indo-China—			
Superphosphates .. .. .	3,741	1,207	1,132
Japan (total imports)—			
Phosphate-rock .. .. .	405,509	550,583	692,572
Netherlands East Indies—			
Superphosphates .. .. .	5,580	3,475	3,716
Philippine Islands—			
Superphosphates .. .. .	1,503	1,165	(a)
Syria and Lebanon—			
Phosphates.. . . .	113	307	217

(a) Information not available.

## PLATINUM

### PRODUCTION OF PLATINUM METALS

(Troy ounces)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Sierra Leone—			
Crude platinum .. .. .	594	531	423
Union of South Africa—			
Crude ( <i>content</i> ) .. .. .	41,220	7,766	—
Concentrates ( <i>content</i> ) .. .. .	5,943	1,480	2,386
Osmiridium (crude) ( <i>c</i> ) .. .. .	6,306	6,523	6,712
Canada—			
Crude platinum ( <i>content</i> ) .. .. .	50	59	40
Recovered from Ontario nickel-copper matte :			
Platinum .. .. .	44,725	27,284	24,746
Palladium .. .. .	39,313	29,727	} 31,009
Other metals .. .. .	7,605	7,886	
New South Wales—			
Crude platinum .. .. .	283	336	113
Tasmania—			
Osmiridium (crude) .. .. .	1,280	785	548
New Zealand—			
Crude platinum .. .. .	1	—	4
Papua (years ended June 30)—			
Crude platinum .. .. .	—	2	—
Osmiridium (crude) .. .. .	20	1	29
<b>FOREIGN COUNTRIES</b>			
U.S.S.R. (Russia)—			
Crude platinum (estimated) .. .. .	100,000	100,000	100,000
Abyssinia ( <i>c</i> )—			
Crude platinum .. .. .	6,232	8,217	6,650
Belgian Congo—			
Palladium .. .. .	—	2,025	559

(c) Amount registered, which is probably not total production.



PRODUCTION OF PLATINUM METALS (*Cont.*)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
United States ( <i>b</i> )—			
Crude platinum .. .. .	885	1,074	1,266
New platinum metals recovered by refineries from gold and copper ores of domestic origin—			
Platinum .. .. .	5,397	1,694	1,050
Palladium .. .. .	2,595	1,147	698
Iridium .. .. .	49	2	8
Osmiridium .. .. .	—	1	—
Others .. .. .	85	—	1
Colombia—			
Crude platinum .. .. .	35,793	40,478	45,971
Japan—			
Crude platinum .. .. .	275	266	( <i>a</i> )

(*b*) Secondary metals were recovered as follows (troy ounces)—

	1931	1932	1933
Platinum .. .. .	33,837	21,635	35,073
Palladium .. .. .	6,331	5,783	4,814
Iridium .. .. .	1,823	3,726	692
Others .. .. .	1,743	1,444	783

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

	1931	1932	1933
Osmium .. .. .	1,989	1,603	2,602
Iridium .. .. .	1,680	1,365	2,082
Ruthenium .. .. .	813	655	1,071
Platinum .. .. .	737	616	876
Rhodium .. .. .	30	25	30

## EXPORTS OF PLATINUM.\*

*(Domestic Produce)**(Troy ounces)*

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Unrefined platinum .. .. .	47	—	277
Refined platinum .. .. .	14,847	6,889	14,946
Alloys .. .. .	425	247	1,637
Sierra Leone—			
Unrefined platinum .. .. .	590	494	325
Union of South Africa—			
Osmiridium .. .. .	5,773	5,384	6,113
Platinum .. .. .	38,021	7,800	26,133
Canada—			
Concentrates, etc. ( <i>content</i> ) (b) ..	14,202	14,570	29,228
Scrap .. .. .	81	50	189
Australia—			
Bars, blocks, rods, plates, etc. ..	1,652	1,103	747
Osmiridium .. .. .	1,335	1,067	637
New Zealand—			
Refined platinum .. .. .	14	22	19
Papua (years ended June 30)—			
Osmiridium .. .. .	47	1	—
FOREIGN COUNTRIES			
Austria—			
Ingots, sheets and wire .. .. .	30	30	—
Belgium-Luxemburg E.U.—			
Unwrought .. .. .	(£50,100)	(£111,900)	(£63,200)
France—			
Unwrought platinum and scrap ..	4,373	14,564	14,371
Drawn or rolled platinum .. .. .	16,847	7,170	9,677
Germany—			
Platinum metals and alloys .. .. .	84,765	22,342	82,177
Italy—			
Sheets, bars, dust, scrap, etc. ..	1,132	1,262	1,656

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

(b) Excluding platinum contained in copper matte.

EXPORTS OF PLATINUM (*Cont.*)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Netherlands—			
Unwrought platinum .. ..	418	1,190	5,208
Poland—			
Ingots, sheets, wire, etc. ..	31	48	9
Sweden—			
Unwrought platinum .. ..	71	99	218
Switzerland—			
Unwrought platinum .. ..	225	1,061	289
U.S.S.R. (Russia) .. ..	(b)	(b)	(b)
United States—			
Ingots, sheets, wire, etc. ..	1,209	20,106	23,686
Colombia—			
Platinum .. ..	42,612	16,051	(a)

(a) Information not available.

(b) Exports of platinum from U.S.S.R. (Russia) are not published.

## IMPORTS OF PLATINUM\*

*(Less Re-exports)*

(Troy ounces)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Unrefined platinum .. ..	16,897	2,196	5,069
Refined platinum .. .. .	43,171	(b) 39,345	6,224
Alloys .. .. .	62	207	364
Canada—			
Bars, sheets, wire, etc. .. .	(£9,686)	(£7,459)	(£10,895)
Crucibles .. .. .	(£1,522)	(£2,164)	(£2,889)
Newfoundland (years ended June 30)			
Platinum .. .. .	(£74)	—	(a)
Australia—			
Bars, rods, plates, etc. .. .	186	380	486
New Zealand—			
Bars, blocks and rods, etc. ..	51	49	87
FOREIGN COUNTRIES			
Austria—			
Ingots, sheets and wire .. .	3,000	800	1,500
Belgium-Luxemburg E.U.—			
Unwrought platinum .. ..	(£20,200)	(£17,600)	(£74,400)
Bulgaria—			
Ingots, bars, sheet and wire ..	2	28	14
Denmark—			
Rods, sheets and wire .. .	32	96	289
Finland (total imports)—			
Unwrought platinum .. ..	32	21	57
France—			
Unwrought platinum and scrap ..	38,902	32,086	59,222
Drawn or rolled platinum .. .	8,231	3,987	4,855
Germany—			
Platinum metals and alloys ..	110,422	107,605	114,151
Hungary—			
Bars, sheets and wire .. .	353	64	996

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

(a) Information not available.

(b) Excess of re-exports.

## IMPORTS OF PLATINUM (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Italy—			
Bars, dust and scrap .. ..	2,268	3,579	6,695
Sheets and foil .. .. .	1,915	37	12
Wire .. .. .	255	38	48
Latvia—			
Ingots, sheets and wire .. ..	—	9	14
Netherlands—			
Unwrought platinum .. ..	3,279	2,797	9,067
Norway—			
Sheets, rolled and wire .. ..	120	30	320
Poland—			
Ingots, sheets, wire, etc. .. ..	588	274	966
Roumania—			
Ingots, sheets and wire .. ..	103	318	375
Spain (total imports)—			
Unwrought platinum .. ..	900	965	—
Bars, sheets, wire, etc. .. ..	45	961	328
Sweden—			
Unwrought platinum .. .. .	262	3	548
Switzerland—			
Unwrought platinum .. ..	1,125	1,254	2,958
Egypt—			
Ingots, bars, sheets, etc. .. ..	331	339	828
Cuba (total imports)—			
Bars .. .. .	3	(a)	(a)
United States—			
Ore ( <i>Pt content</i> ) .. .. .	1,097	160	5
Ingots, sheets, etc. .. ..	90,631	33,058	111,278
Iridium, palladium, etc. .. ..	37,904	22,829	50,797
Brazil (total imports)—			
Ingots, sheets and wire .. ..	322	204	(a)
Venezuela—			
Unwrought platinum .. ..	586	16	(a)
Japan (total imports)—			
Platinum .. .. .	32,229	11,075	33,137
Turkey—			
Plates, sheets and wire .. ..	32	(a)	(a)

(a) Information not available.

## POTASH MINERALS

PRODUCTION OF POTASH  
(Long tons)

Producing Country and Description	1931	1932	1933	K <sub>2</sub> O Content or Equivalent		
				1931	1932	1933
BRITISH EMPIRE						
Palestine—						
Carnallite ..	40,000	10,000	(a)	(a)	5,000	(a)
India—						
Nitrate (estimated)	7,000	9,000	10,000	3,400	4,300	4,800
Total (estimated)				(a)	9,300	(a)
FOREIGN COUNTRIES						
France (c)—						
K <sub>2</sub> O equivalent—						
Sylvinite, etc. :						
12-16% ..	118,124	102,213	131,015	} 362,070	316,155	321,353
18-22% ..	446,210	388,361	497,692			
30-40% ..	142,070	94,849	122,277			
50% and over ..	363,605	337,324	284,039			
Germany—						
Kainite, sylvinite, etc. ..	6,881,691	5,688,310	(a)	961,232	797,314	} (b) 925,000
Carnallite, etc. ..	1,042,548	625,896	(a)	99,390	60,278	
Italy—						
Leucite .. ..	16,000	43,000	—	(a)	(a)	—
Alunite .. ..	974	700	526	100	70	50
Poland—						
Kainite .. ..	58,186	44,108	61,549	6,500	4,900	6,869
Sylvite .. ..	199,006	249,996	232,870	59,200	74,400	69,279
Spain—						
Chlorides, etc. ..	84,470	99,776	(a)	27,672	53,945	89,674
Nitrified earth ..	1,083	738	(a)	(a)	(a)	(a)
Egypt—						
Crude salts .. ..	1	8	4	—	(a)	(a)
United States—						
Crude salts .. ..	119,571	127,786	290,608	57,036	55,348	124,167
Korea—						
Alunite (impure)	13,600	16,062	(a)	(a)	(a)	(a)
Total .. ..				1,570,000	1,360,000	
WORLD'S TOTAL				1,570,000	1,370,000	

(a) Information not available.

(b) Sales.

(c) Crude salts mined were as follows—1931—2,162,000 long tons.

EXPORTS OF POTASH SALTS  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Fertilizer salts .. .. .	204	367	95
Chromate and bichromate .. .. .	886	737	785
Nitrate .. .. .	717	994	1,146
Other compounds .. .. .	2,085	1,553	1,794
Canada—			
Fertilizer salts .. .. .	7	—	—
Aden (including re-exports)—			
Compounds .. .. .	267	268	310
British India—			
Nitrate .. .. .	6,156	8,289	9,478
British Malaya (including re-exports)—			
Nitrate .. .. .	114	185	226
Hong Kong (including re-exports)—			
Nitrate .. .. .	112	72	132
Chlorate .. .. .	1,178	1,046	1,086
FOREIGN COUNTRIES			
Austria—			
Fertilizer salts .. .. .	—	5	—
Carbonate .. .. .	14	37	229
Caustic potash .. .. .	3	4	8
Chloride .. .. .	—	—	43
Nitrate .. .. .	246	305	242
Belgium-Luxemburg E.U.—			
Fertilizer salts .. .. .	217,409	100,729	150,625
Carbonate .. .. .	2,553	2,305	1,509
Caustic potash and lyes .. .. .	1,811	1,762	2,545
Chloride .. .. .	135,456	66,956	74,878
Chlorate .. .. .	26	118	138
Chromates, including those of sodium .. .. .	208	536	541
Nitrate .. .. .	15	260	1,243
Sulphate .. .. .	3,879	2,982	25,244
Bulgaria—			
Carbonate .. .. .	25	—	15
Czechoslovakia—			
Fertilizer salts .. .. .	1	1	17
Carbonate .. .. .	2,945	1,423	1,306
Chloride .. .. .	1,109	645	128

## EXPORTS OF POTASH SALTS (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—(cont.)			
Manganate and permanganate, including those of sodium ..	1,032	679	895
Nitrate .. .. .	85	24	25
Sulphate .. .. .	718	635	315
Sulphide, including sodium sulphide	83	42	34
Finland—			
Chlorate .. .. .	2,652	975	524
France—			
Kainite .. .. .	7	37	2
Carbonate .. .. .	482	690	889
Caustic potash .. .. .	4,361	5,404	5,741
Chlorate .. .. .	2,033	2,348	1,842
Chloride .. .. .	465,339	316,662	407,640
Chromates .. .. .	2	4	9
Nitrate—			
Natural .. .. .	333	485	575
Synthetic .. .. .	3,215	1,732	1,518
Permanganate .. .. .	59	390	536
Sulphate .. .. .	1,775	2,809	14,941
Germany—			
Fertilizer salts .. .. .	532,336	453,724	506,030
Carbonate and wool grease ash ..	12,225	12,031	14,763
Caustic potash .. .. .	31,240	30,203	31,690
Chlorate .. .. .	12,248	10,631	10,611
Manganate and permanganate ..	931	570	643
Nitrate .. .. .	35,675	27,982	23,332
Sulphates and chloride .. .. .	349,666	219,237	221,118
Hungary—			
Fertilizer salts .. .. .	85	84	172
Carbonate .. .. .	1,014	761	646
Italy—			
Fertilizer salts .. .. .	215	36	60
Carbonate .. .. .	4	4	249
Caustic potash .. .. .	1	8	3
Chloride .. .. .	41	15	14
Nitrate .. .. .	3	1	1
Netherlands—			
Fertilizer salts .. .. .	121	116	2,229
Caustic potash .. .. .	627	964	1,007
Chloride .. .. .	319	394	942
Nitrate .. .. .	295	115	44
Sulphate .. .. .	194	439	193



## EXPORTS OF POTASH SALTS (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Poland—			
Fertilizer salts .. .. .	67,791	59,047	56,914
Caustic potash .. .. .	116	15	18
Chlorate .. .. .	184	214	276
Nitrate .. .. .	1	—	35
Roumania—			
Chlorate .. .. .	23	2	—
Spain—			
Fertilizer salts .. .. .	25,244	64,947	195,518
Caustic potash and soda .. .. .	154	261	2,350
Sweden—			
Carbonate .. .. .	4	11	8
Chlorate .. .. .	4,138	4,553	5,374
Caustic potash .. .. .	521	369	606
Switzerland—			
Caustic potash and soda .. .. .	3	4	4
Nitrate (crude) .. .. .	15,273	17,786	19,251
Nitrate, including nitrate of soda (pure) .. .. .	3,677	1,483	641
U.S.S.R. (Russia)—			
Potash .. .. .	509	—	1
Carbonate .. .. .	(a)	(a)	2,730
Yugoslavia—			
Carbonate .. .. .	45	—	—
Algeria—			
Fertilizer salts .. .. .	71	34	(a)
Sulphate .. .. .	25	2	(a)
United States—			
Fertilizer salts .. .. .	28,982	1,816	25,117
Compounds .. .. .	1,035	792	1,138
Chile—			
Potassium compounds .. .. .	2	—	—
China—			
Carbonate .. .. .	(a)	15	22
Japan—			
Chlorate .. .. .	11	274	446
Iodide .. .. .	51	61	48

(a) Information not available.

IMPORTS OF POTASH SALTS  
(Less Re-exports)  
(Long tons)

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Fertilizer salts .. .. .	101,166	68,092	61,721
Carbonate .. .. .	2,993	2,846	3,223
Caustic potash and lyes .. .. .	6,025	5,346	5,501
Chlorate .. .. .	1,224	1,015	1,123
Chloride .. .. .	37,155	37,017	35,861
Nitrate .. .. .	4,294	5,631	5,220
Sulphate .. .. .	24,722	23,025	27,561
Other compounds .. .. .	1,433	751	786
<b>Irish Free State—</b>			
Fertilizer salts (20% K <sub>2</sub> O) .. .. .	152	19	103
do. (30% K <sub>2</sub> O) .. .. .	3,392	1,515	1,290
Chlorate .. .. .	22	53	45
Chloride .. .. .	4,273	3,358	2,369
Nitrate .. .. .	165	183	212
Sulphate .. .. .	244	110	(a)
Other compounds .. .. .	39	35	61
<b>Mauritius—</b>			
Nitrate .. .. .	2,484	2,897	4,342
Sulphate .. .. .	46	30	(a)
<b>Northern Rhodesia—</b>			
Compounds .. .. .	63	45	239
<b>Nyasaland—</b>			
Potash minerals .. .. .	175	(a)	(a)
<b>Southern Rhodesia—</b>			
Compounds .. .. .	18	51	9
<b>Union of South Africa—</b>			
Fertilizer salts .. .. .	2,756	2,458	3,660
Nitrate .. .. .	137	168	25
Other compounds .. .. .	756	620	692
<b>Canada—</b>			
Fertilizer salts .. .. .	27,792	16,977	16,256
Nitrate .. .. .	935	331	298
Crude sulphate .. .. .	3,565	1,201	2,185
Other compounds .. .. .	1,953	1,360	1,672
<b>Trinidad and Tobago—</b>			
Sulphate .. .. .	(a)	79	228
<b>Aden (total imports)—</b>			
Compounds .. .. .	209	302	375

(a) Information not available.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
British India (total imports)—			
Bichromate .. .. .	276	300	177
Chlorate .. .. .	1,465	2,205	2,470
Chloride .. .. .	4,550	4,192	2,053
Other compounds .. .. .	293	276	309
British Malaya (total imports)—			
Nitrate .. .. .	139	224	259
Ceylon—			
Kainite .. .. .	1,334	99	205
Chlorides .. .. .	4,894	5,269	3,183
Nitrate refuse .. .. .	2,942	1,974	873
Sulphate .. .. .	734	504	—
Hong Kong (total imports)—			
Nitrate .. .. .	1,160	751	783
Chlorate .. .. .	1,475	1,128	1,517
Australia—			
Cyanides, including sodium cyanide .. .. .	840	948	998
Nitrate .. .. .	480	411	453
Other compounds .. .. .	1,198	1,897	1,841
New Zealand—			
Kainite .. .. .	397	710	685
Other fertilizer salts .. .. .	3,506	2,607	2,538
Chlorate .. .. .	50	28	58
Nitrate .. .. .	77	77	69
Sulphate .. .. .	772	564	658
Other compounds .. .. .	(£7,525)	(£8,930)	(£8,094)
FOREIGN COUNTRIES			
Austria—			
Fertilizer salts .. .. .	15,151	13,351	13,367
Carbonate .. .. .	691	699	141
Caustic potash .. .. .	530	427	7
Chloride .. .. .	778	931	1,115
Chromates .. .. .	69	93	290
Nitrate .. .. .	26	1	4
Sulphate .. .. .	114	132	50
Belgium Luxembourg E.U.—			
Fertilizer salts .. .. .	306,645	193,527	287,748
Carbonate .. .. .	1,633	1,349	1,818
Caustic potash and lyes .. .. .	10,566	11,275	12,114

