

IMPERIAL INSTITUTE.  
*Mineral Resources Department.*

THE MINERAL INDUSTRY OF  
THE BRITISH EMPIRE  
AND  
FOREIGN COUNTRIES.

---



STATISTICAL SUMMARY  
(Production, Imports and Exports)  
1928-1930



LONDON:

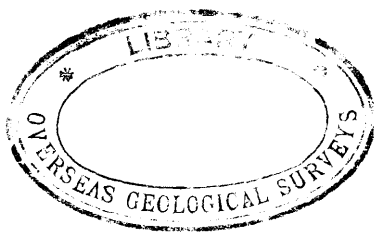
PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.

To be purchased directly from H.M. STATIONERY OFFICE at the following addresses:  
Admiral House, Kingsway, London, W.C.2; 26, Abingdon Street, London, S.W.1;  
York Street, Manchester; 1, St. Andrew's Crescent, Cardiff;  
or 100, George Street, Edinburgh;  
or through any Bookseller.

1925.

*Price 8s. 0d. Net.*









417229  
18-4 D12

## IMPERIAL INSTITUTE SOUTH KENSINGTON, S.W.7.

---

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.

*Advisory Technical Committees.*—A number of Advisory Technical Committees, consisting of authorities on the various groups of raw materials, co-operate in the work of the Imperial Institute and a close touch is maintained with producers, users, merchants and brokers. Valuable help can thus be given to persons interested in the development of the resources of raw materials throughout the British Empire.

*Public Exhibition Galleries.*—The galleries contain comprehensive collections illustrating the natural resources, industries, scenery and life of each country of the Empire overseas.

*Publications.*—Various publications are issued containing information of an authoritative character dealing with the various raw materials and the related industries.

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

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



# IMPERIAL INSTITUTE

## THE MINERAL INDUSTRY OF THE BRITISH EMPIRE

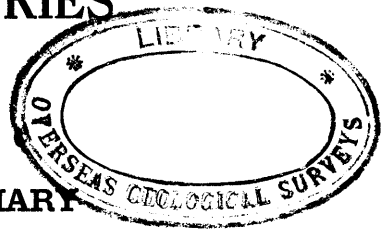
AND

## FOREIGN COUNTRIES

---

### STATISTICAL SUMMARY

(Production, Imports and Exports)



#### ERRATA.

Page 322. Silver ingots purchased in the market and bearing refiner's mark.

Venezuela should be "(a)" for both 1929 and 1930 instead of "67,000,000" and "61,000,000".

China should be "67,000,000 (c)" for 1929 and "61,000,000 (c)" for 1930.

Footnote (d) should be deleted.

Page 362. Peru (1930).

"7470" should read "(a)".

8773) Wt. /1658 375 12/31 Hw. G.4

PRINTED AND PUBLISHED BY THE IMPERIAL INSTITUTE  
To be purchased directly from H.M. STATIONERY OFFICE at the following addresses:  
Adastral House, Kingsway, London, W.C.2; 120, George Street, Edinburgh;  
York Street, Manchester; 1, St. Andrew's Crescent, Cardiff;  
15, Donegall Square West, Belfast;  
or through any Bookseller.

1931.

Price 5s. 6d. Net.



9 Lithium minerals  
 Selenium  
 Colomite  
 Boron

CONTENTS

	PAGE
Introductory Note .. .. .	4
- Abrasives .. .. .	5
x Aluminium .. .. .	15
x Antimony .. .. .	24
Arsenic .. .. .	29
x Asbestos .. .. .	34
x Barium Minerals .. .. .	41
Bismuth .. .. .	47
Borates .. .. .	50
Cadmium .. .. .	55
x China Clay .. .. .	57
x Chrome Ore and Chromium .. .. .	60
x Coal, Coke and By-Products .. .. .	65
x Cobalt .. .. .	101
x Copper .. .. .	104
x Diamonds .. .. .	120
Diatomaceous Earth .. .. .	123
Felspar .. .. .	125
x Fluorspar .. .. .	127
Fuller's Earth .. .. .	129
+ Gold .. .. .	130
x Graphite .. .. .	143
x Gypsum .. .. .	147
x Iron and Steel .. .. .	153
x Lead .. .. .	174
x Magnesite .. .. .	190
x Manganese .. .. .	197
x Mica .. .. .	203
x Molybdenum .. .. .	208
Monazite .. .. .	210
x Nickel .. .. .	214
x Nitrates .. .. .	220
x Petroleum and Allied Products .. .. .	232
x Phosphates .. .. .	265
- Platinum .. .. .	275
x Potash Minerals .. .. .	280
x Pyrites .. .. .	292
x Quicksilver .. .. .	296
Salt .. .. .	301
+ Silver .. .. .	313
Strontium Minerals .. .. .	323
x Sulphur .. .. .	325
Talc .. .. .	331
x Tin .. .. .	334
Titanium Minerals .. .. .	344
x Tungsten .. .. .	346
Uranium Minerals .. .. .	350
+ Vanadium .. .. .	352
x Zinc .. .. .	354
List of Statistical Publications .. .. .	369

## INTRODUCTORY NOTE

---

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

Trade statistics given 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.

Trade statistics given 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.

Production statistics in the case of Bavaria refer only to that part of Bavaria lying to the east of the Rhine.

In those cases where values are stated in place of quantities, these values have been converted to £ sterling at the average rates of exchange for the year in question.

The units of quantity adopted are the British statute cwt. and ton of 112 lb. (avdp.) and 2,240 lb. (avdp.) respectively, the imperial gallon and the metric carat. For precious metals the troy ounce of 480 grains is used.

---

### ABRASIVES

#### PRODUCTION OF NATURAL ABRASIVES (Long tons)

Producing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE.</b>			
Kenya—			
Corundum .. .. .	—	(130 lb.)	(120 lb.)
Southern Rhodesia—			
Corundum .. .. .	22	20	9
Union of South Africa—			
Corundum .. .. .	1,550	3,249	2,399
Canada—			
Grindstones .. .. .	1,161	1,114	209
Pulpstones .. .. .	519	} 486	530
Sharpening stones .. .. .	21		20
India—			
Corundum .. .. .	21	34	30
Garnet sand .. .. .	480	—	7
New Zealand—			
Pumice (b) .. .. .	2,301	2,242	2,559
<b>FOREIGN COUNTRIES.</b>			
Belgium—			
Grindstones ( <i>number</i> ) .. .. .	228,890	141,700	(a)
France—			
Millstones .. .. .	25,200	(a)	(a)
Sharpening stones .. .. .	1,120	(a)	(a)
Germany (Bavaria)—			
Emery .. .. .	405	388	188
Whetstones .. .. .	31	9	13
Greece—			
Emery .. .. .	12,922	10,393	27,182
Millstones ( <i>number</i> ) .. .. .	5,330	1,893	(a)
Italy—			
Pumice .. .. .	27,000	52,387	50,524
Grindstones .. .. .	1,114	199	276
Sharpening stones .. .. .	945	1,585	846
Whetstones .. .. .	851	792	722
Jugoslavia—			
Millstones ( <i>number</i> ) .. .. .	(a)	(a)	1,041
Russia (years ended Sept. 30)—			
Corundum and Emery .. .. .	9,453	(a)	(a)
Pumice .. .. .	2,989	(a)	(a)
Grindstones and millstones .. .. .	2,395	(a)	(a)
do. ( <i>additional</i> ) ( <i>pairs</i> ) .. .. .	802	(a)	(a)
do. do. ( <i>number</i> ) .. .. .	96	(a)	(a)
do. do. ( <i>cu.metres</i> ) .. .. .	215	(a)	(a)
Spain—			
Garnet .. .. .	320	—	(a)

(a) Information not available.

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

PRODUCTION OF NATURAL ABRASIVES (*Cont.*)

Producing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Sweden—			
Millstones, etc. . . . .	150	81	(a)
Madagascar (exports)—			
Corundum . . . . .	113	41	73
United States—			
Emery . . . . .	1,197	825	496
Garnet . . . . .	5,908	5,322	4,467
Pumice . . . . .	51,277	54,351	50,753
Tripoli . . . . .	30,396	33,938	28,963
Millstones, chasers, etc. . . . .	(£8,810)	(£6,466)	(£3,641)
Grindstones . . . . .	21,627	18,813	12,999
Pulpstones . . . . .	8,050	5,951	3,697
Oilstones, whetstones, etc. . . . .	854	748	581
Japan—			
Pumiceous sand . . . . .	76,531	(a)	(a)
Turkey—			
Emery . . . . .	10,959	7,483	3,117
Millstones ( <i>number</i> ) . . . . .	(a)	2,740	3,103

Crude artificial abrasives sold, shipped or used from manufacturing plants in the United States and Canada (long tons)—

	1928	1929	1930
Silicon carbide . . . . .	19,788	27,062	19,650
Aluminium oxide . . . . .	52,771	64,834	41,487
Metallic abrasives . . . . .	16,488	21,240	14,669

(a) Information not available.



EXPORTS OF ABRASIVES  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Natural abrasives .. ..	4,505	4,552	3,124
Artificial abrasives .. ..	314	272	291
Oil stones .. .. .	1	2	3
Grinding wheels of—			
Artificial corundum, etc. ..	14	34	30
Carborundum .. .. .	292	423	226
Emery .. .. .	188	183	126
Other hard abrasives ..	33	41	47
Grindstones, millstones and whetstones.. .. .	7,619	7,672	6,249
Union of South Africa—			
Corundum .. .. .	1,632	3,355	2,492
Canada—			
Natural abrasives, including diatomaceous earth.. ..	262	370	333
Artificial abrasives .. ..	55,147	70,170	50,392
Artificial abrasive wheels, etc.	(£13,084)	(£10,968)	(£7,491)
Grindstones .. .. .	(£5,900)	(£7,498)	(£2,397)
New Zealand—			
Pumice .. .. .	2,301	2,442	2,549
<b>FOREIGN COUNTRIES</b>			
Austria—			
Emery .. .. .	60	68	67
Pumice .. .. .	100	116	79
Grindstones, natural .. ..	263	231	129
do. artificial .. .. .	177	167	120
Belgium-Luxemburg E. U.—			
Millstones and grindstones ..	352	375	363
Other abrasives .. .. .	44	201	108
Bulgaria—			
Grindstones, etc. .. .. .	135	102	(a)
Czechoslovakia—			
Carborundum .. .. .	51	50	74
Emery and pumice .. .. .	11	11	9
Grindstones, etc., natural ..	220	275	189
do. carborundum .. .. .	408	367	314
do. emery, etc... .. .	537	622	495
Other abrasives.. .. .	77	13	25

(a) Information not available.

EXPORTS OF ABRASIVES (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
France—			
Corundum and ground emery	3,512	5,615	2,343
Pumice .. .. .	232	212	314
Millstones and grindstones ..	8,157	7,320	5,558
Whetstones .. .. .	433	446	337
Artificial abrasives .. .. .	564	1,249	738
Germany—			
Emery .. .. .	1,223	1,371	979
Pumice, etc. .. .. .	144,256	150,643	197,467
Carborundum .. .. .	(a)	2,018	5,087
Other abrasives .. .. .	9,204	10,558	10,179
Greece—			
Emery .. .. .	15,797	12,964	11,712
Hungary—			
Emery .. .. .	1	1	—
Millstones .. .. .	132	54	35
Grindstones .. .. .	24	14	10
Italy—			
Emery and corundum .. .. .	51	21	12
Pumice .. .. .	35,026	45,255	40,180
Whetstones, natural .. .. .	427	293	276
Grindstones, natural .. .. .	27	14	38
Millstones, natural .. .. .	331	211	118
do. artificial .. .. .	33	15	3
Artificial abrasives .. .. .	3	3	4
Jugoslavia—			
Millstones .. .. .	271	211	140
Grindstones, natural .. .. .	969	989	571
do. artificial .. .. .	23	14	10
Netherlands—			
Emery .. .. .	2,315	2,447	2,062
Poland—			
Grindstones and millstones ..	194	69	84
Sweden—			
Emery .. .. .	7	9	10
Carborundum, etc. .. .. .	322	375	313
Other abrasives .. .. .	153	224	184
Switzerland—			
Carborundum, etc., crude ..	19	16	37
do. ground .. .. .	1,047	967	1,256
Grindstones .. .. .	78	76	37
Madagascar—			
Corundum .. .. .	113	41	73

EXPORTS OF ABRASIVES (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
United States—			
Wheels of emery and corundum	329	371	214
Grindstones .. .. .	4,747	3,383	2,230
Other natural abrasives ..	4,298	4,314	3,368
Crude artificial abrasives ..	8,204	7,208	6,740
Artificial abrasive wheels ..	2,807	2,892	2,138
Other artificial abrasives ..	3,609	2,586	2,413
Turkey—			
Emery and carborundum ..	2,795	697	517
Millstones and grindstones ..	273	81	190
Whetstones, pumice, etc. ..	266	51	1

(a) Information not available.

## IMPORTS OF ABRASIVES

(Less Re-exports)

(Long tons)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Emery .. .. .	10,046	8,997	7,818
Artificial corundum .. .. .	1,883	2,521	918
Carborundum .. .. .	2,234	2,165	2,431
Other hard abrasives .. .. .	11,043	12,157	17,373
Oil stones .. .. .	15	6	9
Grinding wheels of—			
Artificial corundum, etc. .. .. .	548	565	455
Carborundum .. .. .	145	200	206
Emery .. .. .	79	114	87
Other hard abrasives .. .. .	40	34	33
Grindstones, millstones and whetstones .. .. .	473	378	403
Irish Free State—			
Manufactured abrasives .. .. .	(£12,963)	(£20,465)	(£31,868)
Kenya and Uganda—			
Grindstones .. .. .	5	6	9
Tanganyika—			
Grindstones .. .. .	7	5	8
Union of South Africa—			
Emery .. .. .	11	9	6
Pumice .. .. .	80	59	75
Other abrasives .. .. .	(£1,311)	(£1,637)	(£3,192)
Emery and other wheels .. .. .	(£10,119)	(£10,667)	(£9,253)
Canada—			
Pumice, etc. .. .. .	(£9,865)	(£7,348)	(£7,409)
Emery, ground .. .. .	(£10,938)	(£11,125)	(£7,668)
Artificial abrasives, ground .. .. .	(£50,240)	(£51,442)	(£42,094)
Carborundum, partly manu- factured .. .. .	(£45,646)	(£44,855)	(£11,852)
Emery or carborundum manu- factures .. .. .	(£39,640)	(£47,581)	(£57,144)
Grindstones .. .. .	(£134,111)	(£91,637)	(£49,593)
Ceylon—			
Grindstones .. .. .	(£1,168)	(£1,774)	(£1,142)
Other abrasives .. .. .	(£418)	(£820)	(£245)
Australia (£ Australian)—			
Abrasives .. .. .	(£19,968)	(£21,838)	(£16,081)

## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE (Cont.)			
New Zealand—			
Pumice .. .. .	3	11	5
Grindstones, etc. ( <i>£ New Zealand</i> ) .. .. .	(£6,732)	(£7,796)	(£4,577)
FOREIGN COUNTRIES			
Austria—			
Emery .. .. .	425	511	448
Pumice.. .. .	641	540	520
Grindstones, natural .. .. .	2,500	2,605	1,739
do. artificial .. .. .	366	357	274
Belgium-Luxemburg E.U.—			
Millstones and grindstones .. .. .	1,905	1,874	1,404
Other abrasives .. .. .	4,260	4,392	3,750
Bulgaria—			
Grindstones, etc. .. .. .	1,048	858	(a)
Czechoslovakia—			
Carborundum .. .. .	608	591	572
Pumice .. .. .	102	46	18
Emery .. .. .	622	530	464
Grindstones, etc.—natural .. .. .	2,280	2,276	1,800
do. carborundum .. .. .	55	50	34
do. emery, etc. .. .. .	214	255	161
Other abrasives.. .. .	8	5	4
Denmark—			
Emery, etc. .. .. .	94	114	134
Pumice .. .. .	134	196	205
Estonia—			
Grindstones, etc.—natural .. .. .	740	408	448
do. artificial .. .. .	18	18	15
Millstones .. .. .	70	55	52
Finland—			
Emery .. .. .	287	175	118
Pumice .. .. .	83	61	107
Other abrasives .. .. .	58	21	22
France—			
Pumice .. .. .	15,128	20,644	18,946
Millstones and grindstones .. .. .	227	434	186
Whetstones .. .. .	471	452	730
Corundum and ground emery .. .. .	3,490	4,130	3,798
Carborundum .. .. .	493	952	920
Other artificial abrasives .. .. .	673	1,528	596

(a) Information not available.

## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Germany—			
Emery .. .. .	3,438	3,909	3,519
Pumice, etc. .. .. .	7,023	6,924	5,759
Carborundum .. .. .	5,895	3,870	3,166
Other abrasives .. .. .	262	152	77
Hungary—			
Emery .. .. .	102	83	46
Millstones .. .. .	83	72	67
Grindstones .. .. .	1,349	1,034	970
Italy—			
Emery and corundum .. .. .	744	761	871
Artificial abrasives .. .. .	350	555	478
Pumice .. .. .	—	39	1
Whetstones, natural .. .. .	174	128	131
Grindstones, natural .. .. .	1,274	1,218	1,134
Millstones, natural .. .. .	165	284	165
do. artificial .. .. .	137	176	214
Jugoslavia—			
Millstones .. .. .	181	149	88
Grindstones, natural .. .. .	113	95	168
do. artificial .. .. .	170	189	147
Other abrasives .. .. .	280	397	218
Latvia—			
Emery .. .. .	29	30	22
Pumice .. .. .	23	22	28
Lithuania—			
Emery, etc. .. .. .	3	44	54
Netherlands—			
Emery .. .. .	2,988	3,070	2,940
Poland—			
Grindstones .. .. .	651	488	461
Millstones .. .. .	557	304	172
Other abrasives .. .. .	629	600	549
Portugal—			
Emery .. .. .	41	66	73
Russia (years ended Sept. 30)—			
Pumice .. .. .	4	44	160
Emery and corundum, ground .. .. .	38	25	90
Millstones, natural .. .. .	371	175	112
do. artificial .. .. .	186	322	868
Other abrasives, natural .. .. .	87	10	115
do. artificial .. .. .	2,080	1,257	1,732
Spain (total imports)—			
Emery .. .. .	87	179	86
Carborundum .. .. .	8	4	15

IMPORTS OF ABRASIVES (*Cont.*)

Importing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Sweden—			
Emery .. .. .	609	631	481
Rottenstone .. .. .	218	232	47
Carborundum, etc. .. .. .	150	125	(a)
Switzerland—			
Carborundum, etc., crude .. .. .	371	209	251
do. ground.. .. .	334	351	325
Millstones .. .. .	106	124	110
Grindstones .. .. .	768	841	883
Whetstones .. .. .	50	46	48
Algeria—			
Emery .. .. .	10	6	20
Pumice .. .. .	78	87	89
Grindstones and millstones .. .. .	55	32	274
Togoland—			
Abrasives .. .. .	18	11	(a)
Tunis—			
Emery and pumice .. .. .	198	50	37
Millstones .. .. .	284	276	36
Cuba (total imports)—			
Grindstones .. .. .	151	1,261	(a)
United States—			
Corundum, crude (total imports)	1,400	3,378	2,794
Emery, crude (total imports) .. .. .	4,846	5,717	3,796
Corundum and emery, ground .. .. .	151	389	(a)
Pumice .. .. .	9,910	8,633	5,810
Tripoli, etc. .. .. .	2,328	2,911	4,858
Grindstones .. .. .	1,583	1,680	765
Crude artificial abrasives .. .. .	50,261	67,653	50,013
Argentina—			
Emery .. .. .	391	408	313
Pumice .. .. .	81	98	101
Grindstones .. .. .	877	969	653
Oil-stones .. .. .	27	33	32
Brazil (total imports)—			
Emery and glass powder .. .. .	134	108	58
Chile—			
Emery and pumice .. .. .	53	33	64

(a) Information not available.

IMPORTS OF ABRASIVES (*Cont.*)

Importing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Colombia—			
Emery and pumice .. ..	12	10	(a)
Grindstones .. ..	36	20	(a)
Ecuador—			
Millstones and grindstones ..	244	69	50
Other abrasives .. ..	6	7	6
Peru—			
Emery and pumice .. ..	9	10	(a)
Grindstones .. ..	19	16	(a)
Venezuela—			
Emery and pumice .. ..	—	14	(a)
China—			
Corundum .. ..	39	44	33
French Indo-China—			
Emery, ground.. ..	234	317	(a)
Grindstones .. ..	51	30	(a)
Japan (total imports)—			
Abrasives .. ..	2,089	2,803	2,613
Grindstones, artificial .. ..	89	91	64
Netherlands East Indies—			
Emery .. ..	57	50	(a)
Syria and Lebanon—			
Emery .. ..	(a)	10	34
Turkey—			
Emery and carborundum, crude	10	7	31
Millstones and grindstones ..	387	660	172
Whetstones, pumice, etc. ..	137	123	42

(a) Information not available.



**ALUMINIUM****(Including Bauxite and Cryolite)****PRODUCTION OF BAUXITE****(Long tons)**

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Northern Ireland .. ..	2,285	2,322	2,037
British Guiana .. ..	197,718	216,652	146,996
India .. ..	14,667	9,044	2,514
Australia .. ..	193	546	(a)
<b>Total ..</b>	<b>215,000</b>	<b>229,000</b>	<b>152,000</b>
<b>FOREIGN COUNTRIES</b>			
France .. ..	626,000	632,865	598,835
Germany .. ..	5,000	7,141	—
Greece .. ..	295	6,181	1,296
Hungary .. ..	389,522	383,006	31,195
Italy .. ..	159,667	189,729	158,641
Jugoslavia .. ..	48,486	91,555	93,204
Rumania .. ..	643	911	667
Russia (years ended Sept. 30)	(a)	(a)	12,000
Spain .. ..	178	960	(a)
United States .. ..	375,426	365,777	330,612
Dutch Guiana (exports) ..	210,488	206,681	260,377
<b>Total ..</b>	<b>1,820,000</b>	<b>1,880,000</b>	<b>1,490,000</b>
<b>WORLD'S TOTAL ..</b>	<b>2,030,000</b>	<b>2,110,000</b>	<b>1,640,000</b>

Information regarding the production in Austria is not available.

(a) Information not available.

**PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND**

Year	Long tons
1928 .. ..	25,524
1929 .. ..	29,310
1930 .. ..	35,671

## ESTIMATED PRODUCTION OF ALUMINIUM

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	9,500	8,000	13,000
Canada .. ..	25,000	38,000	32,000
Total ..	34,500	46,000	45,000
FOREIGN COUNTRIES			
Austria .. ..	3,000	4,000	3,000
France .. ..	(c) 25,458	29,000	25,500
Germany .. ..	31,000	32,000	30,200
Italy (c) .. ..	3,561	7,257	7,842
Norway (c) .. ..	24,388	28,682	26,925
Russia (b) .. ..	(a)	(a)	200
Spain .. ..	(c) 7	(c) 1,000	1,200
Switzerland .. ..	21,800	19,000	20,800
United States .. ..	93,750	100,450	102,248
Total ..	203,000	221,000	218,000
WORLD'S TOTAL ..	238,000	267,000	263,000

(a) Information not available.

(b) Year ended April 30, 1931.

(c) Official figures.

## EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Alumina.. ..	15,454	20,586	13,654
Ingots, etc., alloy and scrap ..	5,888	5,638	4,124
Sheets, tubes, wire, etc. ..	3,831	3,774	3,744
Aluminium sulphates .. ..	13,362	14,654	11,052

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

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE (Cont.)			
Canada—			
Blocks, bars, scrap, etc. ..	18,928	34,101	20,571
British Guiana—			
Bauxite .. .. .	167,621	182,692	119,616
British India—			
Bauxite .. .. .	(a)	3,478	2,686
British Malaya (including re- exports)—			
Aluminium sulphate .. ..	2,600	3,379	2,627
Australia (including re-exports)—			
Aluminium (£ Australian) ..	(£38)	(£449)	(£1,203)
Aluminium sulphates .. ..	5	6	3
FOREIGN COUNTRIES			
Austria—			
Bauxite and cryolite .. ..	4,880	8	11
Crude and alloys .. .. .	3,974	3,918	2,964
Sheets, scrap, wire, etc. ..	220	176	37
Foil .. .. .	16	18	14
Aluminium sulphates .. ..	263	570	161
Belgium-Luxemburg E.U.—			
Bauxite, etc. .. .. .	2	2	33
Crude and scrap .. .. .	725	1,035	525
Sheets, wire, etc. .. .. .	26	69	28
Aluminium sulphates .. ..	173	2,974	7,306
Czechoslovakia—			
Cryolite .. .. .	8	9	5
Denmark—			
Refined cryolite .. .. .	15,263	17,604	15,604
France—			
Bauxite .. .. .	246,794	236,617	254,589
Alumina .. .. .	29,025	33,986	29,757
Ingots and scrap .. .. .	3,031	2,155	3,018
Sheets, wire, etc. .. .. .	2,476	2,013	2,031
Aluminium sulphates .. ..	29,984	22,754	21,085
Germany—			
Bauxite and cryolite .. ..	191	114	123
Crude and scrap .. .. .	3,516	4,050	5,526
Sheets, wire, castings, etc. ..	4,250	4,592	4,724
Aluminium sulphates, etc., in- cluding refined bauxite .. ..	86,899	93,386	94,157
Hungary—			
Bauxite .. .. .	180,589	98,961	82,590
Crude, scrap and alloys .. ..	25	38	33

(a) Information not available.