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—(cont.)			
Chlorate .. .. .	799	698	533
Chloride .. .. .	156,569	91,200	108,478
Chromates, including those of sodium .. .. .	450	471	740
Manganate and permanganate .. .. .	190	100	144
Nitrate .. .. .	2,304	1,908	2,164
Sulphate .. .. .	1,983	6,746	6,955
Bulgaria—			
Carbonate .. .. .	2	15	1
Caustic potash .. .. .	15	13	10
Chromates .. .. .	29	29	34
Nitrate .. .. .	108	93	67
Sulphate and chloride .. .. .	37	6	36
Czechoslovakia—			
Kainite .. .. .	26,004	23,609	21,452
Fertilizer salts (18–24% K <sub>2</sub> O) .. .. .	1,515	1,629	1,102
do. do. (38–44% K <sub>2</sub> O) .. .. .	39,465	34,984	35,818
do. do. (other) .. .. .	44	40	215
Carbonate .. .. .	2	2	1
Chloride .. .. .	4,594	2,079	2,936
Nitrate .. .. .	47	2	—
Sulphate .. .. .	20	28	7
Denmark—			
Kainite .. .. .	347	—	—
Fertilizer salts (20% K <sub>2</sub> O or less) .. .. .	68	305	—
do. do. (37%–40% K <sub>2</sub> O) .. .. .	42,944	38,906	48,754
do. do. (other) .. .. .	509	225	263
Carbonate .. .. .	796	734	786
Caustic potash .. .. .	4,118	4,128	3,189
Chlorate .. .. .	137	128	137
Chromate .. .. .	16	24	22
Nitrate .. .. .	1,678	1,674	1,172
Sulphate .. .. .	—	15	87
Estonia—			
Fertilizer salts .. .. .	3,259	2,242	2,347
Carbonate .. .. .	12	16	18
Chlorate .. .. .	57	47	31
Nitrate .. .. .	21	21	15
Finland (total imports)—			
Fertilizer salts .. .. .	16,643	11,325	14,021
Carbonate .. .. .	56	193	247
Caustic potash .. .. .	39	25	42

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Finland (total imports)—(cont.)			
Chlorate .. .. .	1	3	—
Chloride .. .. .	874	1	579
Chromates .. .. .	75	100	117
Nitrate .. .. .	50	40	60
France—			
Alunite .. .. .	64	2	1
Kainite .. .. .	—	57	1
Carbonate .. .. .	1,036	799	1,042
Caustic potash .. .. .	250	196	274
Chlorate .. .. .	15	17	17
Chromate and bichromate .. .. .	545	461	660
Chloride .. .. .	4,552	7,766	4,762
Nitrate .. .. .	179	9	1
Sulphate .. .. .	3,907	589	3
Germany—			
Fertilizer salts .. .. .	19	15	147
Carbonate and wool grease ash .. .. .	942	195	54
Caustic potash .. .. .	126	116	195
Chlorate .. .. .	15	9	29
Nitrate .. .. .	12	—	—
Sulphate .. .. .	7	20	—
Greece—			
Carbonate .. .. .	359	166	393
Caustic potash .. .. .	11	8	12
Nitrate .. .. .	132	75	85
Hungary—			
Fertilizer salts .. .. .	424	496	503
Carbonate .. .. .	16	1	160
Caustic potash .. .. .	154	157	190
Iceland—			
Fertilizer salts .. .. .	3	6	(a)
Carbonate .. .. .	9	25	(a)
Caustic potash .. .. .	12	25	(a)
Nitrate .. .. .	7	5	(a)
Italy—			
Fertilizer salts .. .. .	16,517	28,598	30,067
Carbonate .. .. .	948	1,115	1,425
Caustic potash .. .. .	2,533	2,819	2,510
Chlorate .. .. .	89	74	42
Nitrate .. .. .	2,496	1,060	1,137

(a) Information not available.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Latvia—			
Fertilizer salts .. .. .	11,649	10,037	12,163
Carbonate .. .. .	77	96	85
Caustic potash .. .. .	78	101	117
Chlorate .. .. .	90	81	68
Nitrate .. .. .	37	41	51
Sulphate .. .. .	3	745	448
Lithuania—			
Kainite, etc. .. .. .	725	441	262
Fertilizer salts (20-40% K <sub>2</sub> O) .. .. .	3,322	1,306	1,132
do. other .. .. .	332	512	367
Nitrate .. .. .	92	100	19
Netherlands—			
Kainite .. .. .	19,219	10,964	18,800
Fertilizer salts (20% K <sub>2</sub> O) .. .. .	91,524	96,742	210,239
do. (40% K <sub>2</sub> O) .. .. .	25,542	52,284	68,929
Caustic potash .. .. .	570	810	770
Chloride .. .. .	2,799	2,527	3,628
Nitrate .. .. .	1,435	1,363	1,951
Sulphate .. .. .	314	333	956
Norway—			
Fertilizer salts .. .. .	19,132	19,318	16,225
Carbonate .. .. .	460	413	402
Caustic potash and lyes .. .. .	1,464	1,323	1,459
Chloride .. .. .	119	112	166
Nitrate .. .. .	117	94	104
Poland—			
Fertilizer salts .. .. .	3,745	47	45
Carbonate .. .. .	171	218	133
Caustic potash .. .. .	109	179	166
Chlorate .. .. .	114	19	46
Nitrate .. .. .	474	197	—
Portugal—			
Carbonate .. .. .	182	30	39
Caustic potash .. .. .	10	10	12
Chlorate .. .. .	145	124	97
Chloride .. .. .	803	689	1,053
Nitrate .. .. .	229	281	343
Sulphate .. .. .	935	739	981
Roumania—			
Fertilizer salts .. .. .	185	69	113
Carbonate and bicarbonate .. .. .	90	88	98

(a) Information not available.

IMPORTS OF POTASH SALTS (*Cont.*)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Roumania—( <i>cont.</i> )			
Caustic potash .. .. .	73	60	101
Chlorate .. .. .	10	10	6
Nitrate .. .. .	53	44	73
Spain—			
Fertilizer salts .. .. .	8,180	7,532	2,500
Carbonate .. .. .	341	176	274
Caustic potash and soda .. .. .	359	327	374
Chlorate .. .. .	2	20	3
Permanganate .. .. .	24	12	14
Sweden—			
Fertilizer salts (20% K <sub>2</sub> O) .. .. .	22,921	17,889	18,796
do. (40% K <sub>2</sub> O) .. .. .	42,758	45,415	37,688
do. (other) .. .. .	6,291	893	2,781
Carbonate .. .. .	1,738	1,253	1,524
Caustic potash .. .. .	3,259	2,705	2,591
Chlorate .. .. .	10	4	1
Chloride .. .. .	7,923	4,072	7,730
Nitrate .. .. .	543	456	396
Switzerland—			
Fertilizer salts .. .. .	22,159	22,028	23,857
Carbonate .. .. .	501	369	461
Caustic potash—			
Liquid .. .. .	(b) 197	(b) 130	} 1,493
Solid .. .. .	1,275	1,254	
Chloride .. .. .	1,628	968	729
Nitrate, crude .. .. .	1,089	1,139	1,988
Nitrate purified, including sodium nitrate .. .. .	376	287	528
U.S.S.R. (Russia)—			
Fertilizer salts .. .. .	13	—	—
Nitrate .. .. .	2,170	1,352	298
Yugoslavia—			
Fertilizer salts .. .. .	1,537	558	762
Carbonate .. .. .	55	37	43
Caustic potash .. .. .	27	52	41
Chromates .. .. .	30	74	42
Nitrate .. .. .	27	13	11
Algeria—			
Fertilizer salts .. .. .	9,794	7,983	} (a)
Carbonate .. .. .	9	21	
Caustic potash .. .. .	44	32	
Chlorate .. .. .	104	25	
Nitrate .. .. .	32	312	
Sulphate .. .. .	2,275	3,153	

(a) Information not available.

(b) Including caustic soda.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Cameroon (French)—			
Potash salts .. .. .	5	1	2
Canary Islands (total imports)—			
Chlorate .. .. .	137	1	(a)
Egypt—			
Fertilizer salts .. .. .	1,190	2,500	155
Carbonate .. .. .	1	1	8
Caustic potash .. .. .	23	5	9
Chlorate .. .. .	9	6	6
Chromates, including those of sodium .. .. .	306	284	355
Manganates .. .. .	35	28	23
French Togoland—			
Carbonate .. .. .	4	5	4
Morocco—			
Fertilizer salts .. .. .	3,402	2,293	1,115
Carbonate .. .. .	203	258	20
Tunis—			
Carbonate .. .. .	9	209	4
Chlorate .. .. .	3	7	7
Chloride .. .. .	1,245	1,542	20
Nitrate .. .. .	6	17	52
Sulphate .. .. .	756	167	49
Mexico—			
Nitrate, including nitrate of soda	4,551	1,897	4,426
United States—			
Kainite (total imports) .. .. .	55,329	49,374	101,989
Fertilizer salts .. .. .	179,428	100,927	113,121
Carbonate .. .. .	6,071	4,666	6,019
Caustic potash (total imports) .. .. .	3,852	2,223	3,007
Chlorates (total imports) .. .. .	5,543	5,095	6,145
Chloride .. .. .	179,675	78,284	105,055
Cyanide (total imports) .. .. .	42	24	38
Nitrate (total imports) .. .. .	15,509	17,067	25,593
Sulphate (total imports) .. .. .	56,842	28,071	59,325
Argentina—			
Bichromate .. .. .	98	66	123
Carbonate .. .. .	53	25	79
Caustic potash .. .. .	67	105	117
Chlorate .. .. .	135	42	55
Cyanide .. .. .	37	25	28
Nitrate .. .. .	145	172	110
Sulphate .. .. .	1	1	7

(a) Information not available.



## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Brazil (total imports)—			
Caustic potash .. .. .	16	18	} (a)
Nitrate .. .. .	1,851	2,966	
Potash and soda ash .. .. .	7,973	8,453	
Chile—			
Fertilizer salts .. .. .	746	20	—
Bichromate .. .. .	36	60	39
Carbonate .. .. .	8	19	—
Caustic potash .. .. .	14	20	—
Chlorate, etc. .. .. .	96	66	74
Nitrate, etc. .. .. .	14	2	(a)
Sulphate .. .. .	10	—	(a)
Colombia—			
Carbonate .. .. .	(a)	14	} (a)
Caustic potash .. .. .	7	10	
Chlorate .. .. .	92	76	
Nitrates of potash and soda .. .. .	17	1	
Ecuador—			
Bichromate .. .. .	2	3	} (a)
Caustic potash .. .. .	6	4	
Chlorate .. .. .	11	5	
Peru—			
Fertilizer salts .. .. .	558	120	18
Caustic potash .. .. .	71	15	15
Venezuela—			
Carbonate .. .. .	3	9	} (a)
Caustic potash .. .. .	8	2	
Nitrate .. .. .	32	52	
China—			
Chromates .. .. .	(a)	186	272
Chlorate .. .. .	(a)	4,006	4,571
Nitrate .. .. .	1,652	1,532	1,029
Formosa—			
Chloride .. .. .	271	207	(a)
Sulphate .. .. .	1,064	863	(a)
French Indo-China—			
Carbonate .. .. .	150	91	55
Chlorate .. .. .	341	59	158
Chloride .. .. .	120	—	—
Nitrate .. .. .	59	30	51
Sulphate .. .. .	173	5	1

(a) Information not available.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Japan (total imports)—			
Bichromate .. .. .	160	104	157
Chlorate .. .. .	2,278	1,003	542
Chloride .. .. .	28,020	13,957	9,554
Cyanide, including sodium cyanide	583	448	352
Sulphate .. .. .	37,902	18,402	23,011
“Manchoukuo”—			
Chlorate .. .. .	(a)	137	320
Nitrate .. .. .	(a)	129	48
Netherlands East Indies—			
Fertilizer salts .. .. .	856	313	518
Caustic potash .. .. .	75	74	61
Nitrate .. .. .	149	49	63
Philippine Islands—			
Chlorate .. .. .	26	6	(a)
Sulphate .. .. .	345	428	(a)
Syria and Lebanon—			
Caustic potash .. .. .	3	1	2
Chloride .. .. .	—	—	18
Turkey—			
Carbonate .. .. .	649	495	(a)
Caustic potash .. .. .	5	33	(a)

(a) Information not available.

**PYRITES**

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

Producing Country	1931	1932	1933	Estimated Sulphur Content		
				1931	1932	1933
<b>BRITISH EMPIRE</b>						
United Kingdom ..	1,979	992	1,132	(a)	(a)	(a)
Southern Rhodesia Union of South Africa ..	—	268	10,905	—	100	4,400
Canada (c) ..	3,708	3,382	3,606	(a)	(a)	(a)
Cyprus .. ..	56,512	46,464	(a)	28,367	23,175	(a)
Australia .. ..	193,845	159,858	211,613	96,923	79,929	105,807
	507	274	1,498	(a)	(a)	(a)
<b>Total ..</b>	<b>257,000</b>	<b>211,000</b>	<b>(a)</b>			
<b>FOREIGN COUNTRIES</b>						
Czechoslovakia ..	20,367	15,393	(a)	8,045	6,465	(a)
France .. ..	189,684	187,743	165,762	86,727	86,400	76,000
Germany .. ..	220,459	172,449	(a)	95,025	74,154	(a)
Greece .. ..	139,208	85,397	(a)	66,292	41,502	(a)
Italy .. ..	635,560	508,796	712,271	295,662	233,944	331,000
Norway .. ..	354,266	715,538	850,921	157,544	313,951	376,692
Poland .. ..	3,534	—	(a)	1,500	—	(a)
Portugal .. ..	282,671	234,116	207,333	130,000	110,000	100,000
Roumania .. ..	24,650	5,543	13,725	10,300	2,300	5,800
Spain .. ..	2,552,965	2,091,761	(a)	1,240,000	1,200,000	(a)
Sweden .. ..	56,699	70,404	84,932	22,429	27,521	34,000
Yugoslavia .. ..	29,029	15,470	17,489	12,000	6,400	7,300
Algeria .. ..	21,467	21,318	15,800	9,600	9,800	7,360
United States (b) ..	330,848	186,485	274,476	121,503	64,826	121,503
Japan .. ..	551,522	714,606	(a)	220,000	290,000	(a)
Korea .. ..	—	7,017	(a)	—	(a)	(a)
" Manchoukuo " ..	3,857	3,563	(a)	1,400	1,300	(a)
<b>Total (d) ..</b>	<b>5,400,000</b>	<b>5,000,000</b>	<b>(a)</b>			
<b>WORLD'S TOTAL (d)</b>	<b>5,700,000</b>	<b>5,200,000</b>	<b>(a)</b>			

\* See also Sulphur (page 369).

(a) Information not available.

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

(c) Includes pyrite ore also concentrates made from copper ores.

(d) Excluding U.S.S.R. (Russia).

## EXPORTS OF PYRITES

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Iron-pyrites and cupreous pyrites	18,365	7,811	7,956
Canada—			
Pyrites ( <i>S content</i> ) .. .. .	23,762	15,585	13,703
Cyprus—			
Cupreous pyrites .. .. .	199,786	177,630	209,970
FOREIGN COUNTRIES			
Czechoslovakia—			
Pyrites .. .. .	15	—	—
Denmark—			
Pyrites .. .. .	369	—	—
France—			
Iron-pyrites .. .. .	2,996	17,970	3,349
Germany—			
Pyrites, etc. .. .. .	42,044	31,329	32,511
Greece—			
Iron-pyrites .. .. .	128,808	88,431	135,018
Italy—			
Iron-pyrites .. .. .	245,392	256,683	299,239
Netherlands—			
Iron-pyrites .. .. .	5,955	5,459	9,540
Norway—			
Iron-pyrites .. .. .	168,469	192,841	241,349
Cupreous pyrites .. .. .	217,099	274,363	325,473
Poland—			
Iron-pyrites .. .. .	59	20	—
Portugal—			
Copper ore and cupreous pyrites ..	235,104	199,211	281,444
Roumania .. .. .	318	266	—
Spain—			
Iron-pyrites .. .. .	1,374,735	1,303,044	1,681,485
Cupreous pyrites, containing not more than 2½% Cu .. .. .	502,912	346,611	196,339
Copper ore and cupreous pyrites, containing more than 2½% Cu ..	—	14	163
Sweden .. .. .	2,520	1,476	2,140
Yugoslavia .. .. .	19,847	10,165	9,936
United States .. .. .	26,604	—	—

## IMPORTS OF PYRITES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Iron and cupreous pyrites .. .. .	268,280	300,640	295,567
Irish Free State .. .. .	32,113	21,223	21,478
Union of South Africa—			
Iron-pyrites .. .. .	7,341	7,000	12,504
FOREIGN COUNTRIES			
Austria—			
Iron-pyrites .. .. .	48,657	47,485	58,130
Czechoslovakia .. .. .	125,987	93,182	122,352
Denmark .. .. .	56,337	52,596	72,840
France—			
Iron-pyrites .. .. .	575,199	546,473	449,626
Germany—			
Pyrites, etc. .. .. .	694,883	640,510	835,692
Hungary .. .. .	6,603	152	(a)
Italy—			
Iron-pyrites .. .. .	102,793	98,160	116,271
Cupreous pyrites .. .. .	—	9,752	4,411
Latvia .. .. .	10,408	5,569	16,517
Netherlands—			
Iron-pyrites .. .. .	317,215	348,278	372,699
Poland—			
Iron-pyrites .. .. .	16,988	28,372	24,904
Sweden .. .. .	133,907	119,691	163,128
Yugoslavia .. .. .	7,285	—	—
Algeria .. .. .	6,452	4,019	(a)
Morocco—			
Iron pyrites .. .. .	6,075	3,479	3,394
United States .. .. .	352,066	253,248	374,426

(a) Information not available.

## QUICKSILVER

### PRODUCTION OF QUICKSILVER (Lb.)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE.</b>			
New Zealand .. .. .	34,200	1,500	7,500
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	998	2,200	440
Czechoslovakia .. .. .	168,927	99,329	(a)
Italy .. .. .	2,861,679	2,240,518	1,348,306
Roumania .. .. .	551	168	600
Spain .. .. .	1,503,843	1,797,978	(a)
Algeria .. .. .	82,000	90,041	(a)
Mexico .. .. .	554,183	557,176	340,372
United States .. .. .	1,895,972	959,272	714,552
Bolivia (exports) .. .. .	77,645	(a)	(a)
Peru (exports) .. .. .	157	—	—
China .. .. .	49,000	(a)	(a)
Japan .. .. .	7,725	5,256	(a)
Korea .. .. .	3,085	2,050	(a)
Turkey .. .. .	17,925	(a)	1,748
<b>WORLD'S TOTAL (b) .. .. .</b>	<b>7,300,000</b>	<b>5,800,000</b>	<b>(a)</b>

(a) Information not available.