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Italy—			
Crude, scrap and alloys ..	183	119	633
Sheets, tubes, etc. and alloys ..	72	62	64
Aluminium sulphates .. ..	40	42	75
Jugoslavia—			
Bauxite .. .. .	39,584	66,198	59,634
Scrap .. .. .	3	3	2
Netherlands—			
Crude and scrap .. ..	373	371	409
Foil .. .. .	41	23	51
Aluminium sulphates .. ..	(a)	(a)	274
Norway—			
Ingots and scrap .. ..	16,637	29,230	23,302
Bars, sheets, tubes and wire ..	395	623	487
Poland—			
Crude and sheets .. ..	2	12	9
Russia (years ended Sept. 30)—			
Bauxite .. .. .	88	335	14
Spain (including re-exports)—			
Ingots and scrap .. ..	37	290	30
Sweden—			
Crude, sheets and strips .. ..	21	30	33
Aluminium sulphates .. ..	9,057	11,435	12,505
Switzerland—			
Alumina, etc. .. .. .	86	5	4
Blocks, ingots, etc., and scrap ..	14,807	13,002	9,087
ditto(alloys) .. .. .	1,696	2,270	1,642
Bars, sheets, tubes, wire and alloys .. .. .	1,817	1,324	1,262
Algeria—			
Ingots .. .. .	69	65	(a)
Greenland—			
Cryolite .. .. .	25,524	29,300	35,671
United States—			
Bauxite, etc. .. .. .	112,984	133,551	104,504
Ingots, scrap and alloys .. ..	1,067	274	271
Plates, sheets, etc. .. ..	5,954	7,330	7,465
Aluminium sulphates .. ..	20,280	23,739	22,549
Dutch Guiana—			
Bauxite .. .. .	210,488	206,681	260,377
China—			
Aluminium sulphates .. ..	2,389	3,109	2,266
Japan—			
Plates and sheets .. ..	163	405	684
Turkey—			
Ingots, sheets and alloys .. ..	13	11	24

(a) Information not available.

## IMPORTS OF ALUMINIUM, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Bauxite .. .. .	109,504	121,164	140,027
Cryolite .. .. .	1,547	1,714	2,621
Alumina .. .. .	1,060	909	1,082
Ingots, etc., alloy and scrap ..	13,368	22,289	18,310
Sheets, tubes, wire, etc. ..	5,117	6,440	5,420
Aluminium sulphates .. ..	26,999	26,959	23,887
Kenya and Uganda—			
Sheets and wire .. ..	39	60	91
Northern Rhodesia—			
Bars, etc. .. ..	—	68	—
Southern Rhodesia—			
Ingots and bars .. ..	—	71	—
Union of South Africa—			
Ingots, bars, sheet and foil ..	112	505	142
Aluminium sulphates .. ..	163	133	188
Canada—			
Bauxite .. .. .	(b) 116,860	126,999	95,338
Cryolite .. .. .	3,092	2,144	2,123
Alumina .. .. .	29,352	406	84
Ingots, rods, sheets, etc. ..	662	758	1,832
Leaf and foil .. .. .	(£47,827)	(£40,295)	(£47,911)
Aluminium sulphates .. ..	21,498	24,878	23,013
Newfoundland (years ended June 30)—			
Aluminium sulphates .. ..	(£978)	(£2,905)	(£8,846)
British India (total imports)—			
Ingots, blocks, bars, etc. ..	93	51	49
Sheets and circles .. ..	5,801	8,057	7,258
Aluminium sulphates .. ..	5,805	6,095	4,668
British Malaya (total imports)—			
Aluminium sulphates .. ..	4,141	4,879	3,116
Australia—			
Cryolite .. .. .	104	174	110
Pigs, ingots, blocks, etc. ..	347	679	253
Sheets, pipes, tubes, rods, etc.	559	631	848
Aluminium sulphates .. ..	81	92	217

(b) From April 1, 1928.

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

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE (Cont.)			
New Zealand—			
Bars, sheets, tubes, wire, etc...	27	48	243
Aluminium sulphates .. ..	156	32	32
FOREIGN COUNTRIES			
Austria—			
Bauxite .. .. .	636	396	621
Cryolite .. .. .	255	389	647
Crude and alloys .. .. .	948	759	301
Sheets, wire, scrap, etc. ..	610	603	522
Aluminium sulphates .. ..	308	186	352
Belgium-Luxemburg E.U.—			
Bauxite, etc. .. .. .	1,669	2,457	2,456
Crude and scrap .. .. .	1,607	3,062	1,448
Sheets, wire, etc. .. .. .	541	647	604
Aluminium sulphates .. ..	4,171	901	988
Bulgaria—			
Aluminium sulphates .. ..	370	326	(a)
Czechoslovakia—			
Cryolite .. .. .	487	510	315
Sheets and plates .. .. .	461	408	207
Denmark—			
Crude cryolite .. .. .	15,919	21,169	27,345
Crude .. .. .	123	145	221
Leaf .. .. .	100	80	114
Aluminium sulphates .. ..	1,382	1,368	1,478
Estonia—			
Aluminium sulphates .. ..	1,491	1,135	997
Finland—			
Crude and scrap .. .. .	14	26	21
Plates and sheets .. .. .	137	113	110
Aluminium sulphates .. ..	5,420	5,616	5,761
France—			
Alumina .. .. .	15	4	9
Ingots and scrap .. .. .	150	242	330
Sheets, wire, etc. .. .. .	105	178	299
Aluminium sulphates .. ..	30	73	51
Germany—			
Bauxite and cryolite .. ..	425,431	380,860	295,634
Crude and scrap .. .. .	14,548	14,021	9,536
Sheets, wire, etc. .. .. .	427	422	412
Aluminium sulphates, etc., including refined bauxite ..	1,766	2,889	87

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Greece—			
Aluminium .. .. .	21	46	49
Hungary—			
Crude, scrap and alloys ..	264	455	344
Bars, sheets and wire .. ..	72	51	32
Foil .. .. .	31	27	19
Aluminium sulphates .. ..	927	1,143	749
Italy—			
Alumina, etc. .. .. .	4,667	11,475	18,310
Crude, scrap and alloys ..	823	2,386	940
Sheets, tubes, powder and alloys .. .. .	909	861	579
Aluminium sulphates .. ..	5,498	6,348	5,047
Jugoslavia—			
Bauxite .. .. .	1	—	1,170
Crude aluminium .. .. .	19	22	24
Sheets, pipes and wire .. ..	138	57	80
Aluminium sulphates .. ..	336	299	203
Latvia—			
Ingots, sheets, scrap, etc. ..	66	121	90
Aluminium sulphates .. ..	697	1,191	1,040
Netherlands—			
Crude and scrap .. .. .	650	1,166	965
Foil .. .. .	393	258	146
Aluminium sulphates .. ..	(a)	(a)	5,611
Norway—			
Bauxite .. .. .	7,529	16,376	18,905
Cryolite .. .. .	2,347	2,265	2,028
Alumina .. .. .	44,276	51,301	48,725
Crude .. .. .	89	4	9
Bars, sheets, etc. .. .. .	237	255	193
Aluminium sulphates .. ..	4,743	4,547	4,466
Poland—			
Bauxite .. .. .	1	50	546
Crude and scrap .. .. .	668	706	439
Sheets and wire .. .. .	442	410	361
Sulphates .. .. .	184	144	107
Portugal—			
Aluminium and alloys .. ..	105	92	130
Aluminium sulphates .. ..	353	432	335

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Rumania—			
Crude and scrap .. ..	(a)	(a)	30
Sheets and wire .. ..	(a)	(a)	26
Aluminium sulphates .. ..	(a)	(a)	215
Russia (years ended Sept. 30)—			
Ingots, sheets, etc. .. ..	5,702	5,051	9,464
Spain (total imports)—			
Alumina .. ..	2,483	3,011	4,008
Ingots and scrap .. ..	1,250	67	153
Bars, sheets, tubes and wire .. ..	216	114	67
Aluminium sulphates .. ..	417	180	190
Sweden—			
Crude .. ..	1,742	1,585	2,113
Sheets and strips .. ..	455	367	460
Aluminium sulphates .. ..	718	794	1,686
Switzerland—			
Alumina, etc. .. ..	44,825	41,534	34,731
Blocks, ingots, etc., and scrap ditto (alloys) .. ..	719	501	1,935
Bars, sheets, tubes and wire .. ..	93	58	53
ditto (alloys) .. ..	64	41	54
Aluminium sulphates .. ..	86	38	31
Aluminium sulphates .. ..	311	271	255
Egypt—			
Aluminium sulphates .. ..	2,978	3,014	2,617
French West Africa—			
Aluminium .. ..	43	14	(a)
United States—			
Bauxite .. ..	350,111	380,812	415,058
Cryolite .. ..	6,906	7,778	8,315
Crude, scrap, etc. (b) .. ..	16,735	21,614	10,937
Sheets, bars, etc. (b) .. ..	12	10	22
Refined bauxite .. ..	250	128	114
Aluminium sulphates .. ..	498	1,127	936
Argentina—			
Ingots and sheets .. ..	214	242	409
Aluminium sulphates .. ..	3,250	3,947	4,630
Brazil (total imports)—			
Bars, sheets and wire .. ..	1,038	773	512
Chile—			
Bars and sheets .. ..	90	47	50
Aluminium sulphates .. ..	445	141	461



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

Importing Country and Description.	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Colombia—			
Ingots, bars, etc. .. ..	72	39	(a)
Aluminium sulphates .. ..	180	330	(a)
Peru—			
Aluminium sulphates .. ..	119	95	(a)
China—			
Sheets .. .. .	352	441	435
Formosa—			
Aluminium sulphates .. ..	106	175	(a)
French Indo-China—			
Aluminium .. .. .	4,386	88	(a)
Aluminium sulphates .. ..	131	237	(a)
Japan (total imports)—			
Cryolite .. .. .	874	1,015	2,949
Ingots, blocks, etc. .. ..	9,023	11,706	10,792
Netherlands East Indies—			
Ingots, sheets, wire and alloys	728	848	(a)
Aluminium sulphates .. ..	6,029	7,803	(a)
Syria and Lebanon—			
Aluminium sulphates .. ..	(a)	69	100
Turkey—			
Bars, sheets, wire and alloys ..	12	16	18
Aluminium sulphates .. ..	206	230	156

(a) Information not available.