(b) Excluding U.S.S.R. (Russia).

## EXPORTS OF QUICKSILVER, ETC.

*(Domestic Produce)*

(Lb.)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Quicksilver .. .. .	2,508	947	1,092
British Malaya (including re- exports)—			
Quicksilver .. .. .	243	213	393
Hong Kong (including re- exports)—			
Cinnabar .. .. .	30,800	5,067	23,467
Quicksilver .. .. .	12,667	60,800	50,933
Australia—			
Quicksilver .. .. .	100	224	—
New Zealand—			
Quicksilver .. .. .	33,916	—	9,000
FOREIGN COUNTRIES			
Austria—			
Quicksilver .. .. .	5,100	3,100	400
Belgium-Luxemburg E.U.—			
Quicksilver .. .. .	29,800	31,700	84,400
Czechoslovakia—			
Quicksilver .. .. .	83,800	57,300	2,000
France—			
Quicksilver .. .. .	5,100	9,300	7,100
Mercury salts .. .. .	5,700	6,400	7,900
Germany—			
Cinnabar .. .. .	57,100	21,200	16,300
Quicksilver and amalgam .. .. .	45,900	65,000	110,900
Mercury salts .. .. .	112,000	151,700	181,200
Italy—			
Quicksilver .. .. .	1,081,800	1,829,600	2,510,600
Chloride of mercury .. .. .	145,700	125,900	31,700
Sulphide of mercury .. .. .	28,200	20,100	35,500
Other mercury salts .. .. .	14,100	25,400	19,000
Netherlands—			
Quicksilver and amalgam .. .. .	12,044	2,205	1,944

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

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Poland—			
Quicksilver .. .. .	—	—	200
Mercury salts .. .. .	40	—	—
Spain—			
Quicksilver .. .. .	1,033,300	1,835,800	3,186,800
Mercury salts .. .. .	5,710	2,238	—
Sweden—			
Quicksilver .. .. .	461	134	798
Switzerland—			
Quicksilver .. .. .	32,218	7,524	225
Algeria—			
Quicksilver .. .. .	94,600	11,500	(a)
Mexico—			
Quicksilver .. .. .	551,843	571,775	332,788
United States—			
Quicksilver .. .. .	378,784	16,264	(a)
Bolivia—			
Quicksilver .. .. .	77,645	(a)	(a)
Chile—			
Quicksilver .. .. .	1,673	690	(a)
China—			
Quicksilver .. .. .	250,500	7,600	28,100
Vermilion .. .. .	(a)	2,000	2,754
“Manchoukuo”—			
Quicksilver .. .. .	(a)	267	—
Turkey—			
Quicksilver .. .. .	19,004	—	(a)

(a) Information not available.



IMPORTS OF QUICKSILVER, ETC.  
(Less Re-exports)  
(Lb.)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Quicksilver .. .. .	836,423	933,884	845,025
Southern Rhodesia—			
Quicksilver .. .. .	17,182	24,521	39,217
Tanganyika—			
Quicksilver .. .. .	(a)	562	1,101
Union of South Africa—			
Quicksilver .. .. .	56,706	55,257	64,673
Canada—			
Cinnabar .. .. .	10	7	—
Quicksilver .. .. .	21,159	43,230	49,066
Mercury salts .. .. .	(£2,593)	(£931)	(£372)
British India (total imports)—			
Quicksilver .. .. .	185,667	332,749	239,090
British Malaya (total imports)—			
Quicksilver .. .. .	3,685	4,797	2,895
Hong Kong (total imports)—			
Cinnabar .. .. .	5,200	2,133	3,600
Quicksilver .. .. .	167,333	251,200	228,400
Australia—			
Quicksilver .. .. .	20,800	29,000	42,255
Mercury salts .. .. .	100	14,400	25,594
New Zealand—			
Quicksilver .. .. .	1,722	3,897	5,308
FOREIGN COUNTRIES			
Austria—			
Quicksilver .. .. .	25,100	20,700	15,400
Belgium-Luxemburg E.U.—			
Quicksilver .. .. .	160,500	157,200	210,500
Sulphide of mercury .. .. .	7,500	2,400	2,400
Mercury salts .. .. .	4,900	4,900	4,900
Bulgaria—			
Quicksilver .. .. .	1,984	1,664	4,907
Czechoslovakia—			
Quicksilver .. .. .	13,900	59,400	72,100

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Quicksilver .. .. .	3,300	5,100	7,100
Estonia—			
Quicksilver .. .. .	655	518	829
Mercury salts .. .. .	1,162	1,027	1,206
Finland (total imports)—			
Cinnabar .. .. .	4,467	4,643	3,186
Quicksilver and amalgam .. .. .	3,754	3,020	3,490
France—			
Quicksilver .. .. .	397,300	334,200	324,300
Mercury salts .. .. .	64,600	62,400	65,900
Germany—			
Cinnabar .. .. .	900	700	—
Quicksilver and amalgam .. .. .	744,900	787,500	1,076,700
Mercury salts .. .. .	183,600	98,300	29,800
Greece—			
Quicksilver .. .. .	3,080	2,866	2,923
Hungary—			
Quicksilver .. .. .	11,200	9,900	(a)
Mercury sulphide .. .. .	900	900	1,100
Italy—			
Quicksilver .. .. .	1,100	400	200
Mercury salts .. .. .	1,500	1,500	4,600
Latvia—			
Quicksilver .. .. .	873	1,567	1,629
Mercury salts .. .. .	1,929	3,660	2,526
Lithuania—			
Quicksilver .. .. .	—	1,100	700
Netherlands—			
Quicksilver and amalgam .. .. .	28,376	15,748	17,148
Norway—			
Quicksilver .. .. .	(a)	(a)	2,751
Poland—			
Cinnabar .. .. .	1,500	1,800	1,300
Quicksilver .. .. .	37,900	26,900	25,100
Mercury salts .. .. .	19,000	14,800	71,000
Portugal—			
Quicksilver .. .. .	9,072	62,600	12,491
Mercury salts .. .. .	11,045	18,983	14,641
Roumania—			
Quicksilver .. .. .	16,114	15,818	19,782
Mercury salts .. .. .	10,018	8,602	7,679

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Spain—			
Quicksilver .. .. .	220	220	900
Mercury salts .. .. .	1,870	1,609	2,996
Sweden—			
Quicksilver .. .. .	19,870	49,115	94,360
Switzerland—			
Quicksilver .. .. .	18,279	27,489	44,648
U.S.S.R. (Russia)—			
Quicksilver .. .. .	77,000	2,000	—
Yugoslavia—			
Quicksilver and amalgam ..	5,919	9,209	18,689
Mercury salts .. .. .	9,899	8,741	15,783
Algeria—			
Quicksilver .. .. .	200	1,100	(a)
Mercury salts .. .. .	3,700	400	(a)
Egypt—			
Quicksilver .. .. .	2,725	5,697	2,826
Morocco—			
Quicksilver .. .. .	2,809	3,891	2,165
Tunis—			
Quicksilver .. .. .	—	700	400
Mercury sulphide .. .. .	2,000	700	900
Cuba (total imports)—			
Quicksilver .. .. .	1,737	661	(a)
United States—			
Quicksilver .. .. .	27,054	616,649	1,714,164
Mercury salts .. .. .	3,593	2,179	1,760
Argentina—			
Quicksilver .. .. .	14,099	16,557	16,052
Mercury salts .. .. .	10,734	13,397	15,595
Brazil (total imports)—			
Quicksilver .. .. .	6,684	16,837	(a)
Chile—			
Quicksilver .. .. .	2,000	2,066	20,000
Mercury salts .. .. .	1,431	2,332	3,172
Colombia—			
Quicksilver .. .. .	5,448	8,794	(a)
Mercury salts .. .. .	9,290	9,385	(a)
Ecuador—			
Quicksilver .. .. .	465	190	(a)
Mercury salts .. .. .	787	708	(a)

(a) Information not available.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Peru—			
Quicksilver .. .. .	5,220	1,283	2,685
Mercury salts .. .. .	787	937	844
Venezuela—			
Quicksilver .. .. .	2,361	4,661	(a)
Mercury salts .. .. .	472	379	(a)
China—			
Cinnabar .. .. .	60,400	27,368	6,571
Quicksilver .. .. .	(a)	49,600	52,700
Vermilion (b) .. .. .	107,100	83,500	99,300
Formosa—			
Vermilion and cinnabar .. .. .	11,348	8,111	(a)
Quicksilver (c) .. .. .	149	—	(a)
French Indo-China—			
Cinnabar .. .. .	6,600	6,600	12,100
Quicksilver .. .. .	2,200	3,100	3,500
Vermilion .. .. .	5,000	6,600	6,800
Japan (total imports)—			
Quicksilver .. .. .	580,800	751,300	813,638
Korea—			
Quicksilver .. .. .	34,635	53,175	62,090
“Manchoukuo”—			
Vermilion .. .. .	(a)	35,601	31,601
Netherlands East Indies—			
Quicksilver .. .. .	12,946	5,390	5,470
Syria and Lebanon—			
Quicksilver .. .. .	2,150	611	1,246
Turkey—			
Quicksilver .. .. .	2,083	4,453	(a)
Mercury salts .. .. .	2,610	7,225	(a)

(a) Information not available.

(b) Imports of artificial vermilion amounted to 1,462,300 lb., 810,800 lb. and 961,500 lb. during 1931, 1932, and 1933 respectively.

(c) Including a small quantity of bismuth.

## SALT

PRODUCTION OF SALT\*  
(Long Tons)

Producing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Rock-salt .. .. .	21,553	19,567	21,596
Brine-salt .. .. .	1,876,011	2,196,632	2,342,579
Malta .. .. .	1,170	1,200	1,200
Mauritius (estimated)			
Sea-salt .. .. .	1,500	1,500	1,500
Nigeria (estimated) .. .. .			
.. .. .	400	400	400
Somaliland (exports)—			
Sea-salt .. .. .	115	2,003	2,704
South West Africa .. .. .			
.. .. .	1,076	2,069	3,094
Anglo-Egyptian Sudan .. .. .			
.. .. .	11,256	9,223	(a)
Tanganyika Territory—			
Brine salt .. .. .	4,378	} 6,607	5,753
Sea-salt .. .. .	2,359		
Uganda .. .. .			
.. .. .	1,878	(b) 700	(b) 1,492
Canada .. .. .			
.. .. .	228,224	233,283	258,401
British West Indies (exports)—			
Sea-salt—			
Bahamas .. .. .	12,250	250	2,820
Grenada .. .. .	129	—	—
Leeward Islands .. .. .	2,316	759	34
Turks and Caicos Islands .. .. .	26,929	20,625	24,566
Ceylon .. .. .			
.. .. .	44,819	17,703	8,222
Cyprus (estimated) .. .. .			
.. .. .	3,000	3,000	3,000
India (including Aden)—			
Rock-salt .. .. .	161,893	172,043	} 1,712,384
Salt .. .. .	1,677,507	1,438,818	
Palestine—			
Rock-salt .. .. .	1,239	964	864
Australia—			
Victoria (estimated) .. .. .	50,000	50,000	50,000
Western Australia .. .. .	3,938	2,771	(a)
South Australia .. .. .	68,666	60,063	58,587
Total* .. .. .	4,200,000	4,200,000	4,500,000

\* See page 348.

(a) Information not available.

(b) Excluding production from Kibero.

## PRODUCTION OF SALT (Cont.)

Producing Country and Description	1931	1932	1933
FOREIGN COUNTRIES			
Austria—			
Rock-salt .. .. .	848	799	1,058
Brine-salt .. .. .	120,675	167,876	138,447
Bulgaria—			
Rock-salt .. .. .	3,800	3,327	(a)
Sea-salt, etc. .. .. .	22,000	32,000	10,000
Czechoslovakia—			
Rock-salt .. .. .	182,023	169,221	(a)
Brine-salt .. .. .	5,152	5,390	(a)
France—			
Rock-salt and brine-salt .. .. .	1,494,330	1,407,071	1,773,569
Sea-salt .. .. .	383,191	168,000	(a)
Germany—			
Rock-salt .. .. .	2,053,925	2,082,274	(a)
Brine-salt .. .. .	483,221	477,713	(a)
Greece—			
Sea-salt (estimated) .. .. .	100,000	100,000	100,000
Italy—			
Rock-salt .. .. .	63,373	} 327,066	338,657
Brine-salt .. .. .	258,634		
Sea-salt .. .. .	746,101		
Sea-salt .. .. .	746,101	589,137	696,452
Netherlands (sales) .. .. .	55,254	59,805	63,923
Poland .. .. .	552,000	380,648	(a)
Portugal—			
Rock-salt .. .. .	24	21,000	26
Roumania—			
Rock-salt .. .. .	250,784	283,520	(a)
Spain—			
Rock-salt .. .. .	152,993	150,272	(a)
Brine-salt and sea-salt .. .. .	722,270	793,780	(a)
Switzerland .. .. .	83,674	79,187	(a)
U.S.S.R. (Russia) .. .. .	2,804,200	(a)	(a)
Yugoslavia (brine-salt) .. .. .	51,912	52,011	43,156
Algeria—			
Rock-salt and sea-salt .. .. .	58,622	58,799	78,400
Abyssinia (estimated) .. .. .	10,000	10,000	10,000
Angola (estimated) .. .. .	10,000	10,000	10,000
Belgian Congo (estimated) .. .. .	80	80	80
Canary Islands (estimated) .. .. .	2,000	2,000	2,000
Cape Verde Islands .. .. .	10,900	(a)	(a)
Egypt (exports) .. .. .	101,248	139,852	134,108

(a) Information not available.

## PRODUCTION OF SALT (Cont.)

Producing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French Morocco—			
Rock-salt .. .. .	(a)	(a)	1,557
French Somaliland (exports) .. .. .	13,582	30,306	(a)
French West Africa .. .. .	6,132	1,565	(a)
Italian East Africa (estimated) .. .. .	100,000	100,000	100,000
Tripoli (estimated) .. .. .	20,000	20,000	20,000
Tunis .. .. .	119,272	90,817	(a)
Mexico (estimated) .. .. .	80,000	80,000	80,000
Netherlands West Indies .. .. .	9,272	(a)	(a)
Panama (estimated)			
Crude salt .. .. .	50,000	50,000	50,000
United States—			
Rock-salt .. .. .	1,655,509	1,414,938	1,593,743
Brine-salt .. .. .	2,946,616	2,473,054	3,090,202
Evaporated salt .. .. .	1,967,580	1,833,412	2,106,209
Argentina .. .. .	156,855	178,277	(a)
Chile .. .. .	(a)	26,190	(a)
Colombia (estimated)—			
Rock-salt .. .. .	24,000	24,000	24,000
Brine-salt .. .. .	28,000	28,000	28,000
Sea-salt .. .. .	25,000	25,000	25,000
Ecuador—			
Rock-salt .. .. .	144	(a)	(a)
Other salt .. .. .	12,929	(a)	(a)
Guatemala .. .. .	9,000	9,000	(a)
Peru .. .. .	28,000	(a)	(a)
China, including Kwantung			
Peninsula .. .. .	2,235,000	(a)	(a)
Formosa .. .. .	195,905	103,588	(a)
French Indo-China .. .. .	245,800	226,400	(a)
Iraq (d) .. .. .	7,430	(a)	(a)
Japan (c) .. .. .	513,029	563,455	(a)
Korea .. .. .	136,000	136,000	136,000
Netherlands East Indies—			
Government production .. .. .	209,019	204,340	83,265
Native production .. .. .	31,206	28,211	(a)

(a) Information not available.

(c) Excluding production from salt beds, which, although on government beach lands, have no fixed areas. Figures refer to years ended March 31 following that stated.

(d) Years ended March 31 following that stated.

PRODUCTION OF SALT (*cont.*)

Producing Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Philippine Islands—			
Brine-salt and sea-salt .. ..	41,898	(a)	(a)
Portuguese India (estimated) .. ..	12,000	12,000	12,000
Siam (d) .. ..	193,298	(a)	(a)
Turkey .. ..	173,000	216,000	(a)
Total* .. ..	22,000,000	21,000,000	22,000,000
WORLD'S TOTAL* .. ..	26,000,000	25,000,000	26,000,000

\* Salt is also produced in many countries for which statistics are not available, *e.g.*, Union of South Africa, Gold Coast, Kenya, Brazil, Bolivia.

(a) Information not available.

(d) Years ended March 31 following that stated.



## EXPORTS OF SALT

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Refined salt .. .. .	5,095	4,287	4,988
Other salt .. .. .	257,426	294,893	253,472
Anglo-Egyptian Sudan .. .. .	663	1,153	2,971
Gold Coast .. .. .	176	178	130
Southern Rhodesia—			
Common salt and refined salt .. .. .	569	280	289
Somaliland—			
Sea-salt .. .. .	115	2,003	2,704
Tanganyika Territory .. .. .	2,963	2,428	2,762
Union of South Africa .. .. .	8,096	6,123	7,199
Canada .. .. .	5,470	5,024	4,764
British West Indies—			
Bahamas (c) .. .. .	12,250	250	2,820
Grenada .. .. .	129	—	—
Leeward Islands (b) .. .. .	2,316	759	34
Turks and Caicos Islands (c) .. .. .	26,929	20,625	24,566
Aden (including re-exports) .. .. .	272,990	308,470	259,117
British India (including re-exports)	68,148	71,141	63,985
British Malaya (including re-exports)	11,951	10,555	9,451
Cyprus .. .. .	—	100	3
Hong Kong (including re-exports) .. .. .	2,590	2,819	7,300
Australia—			
Rock-salt .. .. .	18	4	5
Refined salt ( <i>£ Australian</i> ) .. .. .	(£470)	(£609)	(£586)
Other salt .. .. .	5,703	10,201	11,143
FOREIGN COUNTRIES			
Austria .. .. .	622	2,247	10,768
Belgium-Luxemburg E.U.—			
Common salt .. .. .	2,400	725	825
Refined salt .. .. .	388	955	600

(b) Including inter-presidency trade.

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

## EXPORTS OF SALT (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Refined salt, etc. . . . .	15	11	3
Denmark—			
Refined salt, etc. . . . .	19	14	23
France . . . . .	128,501	128,480	130,913
Germany—			
Rock-salt, sea-salt, etc. . . . .	807,094	705,231	656,749
Greece . . . . .	—	49	11,293
Italy—			
Rock-salt and sea-salt . . . . .	51,337	56,611	101,554
Latvia—			
Rock-salt . . . . .	224	—	—
Common salt . . . . .	136	177	—
Netherlands—			
Rock-salt . . . . .	2	8	2
Sea-salt . . . . .	4	11	22
Refined salt and waste . . . . .	21,164	21,456	24,668
Norway . . . . .	3	2	178
Poland—			
Refined salt . . . . .	59,605	22,126	11,108
Other salt . . . . .	6,079	7,108	8,328
Portugal . . . . .	16,741	54,179	54,441
Roumania . . . . .	19,726	32,538	36,569
Spain—			
Common salt . . . . .	449,884	463,398	406,978
Sweden . . . . .	1,494	792	1,388
U.S.S.R. (Russia) . . . . .	63,284	105,460	153,055
Algeria . . . . .	38,437	38,246	49,063
Belgian Congo . . . . .	73	88	(a)
Canary Islands (including re-exports)	—	12	(a)
Cape Verde Islands . . . . .	10,862	9,775	(a)
Egypt—			
Common salt . . . . .	101,248	139,852	134,108
French West Africa—			
French Niger . . . . .	—	—	1,210
French Guinea . . . . .	8	4	8
Senegal—			
Rock-salt . . . . .	3	1	2,236
French Somaliland . . . . .	13,582	30,306	(a)
Madagascar—			
Sea-salt . . . . .	494	113	10
Morocco . . . . .	454	6	—

(a) Information not available.

## EXPORTS OF SALT (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Mozambique .. .. .	1,853	2,538	(a)
Spanish Africa (including re-exports)—			
Ceuta .. .. .	30	—	(a)
Melilla .. .. .	—	293	(a)
Tunis (including re-exports)—			
Rock-salt and sea-salt .. .. .	75,287	68,572	45,452
Mexico .. .. .	76	—	91
United States .. .. .	88,134	56,769	93,909
Netherlands West Indies .. .. .	6,252	11,232	(a)
Argentina .. .. .	178	298	1,007
Brazil .. .. .	—	12	(a)
Chile .. .. .	49	8	6
Ecuador .. .. .	467	40	(a)
China—			
Common salt .. .. .	332,690	274,464	233,177
Refined salt .. .. .	55,917	11,972	—
Formosa .. .. .	115,922	101,574	(a)
French Indo-China—			
Rock-salt and sea-salt .. .. .	32,361	28,230	68,324
Japan .. .. .	448	3	856
“Manchoukuo”—			
Common salt .. .. .	(a)	194,372	184,375
Semi-refined salt .. .. .	(a)	6,967	23,313
Refined salt .. .. .	(a)	69,418	24,747
Persia (including re-exports) (b) .. .. .	663	258	276
Philippine Islands .. .. .	45	36	(a)
Portuguese India .. .. .	8,139	(a)	(a)
Siam (including re-exports) .. .. .	69,385	83,898	82,755
Turkey .. .. .	10,349	14,763	(a)

(a) Information not available.

(b) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.

## IMPORTS OF SALT

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Refined salt .. .. .	1,208	816	645
Other salt .. .. .	68,888	50,918	48,674
Irish Free State—			
Refined salt .. .. .	2,507	2,078	1,951
Other salt .. .. .	27,545	30,365	24,662
Malta—			
Refined salt .. .. .	(£323)	(£535)	(£631)
Other salt .. .. .	239	137	44
Anglo-Egyptian Sudan .. .. .	318	187	266
Gambia .. .. .	1,704	1,317	1,196
Gold Coast—			
Refined salt .. .. .	17	12	14
Other salt .. .. .	6,475	7,612	5,934
Kenya and Uganda .. .. .	9,509	7,995	7,910
Mauritius .. .. .	1,334	494	999
Nigeria .. .. .	48,466	53,181	43,368
Nyasaland .. .. .	2,925	2,438	2,856
Northern Rhodesia .. .. .	1,831	1,306	1,427
Southern Rhodesia—			
Common salt and refined salt ..	5,120	4,906	5,767
Seychelles .. .. .	143	162	161
Sierra Leone—			
Refined salt .. .. .	1	2	1
Other salt .. .. .	4,725	4,855	4,272
South West Africa .. .. .	1,367	508	313
Tanganyika Territory .. .. .	992	624	270
Union of South Africa—			
Rock-salt .. .. .	1,872	1,378	520
Common salt and refined salt ..	1,876	1,381	1,092
Zanzibar .. .. .	905	772	1,480
Canada (total imports)—			
Salt for use of fisheries .. ..	50,148	24,819	48,606
Refined salt .. .. .	263	161	123
Other salt .. .. .	66,460	66,121	72,361
Newfoundland (total imports, year ended June 30)—			
Salt in bulk .. .. .	38,019	37,591	41,563
Refined salt .. .. .	(£2,754)	(£3,058)	(£3,016)
British Honduras .. .. .	388	541	432

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
British West Indies—			
Barbados .. .. .	2,033	2,295	(a)
Bermuda .. .. .	(£1,396)	(£3,535)	(£1,611)
Grenada .. .. .	554	498	545
Jamaica—			
Rock-salt .. .. .	3,572	196	235
Other salt .. .. .	7,144	6,436	7,091
Leeward Islands (b) .. .. .	(£403)	(£265)	(£1,661)
St. Lucia—			
Common salt .. .. .	407	333	483
Refined salt .. .. .	7	9	9
St. Vincent—			
Rock-salt .. .. .	211	263	332
Refined salt .. .. .	46	14	15
Trinidad and Tobago (total imports)—			
Rock-salt .. .. .	505	300	530
Refined salt, etc. .. .. .	2,931	2,415	2,531
British Guiana—			
Rock-salt .. .. .	803	604	1,141
Refined salt, etc. .. .. .	1,209	790	784
Aden (total imports) .. .. .	6	3	4
British Borneo—			
Brunei .. .. .	143	164	156
Sarawak .. .. .	2,621	2,754	2,730
State of North Borneo .. .. .	2,331	1,850	1,657
British India (total imports) .. .. .	528,594	552,741	366,818
British Malaya (total imports) .. .. .	60,863	53,918	52,635
Ceylon—			
Refined salt .. .. .	64	27	40
Other salt .. .. .	13	26	1,818
Cyprus—			
Refined salt .. .. .	6	4	5
Hong Kong (total imports) .. .. .	42,736	40,230	41,500
Palestine (total imports) .. .. .	114	144	438
Australia—			
Rock-salt .. .. .	1,722	4,740	5,041
Refined salt .. .. .	(£20,510)	(£16,094)	(£18,156)
Other salt .. .. .	2,899	2,701	2,558
Fiji .. .. .	624	769	659

(a) Information not available.

(b) Including inter-presidency trade.

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
New Zealand (total imports)—			
Refined salt .. .. .	751	906	772
Other salt .. .. .	29,511	33,296	35,847
Solomon Islands (c) .. .. .	9	7	(a)
Western Samoa .. .. .	(£309)	(£396)	(£460)
FOREIGN COUNTRIES			
Austria .. .. .	6,691	6,058	5,107
Belgium-Luxemburg E.U.—			
Common salt .. .. .	192,148	198,041	213,065
Refined salt .. .. .	65,293	68,737	70,617
Bulgaria—			
Rock-salt .. .. .	20,371	23,256	26,336
Sea-salt .. .. .	—	—	5,413
Czechoslovakia—			
Common salt .. .. .	151,109	124,773	124,916
Refined salt .. .. .	186	51	3
Denmark—			
Rock-salt .. .. .	7,188	5,962	7,499
Refined salt, etc. .. .. .	89,303	92,574	88,276
Estonia .. .. .	22,445	23,982	20,496
Finland (total imports)—			
Common salt .. .. .	71,796	75,623	83,170
France.. .. .	75,201	82,172	95,023
Germany—			
Rock-salt, sea-salt, etc. .. .. .	28,590	25,482	14,955
Hungary .. .. .	77,078	75,510	63,581
Iceland—			
Common salt .. .. .	64,287	86,168	(a)
Refined salt .. .. .	55	55	(a)
Italy—			
Rock-salt and sea-salt .. .. .	43,850	43,121	5,495
Latvia—			
Rock-salt .. .. .	18,130	19,510	15,381
Common salt .. .. .	11,589	9,457	9,868
Sea-salt .. .. .	1,905	935	2,441
Refined salt .. .. .	10	—	5

(a) Information not available.

(c) Years ended March 31 following.

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Lithuania—			
Crude salt .. .. .	3,101	6,181	7,620
Refined salt .. .. .	30,393	27,358	25,952
Netherlands—			
Rock-salt .. .. .	88,114	80,380	79,238
Sea-salt, etc. .. .. .	27,247	25,899	26,868
Refined salt and waste .. .. .	845	913	1,868
Norway—			
Rock-salt .. .. .	38,446	35,275	23,306
Common salt .. .. .	125,386	124,291	154,603
Poland—			
Refined salt .. .. .	1,930	1,021	570
Other salt .. .. .	25	409	596
Portugal .. .. .	39	42	37
Roumania .. .. .	16	—	—
Spain—			
Common salt .. .. .	5	4	154
Sweden—			
Common salt .. .. .	139,620	125,633	146,325
Switzerland—			
Rock-salt .. .. .	280	1	—
Other salt .. .. .	723	665	741
Yugoslavia—			
Rock-salt .. .. .	13,898	9,517	11,621
Sea-salt .. .. .	40,991	22,538	37,799
Abyssinia .. .. .	12,637	13,084	9,363
Algeria .. .. .	15,545	12,200	10,316
Belgian Congo .. .. .	11,311	11,908	11,174
Cameroon (French) .. .. .	5,252	5,291	4,283
Canary Islands (total imports) .. .. .	19	20	(a)
Egypt—			
Common salt .. .. .	75	60	76
French Equatorial Africa—			
Rock-salt .. .. .	1,718	4	8
Refined salt .. .. .		2,233	2,185
French Somaliland .. .. .	12	7	12
French Togoland .. .. .	2,885	3,094	1,889
French West Africa—			
Dahomey .. .. .	3,679	4,352	4,045
French Guinea .. .. .	2,294	1,745	2,542
French Niger .. .. .	133	280	345
French Sudan .. .. .	1,267	324	398

(a) Information not available.

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French West Africa—(cont.)			
Ivory Coast .. .. .	5,968	5,028	6,970
Mauritania .. .. .	444	—	(a)
Senegal .. .. .	3,472	2,522	3,496
Madagascar .. .. .	1,627	6,342	3,205
Morocco .. .. .	8,174	7,262	10,464
Mozambique .. .. .	815	474	(a)
Portuguese Guinea .. .. .	(a)	688	(a)
Réunion .. .. .	758	950	1,021
Spanish Africa (total imports)—			
Ceuta .. .. .	1,927	1,161	(a)
Melilla .. .. .	359	185	(a)
Cuba (total imports) .. .. .	16,111	17,846	(a)
French West Indies—			
Guadeloupe .. .. .	1,047	542	(a)
Martinique .. .. .	1,655	1,297	1,966
Mexico .. .. .	3,361	1,477	1,016
Nicaragua (total imports) .. .. .	279	273	271
Panama .. .. .	170	(a)	(a)
St. Pierre and Miquelon .. .. .	400	2,000	(a)
United States .. .. .	29,923	30,227	26,275
Argentina—			
Rock-salt .. .. .	1,158	983	995
Sea-salt .. .. .	22,100	13,600	7,800
Refined salt .. .. .	2,866	605	748
Bolivia .. .. .	427	(a)	(a)
Brazil (total imports) .. .. .	20,620	23,768	2,031
Chile—			
Common salt .. .. .	30	54	59
Refined salt .. .. .	76	8	—
Colombia .. .. .	101	30	(a)
Dutch Guiana .. .. .	503	803	522
French Guiana .. .. .	394	390	(a)
Peru .. .. .	255	—	2
Uruguay—			
Sea-salt .. .. .	47,603	28,527	43,781
French Indo-China .. .. .	61	270	183
Iraq (b) .. .. .	26	20	10
Japan (total imports) .. .. .	364,693	453,167	873,225
Korea .. .. .	167,407	217,263	189,325

(a) Information not available.

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



## IMPORTS OF SALT (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Netherlands East Indies—			
Refined salt .. .. .	382	374	265
Other salt .. .. .	8,777	5,370	6,747
Persia (total imports) (d)—			
Common salt .. .. .	4,770	3,942	2,060
Refined salt .. .. .	128	20	13
Philippine Islands .. .. .	218	198	(a)
Syria and Lebanon—			
Refined salt .. .. .	26	836	118
Other salt .. .. .	12,038	4,250	10,658
New Caledonia .. .. .	461	189	447

(a) Information not available.

(d) Years ended March 21 of year stated for 1931 and June 21 for 1932 and 1933.

**SILVER**

## PRODUCTION OF SILVER ORE

*(In terms of metal)**(Fine troy ounces)*

Producing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. ..	33,989	16,043	37,553
Bechuanaland Protectorate..	662	1,676	622
Gold Coast (estimated) ..	8,900	9,000	10,500
Kenya .. .. .	288	—	(a)
Nigeria .. .. .	251,855	85,368	117,480
Northern Rhodesia .. ..	589	339	25
Southern Rhodesia .. ..	75,960	114,555	112,434
South West Africa (d) ..	639,000	165,000	—
Tanganyika Territory .. ..	1,691	3,313	(a)
Union of South Africa .. ..	1,063,050	1,120,668	1,065,011
Canada .. .. .	20,562,247	18,347,907	15,187,950
Newfoundland .. .. .	963,695	1,333,998	1,208,280
British Guiana (estimated) ..	1,340	1,830	3,070
India .. .. .	5,923,005	6,026,737	6,080,241
Federated Malay States (estimated) .. .. .	2,600	2,400	2,600
Australia .. .. .	6,730,227	9,460,369	10,817,162
New Zealand .. .. .	434,822	562,792	430,492
Total .. .. .	37,000,000	37,000,000	35,000,000
FOREIGN COUNTRIES			
Austria .. .. .	82,626	18,785	39,062
Czechoslovakia .. .. .	1,231,778	1,059,969	(a)
France .. .. .	519,544	409,913	500,000
Germany .. .. .	5,784,589	5,993,499	(a)
Greece .. .. .	132,081	137,783	(a)
Hungary .. .. .	6,609	12,814	(a)
Italy .. .. .	438,117	394,304	(a)
Norway .. .. .	308,645	314,781	252,493

NOTE:—623,389 fine ounces of silver were recorded as produced in U.S.S.R. (Russia) during year ended September, 1928—later figures are not available.

(a) Information not available.

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

## PRODUCTION OF SILVER ORE (Cont.)

Producing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Poland.. .. .	365,104	(a)	(a)
Roumania .. .. .	114,261	186,727	326,964
Spain .. .. .	3,098,713	3,374,335	(a)
Sweden .. .. .	362,491	668,849	244,822
Yugoslavia .. .. .	1,643,800	2,018,100	3,926,000
Algeria .. .. .	258,000	58,899	(a)
Belgian Congo .. .. .	2,431,569	1,887,687	2,646,650
Morocco (French zone) .. .. .	10,674	—	(a)
do. (Spanish zone) .. .. .	18,490	10,330	6,870
Mozambique .. .. .	60	257	(a)
Tunis .. .. .	60,764	5,859	
Mexico .. .. .	86,064,457	69,303,119	68,101,062
United States.. .. .	29,856,628	22,739,681	21,956,654
Costa Rica (c) .. .. .	300	—	(a)
Guatemala (c) .. .. .	—	143,500	(a)
Honduras .. .. .	3,689,791	3,697,017	3,911,686
Nicaragua (c) .. .. .	36,485	55,375	(a)
Panama .. .. .	2,800	(a)	(a)
Salvador (c) .. .. .	580	4,822	(a)
Argentina (b) .. .. .	15,000	15,000	(a)
Bolivia (exports) .. .. .	5,772,307	4,115,232	5,469,069
Brazil .. .. .	24,199	24,078	(a)
Chile .. .. .	372,361	73,422	255,078
Colombia (estimated) .. .. .	66,000	84,000	(a)
Ecuador .. .. .	104,762	114,167	(a)
Guiana (French and Dutch) (estimated) .. .. .	4,700	4,200	(a)
Peru .. .. .	8,794,407	6,782,878	6,760,534
Venezuela (b) .. .. .	4,000	6,000	(a)
China .. .. .	186,000	104,100	(a)
Formosa .. .. .	(a)	132,900	(a)
French Indo-China .. .. .	4,500	—	—
Japan .. .. .	5,586,551	5,260,586	(a)
Korea .. .. .	390,000	620,000	(a)
Netherlands East Indies .. .. .	1,472,991	842,365	860,462
Turkey .. .. .	155,457	(a)	(a)
Philippine Islands .. .. .	97,100	160,184	184,476
Total* .. .. .	160,000,000	131,000,000	128,000,000
WORLD'S TOTAL* .. .. .	197,000,000	168,000,000	163,000,000

\* Excluding the production of U.S.S.R. (Russia), figures for which are not available.

(a) Information not available.

(b) Estimates of *United States Mint*.

(c) Imported into the United States from the country indicated.

## EXPORTS OF SILVER\*

*(In terms of metal)**(Fine troy ounces)*

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Unrefined bullion .. .. .	8,000,000	5,000,000	3,400,000
Refined bullion .. .. .	74,000,000	53,000,000	51,000,000
Southern Rhodesia—			
Bullion .. .. .	61,500	75,800	98,000
Union of South Africa—			
Concentrates .. .. .	19,000	—	—
Bullion .. .. .	1,016,000	1,086,000	426,000
Zanzibar—			
Bullion .. .. .	100	—	200
Canada—			
Ore, concentrates, etc. .. .. .	3,765,000	3,226,000	3,110,000
Bullion .. .. .	14,100,000	12,500,000	9,933,000
British India—			
Bullion—by sea .. .. .	32,500,000	31,200,000	53,600,000
do. —by land .. .. .	16,000,000	3,000,000	2,500,000
British Malaya—			
Bullion .. .. .	2,077,000	1,095,000	736,000
Hong Kong—			
Bullion .. .. .	30,000,000	12,000,000	5,000,000
Australia—			
Ores, concentrates and matte .. .. .	1,535,000	2,726,000	3,757,000
Bullion .. .. .	6,132,000	7,581,000	7,642,000
New Zealand—			
Concentrates, sweepings, etc. .. .. .	5,400	6,200	7,800
Bullion .. .. .	505,000	476,000	373,000
FOREIGN COUNTRIES			
Austria			
Bullion .. .. .	460,000	63,000	170,000
Belgium-Luxemburg E.U.—			
Bullion and scrap .. .. .	4,000,000	4,900,000	5,900,000
Beaten, rolled or drawn .. .. .	6,000	13,000	1,000
Czechoslovakia—			
Bullion .. .. .	160,000	420,000	270,000

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

## EXPORTS OF SILVER (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Bullion .. .. .	37,000	12,000	12,000
France—			
Bullion .. .. .	3,340,000	4,200,000	3,000,000
Beaten, rolled or drawn .. .. .	205,000	66,000	73,000
Germany—			
Bullion .. .. .	10,000,000	14,000,000	28,000,000
Greece—			
Bullion .. .. .	—	3,000	34,000
Hungary—			
Bullion .. .. .	2,200	8,000	60,000
Italy—			
Bullion, etc. .. .. .	406,000	138,000	18,000
Netherlands—			
Bullion and scrap .. .. .	490,000	500,000	970,000
Norway—			
Bullion .. .. .	150,000	—	—
Scrap .. .. .	66,000	74,000	64,000
Poland—			
Bullion .. .. .	317,000	76,000	52,000
Roumania—			
Bullion .. .. .	64,000	90,000	113,000
Spain—			
Bullion .. .. .	1,540,000	2,240,000	1,900,000
Sweden—			
Bullion .. .. .	119,000	90,000	180,000
Switzerland—			
Bullion .. .. .	554,000	955,000	960,000
U.S.S.R. (Russia) .. .. .	(d)	(d)	(d)
Yugoslavia—			
Bullion .. .. .	2,000	1,000	—
Egypt—			
Bullion and scrap .. .. .	33,000	265,000	70,000
Cuba—			
Bullion .. .. .	—	75,000	(a)
Honduras (e)—			
Bullion .. .. .	3,436,000	4,039,000	3,831,000
Mexico—			
Bullion .. .. .	80,200,000	40,600,000	36,000,000
Nicaragua—			
Concentrates .. .. .	10,000	28,000	47,000

(d) Statistics of the exports of silver from the U.S.S.R. (Russia) are not published.