(b) Total imports.

## ANTIMONY

## PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
Southern Rhodesia ..	49	—	34
India ( <i>ore</i> ).. .. .	370	77	3
Australia .. .. .	49	27	67
FOREIGN COUNTRIES			
Austria .. .. .	1,125	700	—
Czechoslovakia .. ..	1,189	684	378
France .. .. .	1,138	1,200	1,300
Greece .. .. .	—	67	(a)
Italy .. .. .	282	378	413
Jugoslavia .. .. .	127	156	2
Spain .. .. .	8	—	(a)
Morocco .. .. .	221	177	(a)
Mexico .. .. .	3,521	2,667	2,984
United States .. .. .	37	—	—
Bolivia (exports) .. ..	3,487	3,719	(a)
Peru .. .. .	138	106	(a)
China—			
<i>Crude</i> .. .. .	1,943	(b) 3,835	(b) 2,290
<i>Regulus</i> .. .. .	16,666	(b) 19,746	(b) 15,770
<i>Oxide</i> .. .. .	2,132	—	—
Turkey .. .. .	96	7	16
WORLD'S TOTAL	30,000	31,000	27,000

(a) Information not available.

(b) Exports.

## EXPORTS OF ANTIMONY, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Regulus .. .. .	516	836	534
Southern Rhodesia—			
Ore .. .. .	76	63	69
Australia (including re-exports)—			
Ore .. .. .	—	3	—
Regulus and alloys ( <i>£ Australian</i> )	(£428)	(£475)	(£500)
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	1,792	1,276	22
Regulus .. .. .	14	7	19
Belgium-Luxemburg E.U.—			
Ore .. .. .	18	30	144
Regulus .. .. .	1,658	1,130	714
Czechoslovakia—			
Regulus .. .. .	674	311	417
Compounds .. .. .	21	1	22
France—			
Ore .. .. .	81	2	396
Crude and regulus .. .. .	176	66	94
Oxide and sulphide .. .. .	1,060	901	496
Germany—			
Regulus and scrap .. .. .	427	200	146
Italy—			
Regulus .. .. .	1	2	2
Jugoslavia—			
Ore .. .. .	83	109	—
Regulus .. .. .	34	—	—
Netherlands—			
Regulus .. .. .	31	9	3
Poland—			
Ore and regulus .. .. .	22	—	—
Portugal—			
Ore .. .. .	—	25	—

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Spain (including re-exports)—			
Regulus .. .. .	25	—	—
Sweden—			
Ore .. .. .	78	119	175
Algeria—			
Ore .. .. .	552	305	—
Mexico—			
Ore ( <i>Sb content</i> ) .. .. .	820	298	1,511
Pig lead ( <i>Sb content</i> ) .. .. .	560	404	2,017
Antimonial silver ( <i>Sb content</i> )	—	996	—
Refined antimony ( <i>Sb content</i> )	2,142	966	2,181
Bolivia—			
Ore ( <i>Sb content</i> ) .. .. .	3,487	3,719	(a)
Peru—			
Ore ( <i>Sb content</i> ) .. .. .	176	109	(a)
China—			
Crude .. .. .	3,128	3,835	2,290
Regulus .. .. .	16,195	19,746	15,770
Oxide .. .. .	2,300	—	—
Japan—			
Regulus .. .. .	127	111	73
Turkey—			
Ore .. .. .	57	43	1,649

(a) Information not available.

## IMPORTS OF ANTIMONY, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore, including crude .. ..	1,165	451	326
Regulus .. .. .	3,674	5,331	3,619
Southern Rhodesia—			
Bars and ingots .. ..	—	5	—
Union of South Africa—			
Crude and regulus .. ..	96	20	104
Canada—			
Regulus .. .. .	683	780	582
Australia—			
Ore .. .. .	97	10	49
Crude and regulus .. ..	169	244	124
Sulphide .. .. .	9	6	4
New Zealand—			
Antimony .. .. .	23	18	32
FOREIGN COUNTRIES			
Austria—			
Regulus .. .. .	194	174	101
Belgium-Luxemburg E.U. —			
Ore .. .. .	3,314	992	6,213
Regulus .. .. .	191	246	227
Czechoslovakia—			
Regulus .. .. .	69	155	115
Compounds .. .. .	14	30	19
Denmark—			
Regulus and manufactures ..	61	87	102
Estonia—			
Crude and regulus .. ..	10	16	10
Finland—			
Ore .. .. .	11	5	10
France—			
Ore .. .. .	1,771	1,709	1,150
Crude and regulus .. ..	1,467	1,909	1,541
Oxide and sulphide .. ..	62	50	69
Germany—			
Ore, including crude .. ..	1,569	1,633	792
Regulus and scrap .. ..	3,321	3,060	2,369
Hungary—			
Regulus .. .. .	6	(a)	(a)
Italy—			
Regulus .. .. .	593	394	439

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Regulus .. .. .	22	4	58
Latvia—			
Ore .. .. .	3	—	—
Regulus .. .. .	24	12	10
Netherlands—			
Regulus .. .. .	163	152	141
Norway—			
Regulus .. .. .	41	35	38
Poland—			
Ore and regulus .. ..	169	187	127
Oxide and sulphide .. ..	90	86	99
Portugal—			
Crude and alloys .. ..	18	13	13
Sulphide .. .. .	10	10	14
Russia (years ended Sept. 30)—			
Regulus and oxide .. ..	257	412	1,732
Spain (total imports)—			
Regulus .. .. .	107	75	100
Sulphide .. .. .	50	54	53
Sweden—			
Ore .. .. .	267	378	344
Switzerland—			
Ore .. .. .	131	184	186
Algeria—			
Regulus .. .. .	21	17	26
United States—			
Ore ( <i>Sb content</i> ) .. ..	1,951	1,665	771
Regulus and crude .. ..	9,598	11,537	7,155
Argentina—			
Regulus and crude .. ..	115	101	108
Chile—			
Regulus .. .. .	15	170	38
Colombia—			
Crude and alloys .. ..	28	25	(a)
Regulus .. .. .	18	16	(a)
Peru—			
Regulus .. .. .	8	5	(a)
French Indo-China—			
Regulus .. .. .	(a)	(a)	69
Japan (total imports)—			
Antimony and regulus .. ..	1,900	1,856	1,640
Netherlands East Indies—			
Antimony .. .. .	26	69	(a)
Turkey—			
Ore and regulus .. ..	20	5	32

(a) Information not available.

## ARSENIC

## PRODUCTION OF ARSENIC

(Long tons)

Producing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Arsenical pyrites .. .. .	—	20	—
White arsenic and arsenic soot	1,293	953	579
Southern Rhodesia—			
White arsenic .. .. .	100	51	49
Union of South Africa—			
White arsenic .. .. .	17	33	15
Canada ( <i>sales</i> )—			
Gold concentrates ( <i>As<sub>2</sub>O<sub>3</sub></i> <i>content</i> ) .. .. .	632	684	792
White arsenic .. .. .	1,793	1,651	1,228
Federated Malay States—			
Arsenic .. .. .	(a)	304	225
Australia—			
White arsenic .. .. .	94	251	796
FOREIGN COUNTRIES			
Czechoslovakia			
Arsenical pyrites, etc. ( <i>As</i> <i>content</i> ) .. .. .	8	14	2
France—			
Ore .. .. .	(b) 4,087	46,549	47,898
White arsenic .. .. .	2,900	(a)	(a)
Germany—			
Ore ( <i>As content</i> ) .. .. .	1,593	1,728	1,829
Greece—			
White arsenic .. .. .	698	751	(a)
Jugoslavia—			
Ore .. .. .	—	—	7

(a) Information not available.

(b) Arsenic content.

PRODUCTION OF ARSENIC (*Cont.*)

Producing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Portugal— Ore .. .. .	132	123	(a)
Sweden— Ore ( <i>As content</i> ) .. ..	4,474	4,512	4,260
Algeria— Arsenate of lead ( <i>As content</i> ) .. .. .	300	305	347
Mexico— White arsenic, etc. ( <i>As content</i> ) .. .. .	8,532	9,512	9,919
United States— White arsenic .. .. .	12,646	14,826	15,229
Japan— White arsenic .. .. .	1,800	1,932	1,627
Turkey— Arsenic ore .. .. .	10	14	55

*Note.*—About 5,000 tons of ore were produced in Russia during 1927—later figures are not available.

(a) Information not available.