(e) Years ended July 31 of year stated.

## EXPORTS OF SILVER (Cont.)

Exporting Country and Description.	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
United States—			
Ore and base bullion .. .. .	8,000	19,000	500,000
Refined bullion .. .. .	82,905,000	42,287,000	43,000,000
Argentina—			
Bullion .. .. .	—	26,000	—
Bolivia—			
Ores .. .. .	5,772,000	4,115,000	5,469,000
Chile—			
Ore (excluding mixed ore) ..	6,000	13,000	(a)
Bullion .. .. .	500	120,000	(a)
Colombia—			
Bullion .. .. .	24,000	—	(a)
Peru—			
Ores, concentrates, etc. .. ..	1,396,000	1,484,000	1,547,000
Bullion .. .. .	7,519,000	2,035,000	6,050,000
China—			
Bullion .. .. .	13,200,000	9,900,000	55,000,000
Iraq (c)—			
Bullion, etc. .. .. .	8,000	29,000	10,000
Japan—			
Bullion .. .. .	2,583,000	7,728,000	5,645,000
Korea—			
Bullion .. .. .	69,000	86,000	260,000
“Manchoukuo”—			
Bullion .. .. .	(a)	160,000	2,000
Netherlands East Indies—			
Bullion and scrap .. .. .	1,163,000	994,000	842,000
Persia (b)—			
Bullion .. .. .	1,790,000	253,000	130

(a) Information not available.

(b) Years ended March 21 of the year stated for 1931 and June 21 for 1932 and 1933.

(c) Years ended March 31 of the year following.

## IMPORTS OF SILVER\*

*(In terms of metal)**(Fine troy ounces)*

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	1,000,000	1,760,000	1,970,000
Unrefined bullion .. .. .	23,000,000	26,000,000	51,400,000
Refined bullion .. .. .	71,272,000	48,000,000	64,800,000
Gold Coast—			
Bullion .. .. .	138,000	12,000	60
Kenya and Uganda—			
Bullion .. .. .	3,400	200	—
Nigeria—			
Bullion .. .. .	41,000	70	700
Sierra Leone—			
Bullion .. .. .	800	400	800
Union of South Africa—			
Bullion .. .. .	800	300	400
Zanzibar—			
Bullion .. .. .	50	—	—
Canada—			
Bullion .. .. .	1,500,000	1,800,000	1,800,000
British Guiana—			
Bullion .. .. .	1,700	60	—
Trinidad and Tobago—			
Bullion .. .. .	13,000	39,000	15,000
Ceylon—			
Bullion .. .. .	436,000	135,000	2,000
Cyprus—			
Bullion .. .. .	16,000	5,200	6,000
British India—			
Bullion—by sea .. .. .	69,800,000	4,935,000	3,185,000
do. —by land .. .. .	4,000,000	12,000,000	7,000,000
British Malaya—			
Bullion .. .. .	2,180,000	1,156,000	730,000
Hong Kong—			
Bullion .. .. .	28,000,000	28,000,000	12,000,000
Australia (years ended June 30)—			
Matte .. .. .	1,000	3,000	—
Bullion .. .. .	23,000	26,000	105,000
New Zealand—			
Bullion .. .. .	5,300	3,500	3,600

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

## IMPORTS OF SILVER (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES			
Austria—			
Bullion .. .. .	1,570,000	537,000	780,000
Belgium-Luxemburg E.U.—			
Bullion and scrap .. ..	30,000	49,000	13,200,000
Beaten, rolled or drawn ..	16,000	13,000	28,000
Bulgaria—			
Bullion, etc. .. ..	12,000	7,000	14,000
Czechoslovakia—			
Bullion .. .. .	1,000,000	2,997,000	860,000
Denmark—			
Bullion, etc. .. ..	1,880,000	1,336,000	1,500,000
Finland—			
Bullion, etc. .. ..	384,000	230,000	224,000
France—			
Bullion .. .. .	3,700,000	5,300,000	7,200,000
Beaten, rolled or drawn	216,000	74,000	120,000
Germany—			
Ore (c) .. .. .	(£1,400)	(£70)	(£500)
Bullion .. .. .	30,000,000	32,000,000	34,500,000
Scrap .. .. .	(£164,000)	(£186,000)	(£96,000)
Greece—			
Bullion .. .. .	400	100	40
Hungary—			
Bullion .. .. .	308,000	94,000	350,000
Beaten, rolled or drawn ..	55,000	11,000	25,000
Italy—			
Bullion, etc. .. ..	4,812,000	4,100,000	4,900,000
Latvia—			
Bullion and wire .. ..	176,000	104,000	52,000
Lithuania—			
Bullion, etc. .. ..	50,000	18,000	44,000
Netherlands—			
Bullion and scrap .. ..	1,630,000	1,300,000	1,900,000
Norway—			
Bullion .. .. .	351,000	265,000	300,000
Beaten, rolled or drawn ..	527,000	295,000	420,000
Poland—			
Bullion .. .. .	523,000	191,000	352,000
Portugal—			
Bullion .. .. .	250,000	1,518,000	1,444,000
Roumania—			
Bullion, etc. .. ..	13,000	1,000	400

(a) Information not available.

(c) Value of ores; silver content not known.



## IMPORTS OF SILVER (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Spain—			
Bullion .. .. .	200,000	121,000	130,000
Sweden—			
Bullion .. .. .	1,496,000	934,000	780,000
Switzerland—			
Bullion .. .. .	2,377,000	1,434,000	1,520,000
Yugoslavia—			
Bullion .. .. .	5,000	6,000	3,000
Algeria—			
Bullion, etc. .. .. .	35,000	21,000	(a)
Egypt—			
Bullion and scrap .. .. .	450,000	11,000	60,000
Morocco—			
Bullion, etc. .. .. .	11,000	5,000	4,000
Beaten, rolled or drawn .. .. .	1,300	15,000	22,000
Tunis—			
Beaten, rolled or drawn .. .. .	82,000	54,000	50,000
United States—			
Ore and base bullion .. .. .	41,858,000	24,426,000	21,000,000
Refined bullion .. .. .	39,692,000	34,877,000	141,000,000
Argentina—			
Bullion .. .. .	140,000	15,000	31,000
Brazil—			
Bullion .. .. .	13,000	9,000	(a)
Chile—			
Bullion .. .. .	6,000	—	—
Colombia—			
Bullion .. .. .	16,000	520,000	(a)
Dutch Guiana—			
Bullion .. .. .	6,400	3,500	2,000
China—			
Bullion .. .. .	77,700,000	67,100,000	52,000,000
French Indo-China—			
Bullion, etc. .. .. .	208,000	125,000	50,000
Beaten, rolled or drawn .. .. .	200	50	400
Iraq (b)—			
Bullion, etc. .. .. .	20,000	21,000	17,000
Japan—			
Bullion .. .. .	3,889,000	128,000	90,000

(a) Information not available.

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

IMPORTS OF SILVER (*Cont.*)

Importing Country and Description	1931	1932	1933
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Korea—			
Bullion .. .. .	93,000	98,000	22,000
“ Manchoukuo ”—			
Bullion .. .. .	(a)	260,000	890,000
Netherlands East Indies—			
Bullion and scrap .. .. .	527,000	291,000	304,000
Siam—			
Bullion .. .. .	—	125,000	—
Syria and Lebanon—			
Bullion .. .. .	150,000	56,000	57,000
Turkey—			
Bullion, etc. .. .. .	2,400	1,900	(a)

(a) Information not available.

**STRONTIUM MINERALS**

PRODUCTION OF STRONTIUM MINERALS  
(Long tons)

Producing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom— Celestite .. .. .	4,052	6,852	3,862
FOREIGN COUNTRIES			
Germany (Prussia)— Strontianite .. .. .	128	64	148
Tunis— Strontium minerals .. .. .	500	20	—

EXPORTS OF STRONTIUM MINERALS, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom— Celestite .. .. .	1,206	2,830	1,350
FOREIGN COUNTRIES			
France— Strontium compounds .. .. .	20	2	3
Germany (b)— Strontianite and witherite .. .. .	378	156	255
Strontium compounds .. .. .	39	19	31

(b) Celestite recorded with barytes.

## IMPORTS OF STRONTIUM MINERALS, ETC.

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

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES			
Czechoslovakia—			
Strontium nitrate .. .. .	2	1	2
France—			
Strontium compounds .. .. .	12	7	19
Italy—			
Strontium compounds (b) .. .	6	7	—
Poland—			
Strontianite and celestite.. ..	2	(10 cwt.)	—
United States—			
Strontianite and celestite.. ..	(2 cwt.)	5	1,083
Strontium compounds .. .. .	778	210	243
Chile—			
Strontium compounds .. .. .	(3 cwt.)	(1 cwt.)	(1 cwt.)
Colombia—			
Strontium compounds .. .. .	(5 cwt.)	(3 cwt.)	(a)
Peru—			
Strontium compounds .. .. .	(7 cwt.)	51	(a)
Turkey—			
Strontium compounds .. .. .	(6 cwt.)	(8 cwt.)	(a)

*(a)* Information not available.*(b)* Excluding strontium nitrate.

## SULPHUR

## PRODUCTION OF SULPHUR\*

(Long tons)

Producing Country and Description.	1931	1932	1933	Estimated Sulphur Content.		
				1931	1932	1933
<b>BRITISH EMPIRE</b>						
United Kingdom and Irish Free State— Spent oxide (b) ..	124,200	129,000	123,700	60,400	62,300	59,400
Southern Rhodesia— Sulphur .. ..	100	—	—	(a)	—	—
Canada— Smelter gas (e) ..				16,371	24,300	(a)
<b>FOREIGN COUNTRIES</b>						
France— Sulphur rock ..	504	(a)	(a)	50	(a)	(a)
Germany— Recovered from gases				12,000	12,000	12,000
Greece— Sulphur rock ..	5,312	—	(a)	1,222	—	(a)
Refined sulphur (c)	368	300	(a)	364	297	(a)
Italy— Sulphur ore ..	2,145,119	2,127,000	2,283,381	(a)	(a)	(a)
Crude sulphur (c)— Fused .. ..	347,372	344,449	370,675	(a)	(a)	(a)
Ground .. ..	19,502	25,119	24,569	(a)	(a)	(a)
Norway— Sulphur recovered from pyrites ..				8,403	60,000	(a)

(a) Information not available.

(b) Consumed by the sulphur acid industry.

(c) Derived from sulphur rock above.

(e) Estimated sulphur content of gas used in acid making.

\* See also Pyrites (page 335).

PRODUCTION OF SULPHUR (*Cont.*)

Producing Country and Description	1931	1932	1933	Estimated Sulphur Content		
				1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )						
Spain—						
Sulphur rock ..	64,284	52,423	(a)	12,400	9,900	(a)
Refined sulphur (d)	21,155	17,151	(a)	(a)	(a)	(a)
Sulphur recovered from pyrites ..				—	4,500	(a)
United States—						
Crude sulphur ..	2,128,930	890,440	1,406,063	(a)	(a)	(a)
Sulphur ore ..	(a)	100	—	(a)	45	(a)
Slurry (f) ..				2,500	2,500	(a)
Smelter gas (g) ..				220,000	220,000	(a)
Chile—						
Sulphur .. ..	5,018	11,770	12,557	(a)	(a)	(a)
Ecuador—						
Sulphur rock ..	150	—	—	(a)	—	—
China—						
Sulphur .. ..	9,900	(a)	(a)	(a)	(a)	(a)
Formosa—						
Sulphur .. ..	779	(a)	(a)	(a)	(a)	(a)
Japan—						
Sulphur rock ..	2,195	2,591	(a)	1,000	1,200	(a)
Refined sulphur ..	60,528	83,195	102,412	(a)	(a)	(a)
Netherlands East Indies—						
Sulphur .. ..	1,788	7,517	11,036	1,786	7,509	11,024
Turkey—						
Sulphur .. ..	73	25	148	(a)	(a)	(a)

(a) Information not available.

(d) Derived partly from sulphur rock above and partly from crude sulphur imported from America and Italy as follows:—

1931 .. ..	8,121 tons
1932 .. ..	9,721 „

(f) The result of the purification of manufactured fuel gases.

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

EXPORTS OF SULPHUR  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	2,968	558	775
Union of South Africa .. ..	9	4	5
British Malaya (including re-exports)	26	23	45
Hong Kong (including re-exports)	568	741	519
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	27	12	16
Belgium-Luxemburg E.U. .. ..	2,385	1,877	2,740
Czechoslovakia .. .. .	5	9	9
France—			
Rock .. .. .	101	894	1,414
Crude .. .. .	3,353	2,208	2,209
Refined lump .. .. .	5,472	5,671	1,310
Flowers of sulphur .. .. .	14,871	13,566	11,870
Precipitated sulphur .. .. .	1,075	851	1,693
Germany—			
Sulphur, etc. .. .. .	56,766	21,207	29,002
Italy—			
Rock .. .. .	4	—	271
Crude lump .. .. .	177,616	220,760	137,436
Crude ground .. .. .	2,147	3,654	10,444
Refined lump .. .. .	22,541	13,147	19,895
Refined ground .. .. .	30,888	27,076	36,094
Flowers of sulphur .. .. .	3,524	4,776	13,671
Latvia .. .. .	565	—	—
Netherlands .. .. .	16	61	25
Norway .. .. .	6,393	46,116	58,951
Spain .. .. .	309	826	900
Sweden .. .. .	3	3	76
Algeria—			
Refined .. .. .	68	3	} 72
Flowers of sulphur .. .. .	80	43	
United States—			
Crude .. .. .	407,586	352,610	522,515
Refined and flowers of sulphur .. ..	12,142	7,270	8,763
Chile—			
Refined and flowers of sulphur .. ..	4,091	9,407	14,061
Formosa .. .. .	501	359	(a)
Japan .. .. .	13,960	25,587	31,607
Netherlands East Indies .. .. .	90	5,493	3,985

(a) Information not available.

## IMPORTS OF SULPHUR

(Less Re-exports)

(Long tons)

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	60,172	70,130	69,574
Irish Free State .. .. .	146	111	134
Malta—			
Flowers of sulphur .. .. .	(£752)	(£900)	(£718)
Mauritius .. .. .	458	596	702
Northern Rhodesia .. .. .	146	1	—
Southern Rhodesia—			
Flowers of sulphur .. .. .	2	1	—
South West Africa .. .. .	12	12	11
Union of South Africa (total im- ports)—			
Rock-sulphur .. .. .	6,650	7,760	12,285
Flowers of sulphur .. .. .	5,068	5,237	2,822
Trinidad and Tobago .. .. .	78	61	75
British Guiana .. .. .	421	39	38
Canada .. .. .	110,886	93,745	125,723
Newfoundland (years ended June 30)	6,787	7,007	4,231
British India (total imports) ..	15,728	16,192	20,212
British Malaya (total imports) ..	190	180	281
Ceylon .. .. .	96	123	101
Cyprus.. .. .	114	154	107
Hong Kong (total imports) ..	951	678	604
Palestine (total imports) ..	102	101	151
Australia .. .. .	29,008	77,921	69,078
Fiji .. .. .	3	1	8
New Zealand .. .. .	17,130	43,382	28,005
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	9,517	6,904	9,957
Belgium-Luxemburg E.U. .. .. .	9,001	8,909	11,205
Bulgaria .. .. .	238	286	154
Czechoslovakia—			
Sulphur .. .. .	7,122	7,713	8,303
Flowers of sulphur .. .. .	111	53	46
Denmark .. .. .	429	499	675



IMPORTS OF SULPHUR (*Cont.*)

Importing Country and Description	1931	1932	1933
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Estonia—			
Crude .. .. .	7,065	6,907	10,068
Refined .. .. .	9	16	18
Finland (total imports) .. ..	59,800	77,890	67,376
France—			
Rock .. .. .	10,188	45,167	115,629
Crude .. .. .	173,398	102,206	140,638
Refined lump .. .. .	4,367	241	8,241
Flowers of sulphur .. .. .	139	1	1,487
Precipitated .. .. .	93	57	109
Germany—			
Sulphur, etc. .. .. .	76,920	48,211	45,591
Greece .. .. .	13,612	11,309	11,128
Hungary .. .. .	436	525	(a)
Italy .. .. .	—	5	25
Latvia—			
Crude .. .. .	400	1,810	2,100
Refined .. .. .	12	26	29
Flowers of sulphur .. .. .	12	30	34
Lithuania—			
Crude .. .. .	17,162	18,351	25,174
Refined .. .. .	30	27	16
Netherlands .. .. .	1,341	1,897	2,104
Norway .. .. .	6,347	11,137	7,822
Poland—			
Crude .. .. .	220	26	603
Refined .. .. .	1,472	1,506	1,204
Flowers of sulphur .. .. .	183	46	57
Portugal—			
Crude .. .. .	7,058	6,392	13,441
Flowers of sulphur .. .. .	3,030	1,681	1,598
Roumania—			
Crude .. .. .	629	949	1,399
Refined and flowers of sulphur .. ..	432	657	858
Spain—			
Crude, unground .. .. .	9,653	10,097	2,622
Refined, unground .. .. .	5	75	624
do. ground, and flowers of sulphur .. .. .	1,103	179	708
Sweden .. .. .	59,371	59,119	70,523
Switzerland—			
Crude and ground .. .. .	3,724	2,308	3,092
Flowers of sulphur .. .. .	420	288	339

(a) Information not available.

## IMPORTS OF SULPHUR (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
U.S.S.R. (Russia)—			
Crude .. .. .	15,442	856	401
Refined .. .. .	6,447	2,084	2,629
Flowers of sulphur .. .. .	104	25	—
Yugoslavia—			
Crude .. .. .	812	897	1,000
Refined and flowers of sulphur .. .. .	1,376	784	1,045
Algeria—			
Rock .. .. .	2,449	9,623	} 40,697
Crude .. .. .	5,988	14,819	
Refined .. .. .	458	386	
Flowers of sulphur .. .. .	8,643	8,801	
Precipitated .. .. .	583	699	
Angola .. .. .	23	129	2
Belgian Congo .. .. .	4,042	17	533
Canary Islands (total imports)—			
Crude .. .. .	147	577	(a)
Refined and flowers of sulphur .. .. .	3,533	1,780	(a)
Egypt .. .. .	1,675	1,143	1,765
Madagascar .. .. .	26	47	51
Morocco .. .. .	668	636	865
Mozambique .. .. .	222	296	(a)
Spanish Africa (total imports)—			
Ceuta .. .. .	1	3	(a)
Melilla— .. .. .	13	16	(a)
Tunis—			
Crude .. .. .	4,270	10,229	7,000
Refined .. .. .	2,246	1,838	1,686
Cuba (total imports) .. .. .	2	24	(a)
Mexico .. .. .	8,389	—	5,316
Panama .. .. .	13	(a)	(a)
United States—			
Sulphur ore and sulphur .. .. .	189	177	4,960
Argentina—			
Crude .. .. .	12,234	14,919	20,350
Refined .. .. .	205	144	65
Bolivia .. .. .	16	(a)	(a)
Brazil (total imports) .. .. .	3,702	7,581	(a)
Chile .. .. .	36	1	1

(a) Information not available.

## IMPORTING OF SULPHUR (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Colombia—			
Flowers of sulphur .. .. .	126	119	(a)
Ecuador .. .. .	113	110	(a)
Peru .. .. .	208	206	258
Uruguay .. .. .	2,406	2,181	2,455
Venezuela .. .. .	29	38	(a)
China .. .. .	3,896	2,114	4,239
French Indo-China .. .. .	127	100	139
“ Manchoukuo ” .. .. .	(a)	2,951	2,787
Netherlands East Indies .. .. .	14,482	5,164	2,626
Syria and Lebanon .. .. .	136	100	102
Turkey .. .. .	3,070	4,537	(a)

(a) Information not available.

## TALC

## PRODUCTION OF TALC

(Long tons).

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE.</b>			
United Kingdom .. .. .	160	258	166
Union of South Africa .. .. .	210	265	276
Canada (sales) (e) .. .. .	10,568	10,806	13,554
India .. .. .	5,135	6,512	17,048
Australia .. .. .	846	1,347	1,769
<b>FOREIGN COUNTRIES</b>			
Austria (estimated) .. .. .	25,000	25,000	25,000
Finland .. .. .	3,000	1,599	(a)
France .. .. .	82,600	(a)	(a)
Germany (Bavaria) .. .. .	4,142	3,147	(a)
Greece .. .. .	476	608	(a)
Italy .. .. .	37,800	31,860	33,908
Norway .. .. .	11,212	13,322	19,571
Roumania (d) .. .. .	3,020	1,770	(a)
Spain (b) .. .. .	4,488	4,577	(a)
Sweden .. .. .	4,662	4,454	(a)
Egypt .. .. .	—	228	2,491
Morocco (French) (exports) .. .. .	682	824	518
United States (sales) (c) .. .. .	146,207	110,019	143,352
Uruguay (exports) .. .. .	1,761	2,584	1,250
" Manchoukuo " .. .. .	42,213	43,616	(a)

NOTE :—5,480 long tons of talc were recorded as produced in Russia during year ended September 1928—later figures are not available.

(a) Information not available.

(b) In addition the following were quarried : 2,038 and 1,936 cubic yards in 1931 and 1932 respectively.

(c) Excluding steatite, figures of which are not available for publication.

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

(e) Excluding soapstone, which is only recorded by value and was as follows :—

1931 .. .. .	£7,300
1932 .. .. .	£11,700
1933 .. .. .	£9,700

## EXPORTS OF TALC

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	116	68	183
Canada .. .. .	7,010	6,970	9,575
FOREIGN COUNTRIES			
Austria .. .. .	16,733	17,016	20,525
Belgium-Luxemburg E.U. .. ..	89	81	82
Czechoslovakia .. .. .	124	58	120
Finland .. .. .	233	55	114
France .. .. .	23,358	18,976	19,931
Germany .. .. .	1,482	592	298
Greece .. .. .	34	(a)	(a)
Italy .. .. .	19,328	17,066	16,108
Norway .. .. .	8,540	9,530	15,492
Roumania .. .. .	105	452	511
Morocco .. .. .	682	824	518
United States .. .. .	(a)	(a)	3,532
Uruguay .. .. .	1,761	2,584	1,250
" Manchoukuo " .. .. .	(a)	8,338	53,418

(a) Information not available.

## IMPORTS OF TALC

(Less Re-exports)

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	13,558	14,824	18,785
Seychelles .. .. .	—	—	2
Canada .. .. .	2,384	1,697	1,919
Australia .. .. .	360	332	403
FOREIGN COUNTRIES			
Austria .. .. .	100	88	45
Belgium-Luxemburg E.U. .. .. .	3,322	3,010	3,323
Czechoslovakia .. .. .	2,137	4,069	3,503
Denmark .. .. .	1,253	1,088	1,747
Estonia .. .. .	28	120	75
Finland (total imports) .. .. .	917	1,226	1,005
France .. .. .	4,771	3,458	4,523
Germany .. .. .	20,364	17,760	23,120
Latvia .. .. .	42	87	123
Lithuania .. .. .	33	28	45
Poland .. .. .	1,653	1,628	2,525
Roumania .. .. .	324	221	506
Yugoslavia .. .. .	638	524	645
Algeria .. .. .	75	109	(a)
Egypt .. .. .	1,387	1,658	1,784
Tunis .. .. .	522	660	364
Mexico .. .. .	191	—	327
Panama .. .. .	23	(a)	(a)
United States (including manu- factures) .. .. .	21,025	17,837	19,594
Argentina .. .. .	2,059	1,481	1,964
Chile .. .. .	128	36	6
Colombia .. .. .	132	157	(a)
Peru .. .. .	80	67	101
Venezuela .. .. .	23	20	(a)
Formosa .. .. .	11	2	(a)
French Indo-China .. .. .	8	28	35
Japan (total imports) .. .. .	40,750	34,921	58,409
Syria and Lebanon .. .. .	38	37	35
Turkey .. .. .	13	24	(a)

(a) Information not available.

## PRODUCTION OF TIN ORE

(In terms of metal)

(Long tons)

Producing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	598	1,337	1,542
Nigeria .. .. .	7,056	4,320	3,755
Southern Rhodesia .. .. .	7	4	11
South West Africa .. .. .	82	65	144
Swaziland .. .. .	54	59	71
Tanganyika Territory .. .. .	14	50	49
Uganda .. .. .	108	261	272
Union of South Africa .. .. .	408	540	539
India .. .. .	2,979	3,168	3,472
Federated Malay States (shipments)	53,457	28,363	23,925
Unfederated Malay States .. .. .	1,436	1,341	923
Straits Settlements .. .. .	16	38	57
Australia .. .. .	1,750	2,138	2,810
Total ..	68,000	41,700	37,600
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia .. .. .	7	—	(a)
Portugal (estimated) .. .. .	390	400	500
Spain .. .. .	143	78	(a)
Belgian Congo .. .. .	195	689	1,896
Mexico .. .. .	761	740	123
United States .. .. .	4	(8 cwt.)	2
Bolivia .. .. .	(b) 31,138	21,100	17,000
China .. .. .	6,191	7,000	7,600
French Indo-China .. .. .	874	1,000	1,038
Japan .. .. .	1,577	1,825	(a)
Netherlands East Indies .. .. .	27,374	16,789	12,608
Siam .. .. .	12,495	9,276	10,300
Total ..	81,000	59,000	53,000
<b>WORLD'S TOTAL .. .. .</b>	<b>149,000</b>	<b>101,000</b>	<b>91,000</b>

NOTE.—The metal content of the ores has been calculated on the following percentages—South-West Africa 70, Swaziland 70, Uganda 70, India 70, Belgian Congo 70, Japan 70, Siam 72.

(a) Information not available.

(b) Exports.

## SMELTER PRODUCTION OF TIN

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
United Kingdom (estimated) ..	35,600	28,500	18,200
British Malaya (c) .. ..	87,514	49,945	46,942
Australia .. .. .	1,690	1,958	2,360
Total ..	125,000	80,000	68,000
FOREIGN COUNTRIES			
Belgium (estimated) .. ..	200	800	2,700
France .. .. .	713	185	600
Germany .. .. .	3,689	1,871	(a)
Italy .. .. .	8	7	7
Netherlands (estimated) .. ..	3,000	3,500	5,000
Mexico .. .. .	12	(a)	(a)
Portugal .. .. .	61	74	84
Norway .. .. .	196	242	160
China .. .. .	5,891	7,890	7,600
French Indo-China .. .. .	67	—	—
Japan .. .. .	999	987	(a)
Netherlands East Indies (exports) ..	12,788	8,091	8,792
Total ..	28,000	24,000	28,000
WORLD'S TOTAL	153,000	104,000	96,000

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

1931 ..	17,679 long tons.
1932 ..	13,170 " "
1933 ..	19,732 " "

(a) Information not available.

(c) Exports plus difference between "carry-over" at end and beginning of the year.



EXPORTS OF TIN  
(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore and concentrates .. ..	79	182	1
Blocks, ingots, bars and slabs .. ..	12,087	12,839	29,232
Soft solder .. .. .	2,690	2,449	2,388
Tin-foil .. .. .	185	164	251
Nigeria—			
Ore .. .. .	10,794	5,967	5,216
Southern Rhodesia—			
Ore .. .. .	8	5	7
South West Africa—			
Ore .. .. .	121	112	216
Tanganyika—			
Ore and concentrates .. ..	21	94	80
Uganda—			
Ore .. .. .	170	335	428
Union of South Africa—			
Ore and concentrates .. ..	641	943	905
British India—			
Ore (d) .. .. .	2,376	2,420	2,945
Blocks, ingots, bars and slabs .. ..	779	7,184	878
British Malaya (including re-exports)—			
Ingots .. .. .	83,704	47,908	53,931
Hong Kong (including re-exports)—			
Slab and ingot .. .. .	6,927	7,487	7,880
Australia—			
Ore, dross etc. (Sn content) .. ..	17	101	139
Ingots .. .. .	888	756	1,081
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude, scrap and alloys .. ..	107	101	187
Belgium-Luxemburg E.U.—			
Ore .. .. .	58	66	23
Ingots, pigs, scrap, etc. .. ..	2,615	3,546	2,385
Sheets, wire, etc. .. .. .	184	132	105

(d) Excluding tin-tungsten ore.

## EXPORTS OF TIN (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Ingots, scrap and alloys .. ..	93	122	130
Denmark—			
Crude and scrap .. .. .	37	35	62
France—			
Ore .. .. .	455	330	432
Scrap .. .. .	617	396	299
Pigs, bars, etc. .. .. .	852	383	259
do. (alloys) .. .. .	383	275	298
Sheets and wire .. .. .	57	52	49
Germany—			
Crude, scrap and alloys .. ..	4,923	3,023	3,534
Sheets and wire .. .. .	70	45	48
Tin-foil .. .. .	218	121	98
Hungary—			
Crude tin .. .. .	18	—	—
Italy—			
Ingots, bars, scrap and alloys ..	96	92	64
Sheets, wire etc. and alloys ..	2	1	1
Netherlands—			
Blocks .. .. .	2,799	3,038	4,411
Sheets, wire, etc. .. .. .	96	71	69
Norway—			
Ingots and bars .. .. .	93	112	98
Poland .. .. .	2	1	—
Portugal—			
Ore .. .. .	576	503	528
Spain—			
Ore .. .. .	33	106	260
Ingots and bars .. .. .	53	71	77
Sweden—			
Crude and scrap .. .. .	47	86	54
Switzerland—			
Pigs, bars and slabs .. .. .	209	111	129
Sheets, wire, etc., and alloys ..	75	—	1
Tin-foil .. .. .	271	147	94
Scrap .. .. .	19	45	71
Algeria—			
Ingots, scrap and alloys .. ..	7	25	(a)
Belgian Congo—			
Ore .. .. .	127	1,088	2,366
Cameroon (French)—			
Ore .. .. .	—	—	75
Mexico—			
Concentrates .. .. .	(b)751	1,085	121

(a) Information not available.

(b) Sn content.

EXPORTS OF TIN (*Cont.*)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Argentina—			
Ore .. .. .	—	10	1
Bolivia—			
Ores, concentrates, etc. ( <i>Sn content</i> )	31,138	20,588	14,702
China—			
Ingots and slabs .. .. .	3,478	2,009	9,459
Tin-foil .. .. .	13	19	17
French Indo-China—			
Ore .. .. .	1,767	2,007	1,925
Ingots and scrap .. .. .	79	1	716
Japan—			
Tin-foil .. .. .	74	69	26
Netherlands East Indies—			
Ore .. .. .	21,146	10,276	7,878
Ingots .. .. .	12,788	8,091	8,792
Siam (including re-exports)—			
Ore .. .. .	17,219	12,756	14,263

## IMPORTS OF TIN

*(Less Re-exports)*

(Long tons)

Importing Country and Description.	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Ore and concentrates .. ..	59,868	47,211	27,469
Blocks, ingots, bars and slabs ..	6,978	2,138	2,559
Soft solder .. .. .	23	16	16
Tin-foil .. .. .	204	86	38
Irish Free State .. .. .			
Ingots, bars, slabs, etc. .. ..	12	17	23
Soft solder .. .. .	112	125	125
Kenya and Uganda—			
Ore .. .. .	(b) 2	(b) 3	3
Bar, plate, or sheet .. .. .	325	889	1,050
Mauritius—			
Ingots and solder .. .. .	15	6	67
Southern Rhodesia (total imports)—			
Blocks, ingots and bars .. ..	18	29	40
South West Africa—			
Bar, sheet, etc. .. .. .	2	2	2
Union of South Africa (total imports)—			
Blocks, ingots, bars, plates and sheets .. .. .	279	123	270
Tin-foil .. .. .	12	13	18
Canada—			
Blocks, pigs and bars .. .. .	1,842	1,406	1,265
Tin-foil .. .. .	12	3	4
British India (total imports)—			
Blocks, ingots, bars and slabs ..	2,098	2,464	2,083
Wrought tin .. .. .	5	38	18
Tin (government stores) .. ..	188	77	123
British Malaya (total imports)—			
Ore .. .. .	31,369	28,454	23,142
Ceylon—			
Ingots, slabs, etc. .. .. .	34	43	40
Plates and sheets .. .. .	(a)	1,091	10
Tin solder .. .. .	53	28	23
Cyprus—			
Ingots and bars .. .. .	10	3	6

(a) Information not available.

(b) Excess of re-exports.

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>			
Hong Kong (total imports)—			
Slabs and ingots .. .. .	7,969	7,308	7,826
Australia—			
Ingots .. .. .	59	383	1
New Zealand—			
Ingots, etc. .. .. .	152	140	150
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude, scrap and alloys .. .. .	940	641	530
Belgium-Luxemburg E.U.—			
Ore .. .. .	297	1,161	3,879
Ingots, pigs, scrap, etc. .. .. .	3,309	3,624	2,385
Sheets, wire, etc. .. .. .	71	33	61
Bulgaria—			
Crude, bars, sheets, scrap, etc. .. .. .	174	177	97
Czechoslovakia—			
Crude, scrap, and alloys .. .. .	1,495	1,481	1,283
Tin-foil .. .. .	9	9	2
Denmark—			
Crude and scrap .. .. .	539	370	426
Sheets, wire, etc. .. .. .	23	7	4
Tin-foil .. .. .	50	54	60
Estonia—			
Crude and scrap .. .. .	33	24	18
Finland (total imports)—			
Ingots, sheets and scrap .. .. .	170	167	157
Tin solder .. .. .	13	10	12
France—			
Ore .. .. .	914	355	2,429
Scrap .. .. .	127	109	210
Pigs, bars, etc. .. .. .	10,685	8,829	10,044
do. (alloyed with antimony) .. .. .	357	157	181
Sheets and wire .. .. .	161	110	129
Germany—			
Ore .. .. .	6,354	1,829	424
Crude, scrap and alloys .. .. .	13,300	11,919	14,637
Sheets and wire .. .. .	85	5	3
Tin-foil .. .. .	25	9	1
Greece .. .. .	171	185	160

## IMPORTS OF TIN (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Crude and scrap .. .. .	409	275	323
Foil .. . . .	20	14	16
Italy—			
Ingots, bars, scrap and alloys ..	3,540	3,734	4,040
Tubes, wire and alloys .. .. .	10	10	11
Latvia—			
Ingots and scrap .. .. .	53	44	54
Lithuania—			
Ingots and scrap .. .. .	8	17	20
Netherlands—			
Ore .. .. .	4,868	6,709	9,324
Blocks .. .. .	920	780	797
Sheets, wire, etc. .. .. .	77	148	202
Norway—			
Crude .. .. .	249	310	309
Bars, sheets, filings, etc. .. ..	199	109	100
Poland—			
Ingots, bars and sheets .. .. .	596	571	582
Portugal—			
Sheets, wire, etc. .. .. .	336	222	174
Roumania—			
Ingots, bars and scrap .. .. .	239	305	235
Sheets, plates, tubes, wire and foil	4	3	3
Spain—			
Ingots and bars .. .. .	1,707	1,726	1,492
Sheets, tubes and foil .. .. .	40	24	11
Sweden—			
Crude and scrap .. .. .	1,346	1,195	1,432
Switzerland—			
Pigs, bars and slabs .. .. .	1,589	1,122	1,025
Sheets, wire, foil, etc. .. .. .	29	16	14
Scrap .. .. .	82	8	6
U.S.S.R. (Russia)—			
Blocks, pigs and scrap .. .. .	4,415	3,848	4,052
Yugoslavia—			
Crude and scrap .. .. .	394	297	139
Bars, sheets, wire, foil, etc. ..	13	6	5
Algeria—			
Crude, sheets and alloys, etc. ..	232	313	161
Belgian Congo .. .. .	19	8	7
Egypt—			
Crude and scrap .. .. .	447	374	447

## IMPORTS OF TIN (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Morocco—			
Ingots, sheets and wire .. ..	57	66	26
Tunis—			
Pigs, bars, and sheets .. ..	59	65	61
Cuba (total imports)—			
Ingots .. ..	19	15	(a)
Bars, sheets, etc. .. ..	90	64	(a)
Mexico—			
Ingots .. ..	94	—	94
United States—			
Ore ( <i>Sn content</i> ) .. ..	30	17	24
Blocks, pigs, bars, etc. .. ..	64,404	33,702	61,802
Argentina—			
Ingots and sheets .. ..	950	896	942
Brazil (total imports)—			
Bars, rods, sheets and plates ..	392	543	(a)
Colombia—			
Ingots, bars, sheets, etc. ..	(a)	19	(a)
Chile—			
Ingots .. ..	106	47	59
Bars and sheets .. ..	2	—	55
Ecuador—			
Ingots, sheets, etc. .. ..	5	4	(a)
Peru—			
Bars, sheets, etc. .. ..	26	40	33
Uruguay—			
Ingots .. ..	245	140	139
Venezuela—			
Crude .. ..	12	17	(a)
China—			
Ingots and slabs .. ..	1,087	176	206
Tin and lead foils .. ..	89	31	4
French Indo-China—			
Ore .. ..	13	2	—
Ingots and alloys .. ..	94	85	778
Sheets .. ..	69	34	32
Formosa—			
Ingots, slabs, etc. .. ..	141	116	(a)
Tin-foil .. ..	2	3	(a)
Iraq (b)—			
Crude, etc. .. ..	55	41	54

(a) Information not available.