## EXPORTS OF ARSENIC, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic.. .. .	5	22	1
White arsenic .. .. .	136	120	52
Other compounds of arsenic ..	233	50	252
Southern Rhodesia—			
White arsenic .. .. .	93	65	24
Canada—			
White arsenic, etc. .. .. .	1,426	1,414	1,043
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Ore .. .. .	15	8	13
Sulphide .. .. .	30	28	21
Metallic arsenic .. .. .	277	142	94
White arsenic .. .. .	2,617	3,658	3,062
France—			
Ore .. .. .	237	125	2
Sulphide .. .. .	41	30	20
Metallic arsenic .. .. .	12	—	—
White arsenic .. .. .	2,441	2,300	2,673
Arsenate of lead .. .. .	107	72	69
Other arsenates .. .. .	303	433	908
Germany—			
White arsenic .. .. .	2,668	2,537	4,541
Greece—			
White arsenic .. .. .	682	619	593
Mexico—			
Arsenic content of white arsenic	8,532	9,512	9,889
United States—			
Arsenate of lead .. .. .	488	698	1,093
Arsenate of lime .. .. .	526	1,402	1,418
Japan—			
White arsenic .. .. .	2,071	1,702	1,322

## IMPORTS OF ARSENIC, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic .. ..	24	19	37
White arsenic .. ..	2,034	2,346	3,066
Other compounds .. ..	124	283	113
Union of South Africa—			
Sodium arsenate .. ..	633	573	983
Canada—			
Sulphide .. ..	42	8	11
White arsenic .. ..	149	55	5
Arsenate of lead .. ..	123	378	477
Other arsenates .. ..	—	199	293
British India (total imports)—			
Arsenic and its oxides.. ..	116	167	96
Australia—			
White arsenic and compounds	(£24,760)	933	1,099
New Zealand—			
White arsenic, etc. .. ..	40	65	62
Arsenates .. ..	22	23	40
FOREIGN COUNTRIES			
Austria—			
Sulphide .. ..	15	18	7
Belgium-Luxemburg E.U.—			
Ore .. ..	4,731	10,649	3,720
Sulphide .. ..	35	11	8
Metallic arsenic .. ..	4	8	6
White arsenic .. ..	94	112	57
Bulgaria—			
White arsenic .. ..	1	2	(a)
Czechoslovakia—			
Sulphide .. ..	63	63	39
Metallic arsenic .. ..	23	57	43
White arsenic .. ..	175	180	110
France—			
Ore .. ..	79	56	1
Sulphide .. ..	30	9	1
Metallic arsenic .. ..	10	31	26
White arsenic .. ..	136	164	284
Arsenate of lead .. ..	10	—	3
Germany—			
Ore .. ..	5,780	5,983	3,041
White arsenic .. ..	694	357	175

## IMPORTS OF ARSENIC (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Italy—			
Metallic arsenic .. ..	10	8	7
Arsenic compounds .. ..	410	410	502
Jugoslavia—			
Metallic and white arsenic ..	7	11	6
Sulphide.. ..	5	10	9
Latvia—			
White arsenic .. ..	9	10	11
Poland—			
Metallic arsenic .. ..	3	2	5
White arsenic .. ..	10	25	13
Sulphides .. ..	24	12	6
Portugal—			
Arsenates .. ..	1	3	5
White arsenic .. ..	10	20	8
Spain (total imports.)—			
Arsenic .. ..	11	39	39
Sweden—			
White arsenic .. ..	37	36	(a)
Algeria—			
Arsenates .. ..	232	342	520
Egypt—			
Arsenic .. ..	5	—	—
Madagascar—			
Arsenates .. ..	15	13	11
Mexico—			
White arsenic .. ..	511	(a)	(a)
United States—			
White arsenic .. ..	9,958	11,747	9,625
Sulphide.. ..	234	189	248
Argentina—			
White arsenic .. ..	279	245	273
Chile—			
White arsenic, etc. .. ..	22	44	40
Colombia—			
Metallic arsenic .. ..	2	3	(a)
White arsenic .. ..	5	1	(a)
Peru—			
Arsenate of lead .. ..	15	9	(a)
Arsenate of lime .. ..	470	1,085	(a)
Uruguay—			
White arsenic .. ..	668	316	(a)
Netherlands East Indies—			
Arsenate of lead .. ..	1,089	983	(a)
Turkey—			
Arsenic compounds .. ..	1	4	7

(a) Information not available.

## ASBESTOS

## PRODUCTION OF ASBESTOS

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Southern Rhodesia .. .. .	35,679	38,066	33,720
Union of South Africa (b) ..	24,197	28,717	23,083
Canada—			
Chrysotile .. .. .	265,452	294,804	251,019
<i>Crude</i> .. .. .	3,569	4,286	3,546
<i>Spinning stocks</i> .. .. .	12,545	17,514	12,886
<i>Shingle stocks</i> .. .. .	37,478	30,391	20,170
<i>Millboard and paper stocks</i> ..	63,519	82,046	71,544
<i>Fillers, floats and other short fibres</i> .. .. .	127,412	143,624	106,508
<i>Sand, gravel and crushed rock</i>	20,929	16,943	36,365
Actinolite .. .. .	62	27	30
Cyprus .. .. .	16,287	14,110	7,256
India .. .. .	157	318	33
Australia .. .. .	12	256	82
Total .. .. .	342,000	376,000	315,000
<b>FOREIGN COUNTRIES</b>			
Finland (Amphibole) .. .. .	2,241	1,600	(a)
France .. .. .	720	(a)	(a)
Italy .. .. .	4,724	2,586	710
Russia (years ended Sept. 30) ..	26,074	29,054	56,000
Mozambique .. .. .	—	—	16
United States (sales)—			
Amphibole .. .. .	1,999	1,046	(a)
Chrysotile .. .. .		1,771	3,262
Japan (estimated) .. .. .	1,000	1,000	1,000
Manchuria .. .. .	(a)	111	(a)
Total .. .. .	37,000	38,000	64,000
WORLD'S TOTAL .. .. .	379,000	414,000	379,000

(a) Information not available.

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

	1928.	1929.	1930.
Amosite ..	6,025 long tons.	8,268 long tons.	2,930 long tons.
Blue ..	4,592 " "	5,384 " "	4,894 " "
Chrysotile	10,859 " "	15,845 " "	9,392 " "

EXPORTS OF ASBESTOS  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Unmanufactured—			
Crude and fibre .. ..	709	589	691
Waste, including asbestic .. ..	85	14	19
Manufactured .. .. .	33,661	33,189	28,088
Southern Rhodesia—			
Unmanufactured .. ..	36,532	40,773	31,543
Manufactured .. .. .	(£4,146)	(£113)	(a)
Union of South Africa—			
Unmanufactured .. ..	10,868	10,329	10,756
Manufactured .. .. .	(£1,367)	(£1,192)	(£281)
Canada—			
Unmanufactured .. ..	115,350	128,326	93,091
Sand and waste .. .. .	121,187	132,415	117,177
Manufactured .. .. .	(£13,525)	(£23,289)	(£41,015)
British Malaya (including re- exports)—			
Manufactured .. .. .	497	202	124
Cyprus—			
Unmanufactured .. ..	11,579	13,796	5,399
Australia (including re-exports)—			
Packing (£ Australian) .. ..	(£2,337)	(£1,692)	(£935)
New Zealand—			
Manufactured .. .. .	165	—	—
FOREIGN COUNTRIES			
Austria—			
Unmanufactured .. ..	102	104	114
Spun and woven .. ..	137	146	128
Paper and board .. ..	142	154	140
Cement sheets .. .. .	143	82	54
Other manufactures .. ..	9	7	14
Belgium-Luxemburg E.U.—			
Unmanufactured .. ..	1,414	2,114	314
Spun and woven .. ..	95	131	114
Paper and board .. ..	1,686	646	484
Other manufactures .. ..	47	52	50

(a) Information not available.

EXPORTS OF ASBESTOS (*Cont.*)

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
<b>Czechoslovakia—</b>			
Unmanufactured .. ..	114	98	264
Spun and woven .. ..	94	63	28
Paper and board .. ..	1,173	561	554
Other manufactures .. ..	85	112	141
<b>France—</b>			
Manufactured .. .. .	1,597	1,191	691
<b>Germany—</b>			
Unmanufactured .. ..	467	574	392
Spun and woven .. ..	709	861	1,133
Paper and board .. ..	3,027	3,396	2,781
Other manufactures .. ..	540	582	570
<b>Italy—</b>			
Unmanufactured .. ..	4,862	2,860	349
Spun and woven .. ..	150	271	278
Paper and board .. ..	73	87	59
Cement products .. ..	11,393	12,433	10,762
Other manufactures .. ..	51	47	19
Netherlands .. .. .	6	287	227
<b>Poland—</b>			
Unmanufactured .. ..	47	8	—
Manufactured .. .. .	6	6	5
Russia (years ended Sept. 30) ..	10,988	12,710	14,961
<b>Sweden—</b>			
Unmanufactured .. ..	3	2	1
Manufactured .. .. .	8	9	7
<b>Switzerland (including mica)—</b>			
Unmanufactured .. ..	6	23	8
Manufactured .. .. .	450	485	437
<b>United States—</b>			
Unmanufactured .. ..	759	633	688
Spun and woven .. ..	738	884	797
Paper and board .. ..	726	759	856
Brake and clutch linings ..	(£292,041)	(£313,071)	(£302,770)
Pipe coverings and cement ..	2,198	3,076	2,976
Roofing squares .. ..	(£91,530)	(£123,620)	(£80,836)
Other manufactures .. ..	1,292	2,184	2,133
Japan .. .. .	(£15,504)	(£17,599)	(£18,883)