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

IMPORTS OF TIN (*Cont.*)

Importing Country and Description.	1931	1932	1933
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Japan (total imports)—			
Ingots and slabs .. .. .	3,152	3,382	3,433
Tin-foil .. .. .	2	—	—
“Manchoukuo”—			
Ingots and slabs .. .. .	(a)	71	103
Netherlands East Indies—			
Tin and tin-foil .. .. .	130	144	106
Philippine Islands—			
Ingots .. .. .	43	54	(a)
Tin-foil .. .. .	—	6	(a)
Siam (total imports)—			
Crude .. .. .	12	22	19
Syria and Lebanon—			
Ingots and sheets .. .. .	82	61	60
Turkey—			
Ingots, etc. .. .. .	317	336	(a)

(a) Information not available.



## TITANIUM MINERALS

### PRODUCTION OF TITANIUM MINERALS

(Long tons)

Producing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Sierra Leone—			
Ilmenite .. .. .	10	—	—
Canada (shipments)—			
Titaniferous iron ore .. ..	1,347	—	—
India—			
Ilmenite .. .. .	36,166	50,053	43,384
Australia—			
Ilmenite ... .. .	—	—	550
<b>FOREIGN COUNTRIES</b>			
Norway—			
Ilmenite .. .. .	5,000	13,268	22,846
Rutile .. .. .	21	30	55
Portugal—			
Ilmenite .. .. .	150	—	—
Egypt .. .. .	—	479	—
Senegal—			
Ilmenite .. .. .	1,058	—	—
Brazil (exports)—			
Ilmenite .. .. .	—	34	(a)

NOTE.—Titanium minerals are also produced in the United States, but figures are not available for publication.

(a) Information not available.

## EXPORTS OF TITANIUM MINERAL, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
Canada—			
Titaniferous iron ore .. ..	1,347	—	—
India (Travancore) (b)—			
Ilmenite .. .. .	33,783	45,850	38,202
FOREIGN COUNTRIES			
France—			
Titanium oxide .. .. .	42	115	144
Italy—			
Ferro-titanium .. .. .	73	4	1
Titanium oxide .. .. .	485	552	584
Norway—			
Ilmenite .. .. .	7,989	10,657	14,517
Rutile .. .. .	26	30	59
Titanium oxide .. .. .	216	314	350
Senegal—			
Ilmenite .. .. .	394	—	300
Brazil—			
Ilmenite .. .. .	—	34	(a)

(b) Years ended July 31 of the year stated.

## IMPORTS OF TITANIUM MINERALS, ETC.\*

(Less Re-exports)

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom— Titanium and zirconium minerals	80	19	61
FOREIGN COUNTRIES			
France— Titanium oxide .. .. .	950	837	1,112
Italy— Ferro-titanium .. .. .	5	24	42
Titanium oxide .. .. .	10	1	21
United States— Ilmenite .. .. .	29,857	33,491	38,610
Titanium and ferro-titanium ..	1	2	3
Titanium compounds .. .. .	21	28	305
Rutile .. .. .	1	79	70

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

## TUNGSTEN

### PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES

(Long tons)

Producing Country	1931	1932	1933	Estimated WO <sub>3</sub> Content.		
				1931	1932	1933
BRITISH EMPIRE						
United Kingdom—						
Concentrates ..	100	2	11	71	1	7
Southern Rhodesia						
Concentrates ..	21	13	30	14	8	20
Union of South Africa—						
Concentrates ..	2	—	—	1	—	—
India—						
Concentrates ..	2,248	2,023	2,147	1,461	1,315	1,396
Federated Malay States—						
Wolfram ..	—	—	33	—	—	21
Scheelite ..	368	302	918	272	223	679
Unfederated Malay States—						
Wolfram ..	193	129	79	125	84	51
Australia—						
Wolfram ..	80	44	128	52	29	83
Scheelite ..	4	(12 cwt.)	—	3	(8 cwt.)	—
FOREIGN COUNTRIES						
Czechoslovakia—						
Concentrates ..	12	—	(a)	9	—	(a)
Tin-tungsten concentrates ..	10	—	(a)	1	—	(a)
Portugal—						
Concentrates ..	257	257	298	167	158	189
Spain—						
Concentrates ..	129	39	(a)	80	25	(a)
United States—						
Concentrates ..	1,254	354	799	752	212	479

(a) Information not available.

## PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	1931	1932	1933	Estimated WO <sub>3</sub> Content.		
				1931	1932	1933
FOREIGN COUNTRIES (Cont.)						
Argentina— Concentrates ..	19	6	(a)	12	4	(a)
Bolivia— .. Concentrates ..	402	671	230	242	405	140
China— Ore .. ..	2,970	2,180	(a)	1,782	1,308	(a)
French Indo-China Tin-tungsten con- centrates ..	231	218	229	154	145	149
Japan— Scheelite ..	51	20	(a)	33	13	(a)
Korea— Ore ... ..	15	56	(a)	10	36	(a)
Netherlands East Indies— ..	1	—	—	1	—	—
Siam (exports)— Ore .. ..	10	—	—	6	—	—

(a) Information not available.

## EXPORTS OF TUNGSTEN, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Tungsten ore .. .. .	140	607	30
Ferro-tungsten .. .. .	1,009	228	375
Tungsten powder, wire, etc. ..	63	13	46
British India—			
Tungsten and tin-tungsten ores ..	4,468	3,397	3,874
British Malaya (including re- exports)—			
Wolfram .. .. .	181	122	153
Scheelite .. .. .	368	302	918
Hong Kong (including re- exports)—			
Tungsten ore .. .. .	1,974	1,049	1,995
Australia—			
Wolfram .. .. .	62	57	129
New Zealand—			
Scheelite .. .. .	5	8	16
FOREIGN COUNTRIES			
Czechoslovakia—			
Tungsten ore .. .. .	10	—	—
Italy—			
Ferro-tungsten .. .. .	207	1,467	102
Portugal—			
Tungsten ore .. .. .	278	269	274
Spain—			
Wolfram and wulfenite .. .. .	192	91	23
Sweden—			
Ferro-tungsten .. .. .	24	91	193
United States—			
Tungsten and ferro-tungsten ..	472	63	381
Argentina—			
Tungsten ore .. .. .	23	6	—
Bolivia—			
Tungsten ore ( <i>WO<sub>3</sub> content</i> ) ..	242	405	140
China—			
Tungsten ore .. .. .	6,807	2,044	5,452

## EXPORTS OF TUNGSTEN, ETC.—(Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
French Indo-China—			
Tungsten ore .. .. .	206	134	265
Korea—			
Tungsten ore .. .. .	1	19	126
Siam (including re-exports)—			
Tungsten ore .. .. .	10	—	—

## IMPORTS OF TUNGSTEN, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom—			
Tungsten ore .. .. .	3,229	3,186	2,849
Tungsten powder, wire, etc. .. .. .	(1 cwt.)	2	2
Hong Kong (total imports)—			
Tungsten ore .. .. .	3,889	612	2,399
FOREIGN COUNTRIES			
Czechoslovakia—			
Tungsten ore .. .. .	2	—	—
Germany—			
Tungsten ore .. .. .	4,746	1,687	3,707
Italy—			
Ferro-tungsten .. .. .	57	2	8
Norway—			
Ferro-tungsten, etc. .. .. .	25	7	31
Sweden—			
Ferro-tungsten .. .. .	98	87	102
U.S.S.R. (Russia)—			
Ferro-tungsten .. .. .	3,622	2,109	2,389
United States (total imports)—			
Tungsten ore ( <i>W content</i> ) .. .. .	486	48	291
Ferro-tungsten and tungsten alloys ( <i>W content</i> ) .. .. .	46	1	6

## URANIUM MINERALS

### PRODUCTION OF URANIUM MINERALS

(Cwt.)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Canada .. .. .	—	(b)	(b)
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia ( $U_3O_8$ ) .. ..	309	376	(a)
Portugal .. .. .	—	645	1,233
Belgian Congo .. .. .	8,149	(i)	(i)
Madagascar .. .. .	8	—	(a)
United States ( $U_3O_8$ ) .. ..	11	(a)	(a)

Uranium minerals are also produced in Russia. The production recorded in 1927 was about 50 tons; later information is not available.

(a) Information not available.

(b) 58 tons of pitchblende were treated in Canada in 1933 and produced 3,021 mgrms. of radium of 98 per cent. average concentration and 34,940 lb. of uranium salts.

(i) The output of uranium minerals is not available for these years but it is reported that the radium produced from these ores amounted to 40; 6; and 6.7 grams in 1931, 1932 and 1933 respectively. This production of radium represents the greater part of the world's supplies.

### EXPORTS OF URANIUM MINERALS, ETC.

(Domestic Produce)

Exporting Country and Description	Unit	1931	1932	1933
<b>FOREIGN COUNTRIES</b>				
Belgium-Luxemburg E.U.— Uranium oxide .. .. .	Cwt.	1,701	551	638
France— Uranium salts .. .. .	Cwt.	2	—	—
Belgian Congo— Uranium minerals .. .. .	Cwt.	7,531	2,567	—



## IMPORTS OF URANIUM MINERALS, ETC.

*(Less Re-exports)*

Importing Country and Description	Unit	1931	1932	1933
BRITISH EMPIRE				
United Kingdom— Uranium minerals ..	Cwt.	165	242	137
Canada— Radium .. .. .	£	44,147	11,302	1,857
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.— Uranium oxide .. ..	Cwt.	4	2	2
France— Uranium oxide .. ..	Cwt.	69	55	83
Other uranium salts ..	do.	16	2	4
Radium and radium products .. .. .	Lb.	198	82	150
United States— Uranium oxide and salts	Cwt.	1,608	1,091	1,665
Radium salts .. ..	£	167,914	136,631	137,019
Colombia— Uranium oxide and salts..	Cwt.	3	(a)	(a)
Turkey— Uranium salts .. ..	Cwt.	34	—	(a)

(a) Information not available.

## VANADIUM

### PRODUCTION OF VANADIUM ORES

(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Northern Rhodesia—			
Oxide .. .. .	268	363	70
Concentrates .. .. .	705	1,204	—
South West Africa .. .. .	4,602	2,973	177
<b>FOREIGN COUNTRIES</b>			
France .. .. .	84	(a)	(a)

Vanadium ores are also produced in the United States.

(a) Information not available.

### EXPORTS OF VANADIUM

(Domestic Produce)

(Long tons)

Exporting Country and Description.	1931	1932	1933
<b>BRITISH EMPIRE</b>			
Northern Rhodesia—			
Concentrates .. .. .	504	897	—
Oxide .. .. .	190	421	51
South West Africa—			
Concentrates .. .. .	3,940	1,333	1,165
<b>FOREIGN COUNTRIES</b>			
France—			
Oxide .. .. .	1	—	—
Argentina—			
Ore .. .. .	—	—	118

## IMPORTS OF VANADIUM

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES			
Italy—			
Ferro-vanadium .. .. .	31	28	9
Norway—			
Ferro-vanadium, etc. .. .. .	25	7	31
U.S.S.R. (Russia)—			
Ferro-vanadium .. .. .	339	215	143
Turkey—			
Vanadium oxide .. .. .	10	—	(a)

Imports of vanadium ore, etc., into the United Kingdom are not separately recorded.

(a) Information not available.

## ZINC

## PRODUCTION OF ZINC ORE

*(In terms of metal)**(Long tons)*

Producing Country and Description	1931	1932	1933
BRITISH EMPIRE			
United Kingdom .. .. .	196	4	4
Northern Rhodesia .. .. .	6,927	—	18,542
Canada (shipments) (b) .. .. .	229,308	126,486	120,339
Newfoundland .. .. .	43,844	65,405	73,730
India .. .. .	45,300	41,400	55,400
Australia .. .. .	74,212	115,672	123,703
Total ..	400,000	349,000	392,000
FOREIGN COUNTRIES			
Austria .. .. .	686	1,585	2,070
Belgium (c) .. .. .	4,000	3,000	3,000
Czechoslovakia .. .. .	1,362	1,592	(a)
Finland .. .. .	(a)	740	(a)
France .. .. .	4,281	1,200	(a)
Germany .. .. .	103,358	74,086	90,000
Greece .. .. .	5,631	6,809	(a)
Italy .. .. .	46,348	31,674	25,000
Norway .. .. .	7,305	8,734	9,597
Poland .. .. .	62,000	25,000	35,000
Roumania .. .. .	3,971	105	4,129
Spain .. .. .	38,000	34,000	31,000
Sweden .. .. .	28,700	24,156	24,000
U.S.S.R. (Russia) .. .. .	20,000	(a)	(a)

(a) Information not available.

(b) The amount estimated as recoverable was—

1931 .. 105,913 long tons.

1932 .. 76,912 ..

1933 .. 88,898 ..

(c) *Metallgesellschaft* estimate.

## PRODUCTION OF ZINC ORE (Cont.)

Producing Country	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Yugoslavia .. .. .	31,598	47,207	58,326
Algeria .. .. .	3,602	1,849	2,254
French Morocco (ore) .. .. .	—	—	195
Tunis .. .. .	248	—	(a)
Mexico .. .. .	148,155	56,308	87,928
United States .. .. .	366,355	254,466	347,973
Bolivia (exports) .. .. .	14,438	12,763	13,200
Peru .. .. .	85	209	56
China .. .. .	5,800	4,300	(a)
French Indo-China .. .. .	7,900	4,918	4,910
Japan (c) .. .. .	10,000	10,000	10,000
Turkey (estimated) .. .. .	1,000	1,600	4,100
Total .. .. .	920,000	630,000	790,000
WORLD'S TOTAL .. .. .	1,320,000	980,000	1,180,000

(a) Information not available.

(c) Metallgesellschaft estimate.

METAL PRODUCTION OF ZINC  
(Long tons)

Producing Country	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom (b) .. .. .	21,241	26,875	45,000
Northern Rhodesia .. .. .	6,927	—	18,542
Canada .. .. .	105,913	76,912	82,095
Australia .. .. .	53,832	53,200	53,956
Total ..	188,000	157,000	200,000
<b>FOREIGN COUNTRIES</b>			
Belgium .. .. .	132,592	94,809	135,300
Czechoslovakia .. .. .	7,792	5,936	7,200
France .. .. .	56,211	48,000	54,000
Germany (b) (d) .. .. .	47,853	44,182	54,000
Italy .. .. .	16,646	17,700	22,915
Netherlands .. .. .	19,018	15,377	18,186
Norway .. .. .	38,849	38,751	44,238
Poland .. .. .	128,691	83,611	81,592
Spain .. .. .	9,935	9,355	8,119
Sweden .. .. .	92	140	(a)
U.S.S.R. (Russia) .. .. .	9,364	18,400	29,850
Yugoslavia (e) .. .. .	4,433	2,516	2,984
Mexico .. .. .	35,056	29,800	26,400
United States (c) .. .. .	260,711	184,954	274,270
French Indo-China .. .. .	2,836	2,244	3,198
Japan .. .. .	25,006	26,616	29,000
Total ..	790,000	620,000	790,000
WORLD'S TOTAL ..	980,000	780,000	990,000

(a) Information not available.

(b) Includes some secondary metal.

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

	1931	1932	1933
A—High grade .. .. .	74,504	39,460	93,663
B—Intermediate grade ..	21,361	11,871	24,166
C & D—Select and brass special .. .. .	65,423	59,682	62,485
E—Prime western .. .. .	118,730	87,082	120,820
Total secondary zinc re- covered .. .. .	91,000	63,500	(a)

(d) The figures published by *Metallgesellschaft* (which exclude secondary) are (long tons)—

1931	1932	1933
44,600	41,300	50,100

(e) Including zinc dust.

## PRODUCTION OF ZINC SHEETS

(Long tons)

Producing Country	1931	1932	1933
United Kingdom .. .. .	3,200	9,400	9,100
Austria .. .. .	(b) 1,000	(b) 1,000	1,329
Belgium .. .. .	63,511	55,047	68,000
Czechoslovakia .. .. .	1,456	943	2,961
France .. .. .	70,400	65,000	53,000
Germany .. .. .	51,114	43,486	54,301
Hungary .. .. .	(a)	(a)	1,039
Poland .. .. .	18,114	9,994	9,700
Spain .. .. .	4,000	3,085	3,561
Yugoslavia .. .. .	800	620	670
United States .. .. .	44,021	35,474	36,840

(a) Information not available.

(b) Estimated.

## PRODUCTION OF ZINC DUST

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Canada (estimated) .. .. .	100	100	100
FOREIGN COUNTRIES			
Belgium .. .. .	3,868	3,730	(a)
Germany .. .. .	2,143	2,168	5,140
Poland .. .. .	8,700	3,911	5,196
United States—			
Prepared blue powder (sales) ..	9,474	7,184	9,962
Primary zinc recovered as dust ..	2,518	1,876	(a)

(a) Information not available.

## PRODUCTION OF ELECTROLYTIC ZINC

(Long tons)

Producing Country	1931	1932	1933
BRITISH EMPIRE			
Northern Rhodesia .. .. .	6,871	—	18,542
Canada .. .. .	105,913	76,912	82,095
Australia (Tasmania) .. .. .	53,832	53,200	53,956
FOREIGN COUNTRIES			
France.. .. .	23,100	18,800	21,600
Italy .. .. .	11,409	11,409	14,100
Norway .. .. .	38,849	38,751	44,238
Poland .. .. .	9,584	(b) 11,000	(b) 18,000
United States.. .. .	73,123	20,721	78,853
Japan .. .. .	1,205	(b) 1,000	4,000

(b) Estimated.