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

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Unmanufactured—			
Crude and fibre .. ..	25,403	24,920	21,075
Waste, including asbestic ..	1,743	2,981	2,486
Manufactured .. .. .	40,570	40,064	34,099
Kenya and Uganda—			
Manufactured .. .. .	719	1,039	122
Southern Rhodesia (total imports)—			
Cement sheets .. .. .	(£10,355)	(£5,755)	(a)
Other manufactures .. ..	(£1,031)	(£2,185)	(a)
South West Africa—			
Cement sheets .. .. .	(£2,098)	(£2,303)	(£2,092)
Other manufactures .. ..	(£105)	(£17)	(£36)
Tanganyika—			
Manufactured .. .. .	320	449	337
Union of South Africa—			
Packing .. .. .	(£27,063)	(£26,315)	(£27,957)
Cement products .. .. .	(£22,096)	(£36,349)	(£14,641)
Other manufactures .. ..	(£1,684)	(£708)	(£300)
Canada—			
Packing .. .. .	90	101	78
Other manufactures .. ..	(£149,393)	(£183,370)	(£162,541)
Newfoundland (years ended June 30)—			
Shingles .. .. .	(£14)	(£663)	(£3)
Other asbestos .. .. .	(£748)	(£1,008)	(£797)
British India (total imports)—			
Unmanufactured .. .. .	2	2	—
Packing .. .. .	(£32,512)	(£41,230)	(£35,653)
Other manufactures .. ..	(£224,030)	(£197,027)	(£171,320)
British Malaya—			
Manufactured .. .. .	11,039	9,624	6,951
Australia—			
Crude .. .. .	(a)	3,679	(a)
Packing (£ <i>Australian</i> ) .. ..	(£67,984)	(£74,186)	(£88,217)
New Zealand (£ <i>New Zealand</i> )—			
Sheets, slates and tiles .. ..	(£34,030)	(£29,992)	(£22,550)
Packing, brake lining, etc. ..	(£40,661)	(£49,228)	(£46,293)
Other manufactures .. ..	(£114)	(£422)	(£479)

(a) Information not available.

## IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description.	1928	1929	1930
<b>FOREIGN COUNTRIES</b>			
Austria—			
Unmanufactured .. ..	4,394	5,281	5,031
Spun and woven .. ..	42	48	36
Paper and board .. ..	39	53	31
Cement sheets .. ..	39	47	75
Other manufactures .. ..	38	37	31
Belgium-Luxemburg E.U.—			
Unmanufactured .. ..	17,862	22,087	18,750
Spun and woven .. ..	255	254	277
Paper and board .. ..	130	105	140
Other manufactures .. ..	10	12	11
Bulgaria—			
Manufactured .. ..	33	53	(a)
Czechoslovakia—			
Unmanufactured .. ..	9,614	10,580	4,779
Spun and woven .. ..	36	32	18
Paper and board .. ..	14	131	63
Other manufactures .. ..	55	68	63
Denmark—			
Unmanufactured .. ..	478	785	1,013
Spun and woven .. ..	15	8	14
Paper and board .. ..	278	280	339
Estonia—			
Manufactured .. ..	69	85	47
Finland (including mica)—			
Unmanufactured .. ..	199	350	339
Manufactured .. ..	392	494	250
France—			
Spun and woven .. ..	327	280	216
Paper and board .. ..	360	371	418
Germany—			
Unmanufactured .. ..	17,449	14,649	13,885
Spun and woven .. ..	94	77	39
Paper and board .. ..	146	107	98
Paint and cement products .. ..	210	240	155
Other manufactures .. ..	172	109	134
Hungary .. ..	2,121	(a)	(a)
Italy—			
Unmanufactured .. ..	6,317	6,220	6,472
Spun and woven .. ..	158	172	178
Paper and board .. ..	262	304	235
Cement products .. ..	33	64	75
Other manufactures .. ..	133	77	38



IMPORTS OF ASBESTOS (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Jugoslavia—			
Unmanufactured .. ..	1,249	1,136	1,029
Spun and woven .. ..	59	80	52
Paper and board .. ..	108	123	96
Other manufactures .. ..	12	13	18
Latvia—			
Unmanufactured .. ..	68	108	106
Manufactured .. ..	30	16	29
Lithuania .. ..	35	80	73
Netherlands .. ..	1,794	626	248
Norway .. ..	1,153	1,593	(b) 1,430
Poland—			
Unmanufactured .. ..	1,337	1,466	1,216
Board .. ..	74	147	51
Other manufactures .. ..	1,294	1,022	795
Portugal—			
Unmanufactured .. ..	84	49	58
Manufactured .. ..	60	71	93
Rumania—			
Unmanufactured .. ..	(a)	(a)	67
Manufactured .. ..	(a)	(a)	115
Russia (years ended Sept. 30) ..	101	142	1,085
Spain (total imports)—			
Unmanufactured .. ..	5,770	5,297	6,547
Spun and woven .. ..	112	102	104
Other manufactures .. ..	576	461	286
Sweden—			
Unmanufactured .. ..	644	1,029	1,044
Board .. ..	482	489	} 936
Other manufactures .. ..	194	184	
Switzerland (including mica)—			
Unmanufactured .. ..	1,055	1,298	800
Manufactured .. ..	667	643	719
Egypt .. ..	253	241	292
Costa Rica (total imports) ..	8	10	(a)
Mexico—			
Unmanufactured .. ..	703	560	384

(a) Information not available.

(b) Total imports.

IMPORTS OF ASBESTOS (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Panama .. .. .	114	53	(a)
United States—			
Unmanufactured—			
Crude (b) .. .. .	12,402	15,157	9,410
Mill fibre (b) .. .. .	80,235	85,164	61,620
Stucco and other unmanu- factured (b) .. .. .	113,251	133,988	115,293
Manufactured .. .. .	24,855	25,216	(c) 1,748
Argentina—			
Spun and woven .. .. .	261	134	160
Other manufactures .. .. .	1,208	590	578
Brazil (total imports)—			
Unmanufactured .. .. .	49	76	134
Manufactured .. .. .	3,110	4,129	2,888
Chile—			
Unmanufactured .. .. .	70	156	125
Manufactured .. .. .	277	173	111
Colombia—			
Unmanufactured .. .. .	221	200	(a)
Manufactured .. .. .	215	297	(a)
Ecuador—			
Manufactured .. .. .	7	18	59
Venezuela—			
Crude .. .. .	1	10	(a)
Sheets .. .. .	128	28	(a)
Cement .. .. .	1,668	769	(a)
Manufactured .. .. .	115	153	(a)
China—			
Manufactured .. .. .	693	726	595
Japan (total imports)—			
Unmanufactured .. .. .	10,196	10,147	10,017
Manufactured .. .. .	1,068	1,122	1,151
Netherlands East Indies—			
Unmanufactured .. .. .	20	6	(a)
Cement sheets .. .. .	6,854	11,128	(a)
Philippine Islands— (including manufactures) ..	£21,270	£18,462	£16,711
Siam (total imports)—			
Sheets .. .. .	272	405	945

(a) Information not available.

(b) Total imports.

(c) In addition manufactured asbestos valued at £32,886 was imported during the year.

## BARIUM MINERALS

### PRODUCTION OF BARIUM MINERALS

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Barytes, not ground .. ..	26,177	29,839	32,753
Witherite, not ground .. ..	8,044	9,157	8,095
Barytes and witherite—			
Ground, bleached .. ..	580	1,192	1,823
do. unbleached .. ..	15,100	16,907	16,034
Irish Free State .. ..	—	40	1,272
Southern Rhodesia .. ..	76	260	245
Canada (sales) .. ..	113	94	59
India .. ..	3,096	3,750	6,797
Australia .. ..	2,386	2,133	1,708
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	2,208	295	488
Belgium .. ..	728	—	(a)
France .. ..	29,600	(a)	(a)
Germany—			
Bavaria .. ..	23,495	23,036	17,494
Prussia .. ..	229,180	256,692	214,486
Saxony .. ..	1,379	1,900	(a)
Italy .. ..	26,688	25,545	19,014
Russia (years ended Sept. 30) ..	3,875	(a)	(a)
Spain (b) .. ..	3,802	5,714	(a)
Algeria .. ..	—	1,200	2,365
United States (sales) .. ..	240,664	247,562	209,761

(a) Information not available.

(b) In addition, 500 cubic metres of barytes were produced from quarries during 1928.