EXPORTS OF ZINC  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore .. .. .	12,518	5,570	4,408
Spelter .. .. .	4,978	4,913	4,560
Sheets, plates and discs .. .. .	1,176	1,303	1,026
Oxide .. .. .	4,419	10,580	12,376
Lithopone .. .. .	1,674	2,273	4,210
Northern Rhodesia—			
Ingots .. .. .	11,719	65	16,425
Canada—			
Ore ( <i>Zn content</i> ) .. .. .	—	—	3,717
Spelter .. .. .	106,258	78,269	77,435
Dross, scrap and ashes .. .. .	488	370	2,813
Newfoundland (years ended June 30)—			
Concentrates .. .. .	45,783	88,847	129,900
British Borneo (Sarawak)—			
Zinc .. .. .	(£136)	(£1,504)	(£1,095)
British India—			
Concentrates, etc. .. .. .	54,818	49,950	64,050
British Malaya (including re-exports)—			
Sheets .. .. .	88	93	120
Hong Kong (including re-exports)—			
Sheets .. .. .	1,894	1,889	1,883
Australia—			
Ores and concentrates ( <i>Zn content</i> )	43,026	30,238	66,080
Dust ( <i>£ Australian</i> ) .. .. .	(£100)	(£18)	(£120)
Bars, rods, sheets, etc. .. .. .	56,396	37,487	30,216
<b>FOREIGN COUNTRIES</b>			
Austria—			
Ores .. .. .	2,512	2,252	2,002
Spelter, scrap and alloys .. .. .	1,338	921	853
Sheets, bars, etc. .. .. .	131	156	141
Zinc-white and zinc-grey .. .. .	(d) 56	35	2
Lithopone, etc. .. .. .	191	25	28

(d) Including titanium white.

## EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.—			
Ore .. .. .	33,943	25,294	37,928
Spelter and scrap .. .. .	55,720	63,034	52,784
Sheets and wire .. .. .	46,763	39,612	45,247
Dust .. .. .	3,015	3,071	3,230
Oxide .. .. .	10,334	6,713	6,362
Lithopone .. .. .	13,222	9,556	11,704
Czechoslovakia—			
Ore .. .. .	192	—	384
Spelter, scrap and alloys .. .. .	697	856	581
Sheets and plates .. .. .	918	714	921
Zinc-white and zinc-grey .. .. .	1,640	790	308
Lithopone .. .. .	1,034	821	604
Denmark—			
Spelter, sheets and scrap .. .. .	356	254	238
France—			
Ore .. .. .	29,103	26,986	32,303
Spelter, bars and scrap .. .. .	5,710	1,769	1,763
Sheets .. .. .	4,778	4,025	3,499
Oxide .. .. .	3,186	2,505	2,371
Lithopone .. .. .	376	612	417
Germany—			
Ore .. .. .	124,896	93,647	99,857
Spelter, dust, scrap and alloys .. .. .	14,833	13,132	19,707
Sheets and wire .. .. .	6,779	5,398	6,310
Zinc-white and zinc-grey .. .. .	29,298	19,653	19,188
Lithopone .. .. .	17,816	11,702	12,847
Greece—			
Oxide .. .. .	1,734	—	—
Hungary—			
Spelter and scrap .. .. .	75	13	—
Sheets .. .. .	322	96	239
Zinc-white and zinc-grey .. .. .	81	19	—
Italy—			
Ore .. .. .	67,419	31,370	31,098
Ashes .. .. .	173	112	211
Spelter, scrap and alloys .. .. .	414	—	—
Sheets, wire and alloys, etc. .. .. .	25	18	31
Oxide .. .. .	31	16	20
Lithopone .. .. .	423	324	496
Latvia—			
Zinc-white .. .. .	11	35	14

## EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Ore .. .. .	20	8,731	716
Spelter and scrap .. .. .	15,242	14,495	13,301
Sheets .. .. .	4,739	4,092	4,381
Oxide .. .. .	90	47	15
Norway—			
Ore .. .. .	11,706	18,468	17,257
Spelter .. .. .	44,681	37,214	44,989
Ashes and scrap .. .. .	643	224	129
Zinc-white .. .. .	17	—	—
Poland—			
Ores and slag .. .. .	821	1	47
Spelter, dust and scrap .. .. .	107,113	67,786	60,469
Refined zinc .. .. .	6,962	9,458	6,043
Sheets, tubes and wire .. .. .	9,513	4,522	4,523
Zinc-white and lithopone .. .. .	3,025	2,145	3,191
Roumania—			
Ore .. .. .	4,723	8,343	13,340
Scrap .. .. .	41	10	—
Zinc-white and zinc-grey .. .. .	5	—	—
Spain—			
Blende .. .. .	60,583	64,880	61,839
Calamine .. .. .	31,117	3,514	11,853
Spelter and scrap .. .. .	2,109	358	1,381
Plates, nails and wire .. .. .	44	38	55
Sweden—			
Ore .. .. .	63,921	46,200	47,794
Spelter, sheets and scrap .. .. .	1,807	1,365	1,077
Zinc-white .. .. .	15	39	8
Switzerland—			
Spelter and scrap .. .. .	4,059	3,769	3,786
Zinc-white, etc. .. .. .	4	4	18
U.S.S.R. (Russia)—			
Calamine .. .. .	46,021	6,243	13,021
Yugoslavia—			
Ore .. .. .	43,751	75,884	88,996
Spelter, scrap and dust .. .. .	2,015	970	1,705
Plates and sheets .. .. .	10	20	65
Zinc-white .. .. .	57	35	73
Algeria—			
Ore .. .. .	7,467	3,856	9,320
Spelter, plates and scrap .. .. .	278	153	348
Oxide .. .. .	3	18	(a)
Lithopone .. .. .	8	—	(a)

(a) Information not available.

## EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Egypt—			
Spelter and scrap .. .. .	75	83	91
Morocco—			
Ore and scrap .. .. .	573	16	35
Tunis (including re-exports)—			
Ore .. .. .	1,138	—	—
Mexico—			
Ores and concentrates ( <i>Zn content</i> )	65,009	53,937	62,762
Spelter .. .. .	39,500	19,154	20,358
United States—			
Ore .. .. .	12	—	} (b) 722
Dross .. .. .	341	159	
Spelter .. .. .	574	5,778	1,022
Dust .. .. .	1,250	1,230	1,401
Sheets, strips, etc. .. .. .	2,464	2,687	2,847
Oxide .. .. .	4,581	1,126	644
Lithopone .. .. .	3,411	2,868	1,059
Argentina—			
Slag and ash .. .. .	1,084	839	510
Bolivia—			
Ores ( <i>Zn content</i> ) .. .. .	14,438	12,763	13,200
Chile—			
Ore .. .. .	5	—	—
Spelter and sheets .. .. .	101	—	5
Peru—			
Ores, etc. ( <i>Zn content</i> ) .. .. .	96	76	61
China—			
Ore .. .. .	8,015	10,455	5,722
Spelter .. .. .	(a)	19	53
French Indo-China—			
Ore .. .. .	14,459	2,953	3,320
Spelter and scrap .. .. .	2,568	638	4,594
Sheets .. .. .	2	2	—
Korea—			
Ore .. .. .	2	3	2,723
Turkey—			
Ore .. .. .	1,526	—	(a)
Spelter, scrap and alloys .. .. .	137	65	(a)

(a) Information not available.

(b) *Zn content*.

## IMPORTS OF ZINC

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1931	1932	1933
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Calamine .. .. .	1,026	—	} 132,063
Sulphides .. .. .	73,083	112,487	
Ashes, etc. .. .. .	2,864	1,217	
Spelter .. .. .	139,047	85,911	80,700
Sheets, plates and discs .. .. .	22,341	13,141	14,589
Oxide .. .. .	7,784	765	685
Lithopone .. .. .	21,803	6,030	10,204
Irish Free State—			
Sheets and plates .. .. .	151	244	441
Kenya and Uganda—			
Bars, plates and sheets .. .. .	8	4	3
Southern Rhodesia—			
Spelter .. .. .	209	262	427
South West Africa—			
Spelter .. .. .	2	1	3
Union of South Africa (total imports)—			
Spelter and dust .. .. .	412	414	389
Sheets, bars, rods, etc. .. .. .	2,438	1,507	1,424
Canada—			
Spelter .. .. .	10	30	72
Dust .. .. .	180	237	376
Sheets, plates, bars etc. .. .. .	2,028	1,872	1,779
Zinc-white .. .. .	5,126	4,514	4,404
Lithopone .. .. .	6,189	7,192	5,084
British Borneo (Sarawak)—			
Sheets .. .. .	(£516)	(£694)	(£1,095)
British India (total imports)—			
Spelter .. .. .	8,695	15,306	12,610
Sheets, etc. .. .. .	1,268	1,429	1,534
Zinc-white .. .. .	2,462	2,469	3,222
Lithopone .. .. .	631	699	872
British Malaya (total imports)—			
Sheets .. .. .	231	199	288
Ceylon—			
Sheets and plates .. .. .	33	42	23

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1931	1932	1933
BRITISH EMPIRE (Cont.)			
Hong Kong (total imports)—			
Sheets .. .. .	1,259	756	1,469
Palestine (total imports)—			
Spelter and sheets .. .. .	100	138	226
Australia—			
Dust .. .. .	(£177)	(£33)	(£135)
Blocks, sheets, scrap, etc. .. .. .	557	727	684
Oxides .. .. .	89	31	89
Lithopone .. .. .	850	1,141	1,237
New Zealand—			
Spelter, bars and sheets .. .. .	144	145	156
FOREIGN COUNTRIES			
Austria—			
Spelter, scrap and alloys .. .. .	6,690	5,057	4,730
Sheets, bars etc. .. .. .	53	15	18
Zinc-white and zinc-grey .. .. .	(d) 1,272	188	263
Lithopone, etc. .. .. .	2,444	1,789	1,694
Belgium-Luxemburg E.U.—			
Ore .. .. .	376,845	251,600	330,198
Spelter and scrap .. .. .	34,832	25,465	10,927
Sheets and wire .. .. .	851	1,295	1,456
Dust .. .. .	100	95	104
Oxide .. .. .	1,995	2,109	2,217
Lithopone .. .. .	1,439	765	768
Bulgaria—			
Spelter, bars, sheets and scrap .. .. .	808	1,072	938
Zinc-white .. .. .	} (c) 554	336	231
Lithopone .. .. .		197	205
Czechoslovakia—			
Ore .. .. .	13,402	10,514	13,101
Spelter, scrap and alloys .. .. .	11,415	8,461	8,424
Sheets and plates .. .. .	131	61	35
Zinc-white, zinc-grey, etc. .. .. .	175	65	5
Denmark—			
Spelter and scrap .. .. .	2,274	2,373	3,523
Plates and sheets .. .. .	4,601	2,879	3,621
Zinc-white .. .. .	2,065	1,811	2,241
Lithopone .. .. .	1,293	1,128	1,370

(c) Including red and white lead.

(d) Including titanium white.

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Estonia—			
Spelter, plates, dust and scrap ..	75	45	104
Zinc-white .. .. .	193	222	250
Lithopone .. .. .	5	23	24
Finland (total imports)—			
Spelter, sheets and scrap ..	440	446	713
Zinc-white .. .. .	1,394	1,222	1,485
Lithopone, etc. .. .. .	258	246	255
France—			
Ore .. .. .	184,491	121,205	174,027
Spelter, bars and scrap .. ..	58,698	51,798	51,752
Sheets .. .. .	2,576	2,216	3,968
Oxide .. .. .	855	445	692
Lithopone .. .. .	124	181	156
Germany—			
Ores .. .. .	83,078	58,552	77,819
Spelter, dust, scrap and alloys ..	117,112	100,182	99,037
Sheets and wire .. .. .	6,966	5,921	6,756
Zinc-white and zinc-grey .. ..	654	336	248
Lithopone .. .. .	3,570	3,592	3,629
Greece—			
Spelter .. .. .	476	359	322
Hungary—			
Spelter and scrap .. .. .	4,095	3,108	3,430
Sheets .. .. .	25	11	9
Zinc-white and zinc-grey .. ..	149	51	53
Lithopone .. .. .	544	541	183
Iceland—			
Zinc-white .. .. .	32	29	(a)
Italy—			
Ore and ashes .. .. .	1	3,404	8,840
Spelter, scrap and alloys .. ..	1,893	2,506	4,566
Sheets, wire, etc., and alloys ..	1,826	1,264	789
Oxide .. .. .	1,390	924	715
Lithopone .. .. .	1,109	1,603	911
Latvia—			
Spelter, sheets and scrap .. ..	469	698	679
Zinc-white .. .. .	255	26	2
Lithopone .. .. .	43	40	34
Lithuania—			
Spelter, sheets and scrap .. ..	197	181	465
Zinc-white .. .. .	87	163	602
Lithopone .. .. .	98	81	85

(a) Information not available.

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Ore .. .. .	53,238	35,883	31,865
Spelter and scrap .. .. .	8,838	5,094	6,341
Sheets .. .. .	9,267	7,009	7,152
Zinc-white .. .. .	3,821	3,573	3,506
Lithopone .. .. .	1,487	1,389	1,473
Oxide .. .. .	14,408	7,883	7,421
Norway—			
Ore .. .. .	73,066	75,960	75,123
Ashes and scrap .. .. .	158	279	93
Spelter .. .. .	1,473	337	318
Bars and sheets .. .. .	1,491	1,429	1,498
Zinc-white .. .. .	2,117	1,809	1,871
Lithopone .. .. .	(a)	121	152
Poland—			
Ores and slag .. .. .	147,413	99,154	111,197
Spelter, dust and scrap .. .. .	3	166	86
Refined zinc, sheets, etc. .. .. .	5	9	50
Zinc-white and lithopone .. .. .	100	76	161
Portugal—			
Sheets, etc. .. .. .	529	593	535
Oxide .. .. .	123	185	(a)
Lithopone .. .. .	447	478	(a)
Roumania—			
Spelter .. .. .	2,475	3,901	4,039
Sheets, plates and wire .. .. .	682	848	917
Zinc-white and zinc-grey .. .. .	995	1,024	248
Lithopone .. .. .	361	324	320
Spain—			
Blende .. .. .	89	600	882
Calamine .. .. .	583	—	—
Spelter and scrap .. .. .	1,285	1,109	1,768
Plates, nails and wire .. .. .	51	38	30
Sweden—			
Spelter and scrap .. .. .	8,420	8,255	8,861
Sheets .. .. .	2,295	1,536	1,781
Zinc-white .. .. .	5,938	4,544	5,252
Lithopone .. .. .	1,917	1,895	1,930
Switzerland—			
Spelter and scrap .. .. .	7,161	4,109	6,283
Bars, sheets, pipes and wire .. .. .	1,639	1,440	1,266
Zinc-white, lithopone, etc. .. .. .	4,628	4,447	5,088

(a) Information not available.



## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
U.S.S.R. (Russia)—			
Spelter, sheets, dust, etc. ..	23,285	10,439	5,718
Yugoslavia—			
Ore .. .. .	4,285	3,643	2,747
Spelter and scrap .. ..	400	336	85
Bars, sheets, wire, etc. ..	42	18	13
Zinc-white, lithopone, etc. ..	406	179	324
Algeria—			
Spelter, sheets and scrap ..	1,389	1,121	183
Oxide .. .. .	994	716	(a)
Lithopone .. .. .	8	130	(a)
Belgian Congo—			
Spelter, etc. .. .. .	3	—	2
Canary Islands (total imports)—			
Sheets, wire and nails .. ..	450	148	(a)
Egypt—			
Spelter, sheets and scrap ..	348	(b) 387	(b) 307
Zinc-white .. .. .	976	1,595	1,335
Morocco—			
Spelter, sheets and wire .. ..	302	182	172
Lithopone .. .. .	144	173	257
Mozambique—			
Spelter, bars and sheets .. ..	274	266	(a)
Tunis—			
Sheets .. .. .	251	198	205
Oxide .. .. .	132	160	196
Cuba (total imports)—			
Spelter and sheets .. .. .	54	43	(a)
Mexico—			
Spelter, sheets and scrap .. ..	1,277	1,008	878
Panama—			
Sheets .. .. .	7	(a)	(a)
Zinc-white .. .. .	61	(a)	(a)
United States—			
Ore ( <i>Zn content</i> ) .. .. .	697	1,700	1,905
Spelter and scrap .. .. .	245	278	1,733
Pigments (total imports) .. ..	6,369	6,604	7,267
Argentina—			
Spelter and bars .. .. .	5,459	3,716	4,124
Sheets and plates .. .. .	2,629	1,936	2,330
Zinc-white .. .. .	1,186	1,257	1,670
Lithopone .. .. .	1,009	981	1,177

(a) Information not available.

(b) Total imports.

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1931	1932	1933
FOREIGN COUNTRIES (Cont.)			
Brazil (total imports)—			
Bars, sheets and plates .. ..	613	1,040	(a)
Zinc-white .. .. .	3,006	3,674	(a)
Chile—			
Spelter .. .. .	656	183	197
Sheets .. .. .	503	49	114
Zinc-white, etc. .. .. .	233	389	11
Colombia—			
Zinc-white .. .. .	186	196	(a)
Ecuador—			
Spelter, sheets and pipes .. ..	25	26	(a)
Peru—			
Spelter, bars, sheets, etc. .. ..	40	47	75
Uruguay—			
Sheets .. .. .	144	58	79
Venezuela—			
Spelter .. .. .	18	25	(a)
Oxide .. .. .	321	211	(a)
China			
Spelter and dust .. .. .	1,143	630	1,728
Sheets and plates .. .. .	1,973	1,541	2,489
Zinc-white .. .. .	2,011	2,117	1,808
French Indo-China—			
Spelter .. .. .	12	9	19
Sheets .. .. .	394	972	763
Oxide .. .. .	30	52	79
Japan (total imports)—			
Ore .. .. .	24,507	34,983	37,216
Spelter .. .. .	20,170	20,574	26,651
Sheets and plates .. .. .	2,355	2,925	3,149
“Manchoukuo”—			
Zinc-white .. .. .	(a)	161	283
Netherlands East Indies—			
Spelter and alloys .. .. .	441	525	509
Zinc-white .. .. .	1,163	1,102	1,024
Philippine Islands—			
Spelter, bars and sheets .. .. .	91	107	(a)
Oxide .. .. .	596	736	(a)
Siam (total imports)—			
Spelter .. .. .	441	400	410
Syria and Lebanon—			
Spelter and sheets .. .. .	162	237	180
Turkey—			
Ore .. .. .	10	2	(a)
Spelter, scrap and alloys .. .. .	40	539	(a)
Bars, tubes, wire and alloys .. ..	1,089	1,217	(a)

(a) Information not available.

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- Statistics of the Iron and Steel Industries : National Federation of Iron and Steel Manufacturers.  
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