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

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Unground barytes .. .. .	3,409	594	235
Ground barytes and blanc fixe	1,899	2,454	1,975
Dioxide .. .. .	311	354	479
Barium compounds .. .. .	4,329	6,097	4,132
Irish Free State—			
Crude barytes .. .. .	—	—	1,012
Ground barytes .. .. .	—	—	223
FOREIGN COUNTRIES			
Austria—			
Barytes .. .. .	53	26	96
Belgium-Luxemburg E. U.—			
Chloride .. .. .	7,007	6,556	3,976
Sulphate .. .. .	120	212	243
Sulphide .. .. .	5	42	25
Czechoslovakia—			
Barytes .. .. .	1,671	1,622	751
Chloride .. .. .	2,095	2,259	1,107
Sulphate .. .. .	1,087	1,152	730
France—			
Barytes .. .. .	1,001	2,324	10,081
Witherite .. .. .	10	12	125
Carbonate .. .. .	25	59	115
Chloride .. .. .	202	159	301
Nitrate and sulphide .. .. .	9	8	6
Sulphate .. .. .	406	289	525
Germany—			
Barytes and celestite .. .. .	243,898	291,254	264,089
Carbonate .. .. .	10,823	8,645	7,213
Chloride .. .. .	854	2,461	3,299
Nitrate .. .. .	1,083	993	852
Sulphate .. .. .	7,310	8,031	6,853
Italy—			
Sulphate .. .. .	4,634	4,103	3,772
Oxide, carbonate and chloride	11	15	51
Netherlands—			
Barytes .. .. .	102	127	56

\* For lithopone see "Zinc," page 358.

## IMPORTS OF BARIUM MINERALS, ETC.\*

(Less Re-exports)

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Unground barytes .. ..	2,017	15,445	19,883
Ground barytes.. ..	34,494	31,181	27,364
Blanc fixe .. ..	2,314	2,148	1,718
Barium compounds .. ..	2,221	2,471	2,291
Union of South Africa—			
Barytes .. ..	780	330	281
Dioxide .. ..	11	17	11
Canada—			
Barytes .. ..	2,570	2,363	1,740
Blanc fixe .. ..	555	844	942
Dioxide .. ..	6	13	3
Trinidad and Tobago—			
Barytes .. ..	(a)	5,977	15,129
British India (total imports)—			
Barytes .. ..	1,771	2,826	5,787
Australia—			
Barytes .. ..	19	112	134
FOREIGN COUNTRIES			
Austria—			
Barytes .. ..	2,125	2,090	1,354
Carbonate and chloride .. ..	825	874	682
Belgium-Luxemburg E.U.—			
Chloride .. ..	25	37	67
Dioxide .. ..	104	112	90
Sulphate .. ..	2,770	2,352	1,286
Czechoslovakia—			
Crude barytes .. ..	8,865	11,363	5,492
Ground barytes .. ..	3,283	3,271	3,299
Carbonate .. ..	278	222	244
Sulphate .. ..	40	108	114
Denmark—			
Barytes .. ..	524	539	663
Carbonate .. ..	122	184	166
Chloride.. ..	42	21	41
Sulphate .. ..	14	17	10

\* For lithopone see "Zinc," page 363.

(a) Information not available.

IMPORTS OF BARIUM MINERALS (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Estonia—			
Barytes .. .. .	22	14	16
Witherite .. .. .	6	—	—
Finland—			
Barytes .. .. .	456	410	436
Chloride .. .. .	63	49	60
France—			
Barytes .. .. .	29,767	27,668	41,634
Witherite .. .. .	434	517	331
Carbonate .. .. .	2,103	1,744	1,253
Chloride .. .. .	1,881	3,000	2,554
Nitrate and sulphide .. .. .	98	95	87
Sulphate .. .. .	627	727	946
Germany—			
Barytes and celestite .. .. .	5,369	3,614	3,097
Carbonate .. .. .	7	89	—
Sulphate .. .. .	25	24	61
Hungary—			
Ground barytes .. .. .	1,126	1,184	1,109
Sulphate .. .. .	87	120	95
Italy—			
Carbonate .. .. .	269	380	243
Chloride .. .. .	648	572	275
Oxide and dioxide .. .. .	245	222	86
Sulphide .. .. .	—	12	2
Sulphate .. .. .	936	1,074	980
Jugoslavia—			
Barytes and witherite .. .. .	—	—	65
Ground barytes .. .. .	435	517	598
Chloride .. .. .	162	312	396
Latvia—			
Barytes .. .. .	143	84	38
Chloride .. .. .	26	15	13
Sulphate .. .. .	10	17	25
Lithuania—			
Barytes and witherite .. .. .	31	42	46

IMPORTS OF BARIUM MINERALS (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Netherlands—			
Barytes .. .. .	22,920	41,974	34,370
Poland—			
Barytes .. .. .	4,693	6,298	2,429
Witherite .. .. .	110	30	—
Carbonate .. .. .	126	48	62
Chloride .. .. .	55	1	12
Oxide .. .. .	98	50	40
Sulphate .. .. .	268	171	129
Portugal—			
Sulphate .. .. .	(a)	(a)	498
Dioxide .. .. .	14	4	8
Rumania—			
Carbonate .. .. .	(a)	(a)	10
Chloride .. .. .	(a)	(a)	135
Sulphate .. .. .	(a)	(a)	40
Russia (years ended Sept. 30)—			
Barytes, witherite and salts ..	72	224	162
Sweden—			
Barytes and witherite.. ..	828	1,249	1,150
Algeria—			
Barytes .. .. .	88	50	15
Chloride .. .. .	74	59	65
Sulphate .. .. .	76	118	81
Egypt—			
Barytes .. .. .	—	11	(a)
United States—			
Barytes .. .. .	55,147	76,544	46,528
Witherite .. .. .	3,849	3,907	2,287
Ground barytes .. .. .	2,766	2,611	2,081
Sulphate .. .. .	3,286	3,126	2,673
Barium compounds .. .. .	6,642	3,639	2,994
Argentina—			
Barytes .. .. .	2,347	3,224	2,890
Sulphate .. .. .	31	191	69

(a) Information not available.

IMPORTS OF BARIUM MINERALS (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Barytes .. .. .	44	1	—
Chloride .. .. .	36	70	56
Venezuela—			
Barytes .. .. .	(a)	2,903	(a)
Netherlands East Indies—			
Chloride .. .. .	19	16	(a)
Turkey—			
Barium compounds .. ..	20	13	17

(a) Information not available.



## BISMUTH

## PRODUCTION OF BISMUTH ORE, ETC.

(Cwt.)

Producing Country and Description	1928	1929	1930
BRITISH EMPIRE			
Canada— Metal .. .. .	125	1,735	114
India— Ore .. .. .	82 lb.	88 lb.	1
Australia— Ore, etc. .. .. .	152	66	83
FOREIGN COUNTRIES			
Czechoslovakia— Ore ( <i>Bi content</i> ) .. .. .	12	75	—
Germany (Saxony)— Bismuth-cobalt-nickel ore ..	1,610	940	(a)
Spain— Ore .. .. .	2,539	2,323	(a)
Metal .. .. .	469	219	(a)
Argentina— Ore .. .. .	417	145	(a)
Bolivia (exports)— Ore and bars ( <i>Bi content</i> ) ..	2,679	2,974	(a)
Peru— Ore ( <i>Bi content</i> ).. .. .	—	613	(a)
Japan— Metal .. . . .	633	984	1,079

(a) Information not available.

Bismuth is also recovered as a by-product in the refining of lead and zinc in the United States.

## EXPORTS OF BISMUTH, ETC.

*(Domestic Produce)*

(Cwt.)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom— Bismuth .. .. .	771	1,004	1,449
Australia (including re-exports)— Ore .. .. .	100	1	1
FOREIGN COUNTRIES			
France— Bismuth .. .. .	12	—	28
Bismuth salts .. .. .	307	409	917
Germany— Bismuth salts .. .. .	1,320	1,695	1,963
Italy— Bismuth salts .. .. .	30	49	15
Spain (including re-exports)— Bismuth .. .. .	406	1,644	545
Argentina— Ore .. .. .	460	450	207
Bolivia— Ore, etc. ( <i>Bi content</i> ) .. .. .	2,679	2,974	(a)
Peru— Ore ( <i>Bi Content</i> )	—	894	(a)

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore .. .. .	1,707	1,673	820
Bismuth.. .. .	327	371	4,075
Canada—			
Bismuth.. .. .	30	24	20
Bismuth salts .. .. .	(£7,534)	(£7,481)	(£8,870)
Australia—			
Bismuth salts .. .. .	156	191	224
New Zealand—			
Bismuth salts (£ New Zealand)	(£3,190)	(£3,051)	(£3,965)
<b>FOREIGN COUNTRIES</b>			
Estonia—			
Bismuth salts .. .. .	10	7	14
France—			
Bismuth .. .. .	1,136	1,549	1,587
Bismuth salts .. .. .	8	32	73
Germany—			
Bismuth salts .. .. .	30	104	24
Italy—			
Bismuth salts .. .. .	144	154	148
Yugoslavia—			
Ore .. .. .	16	—	—
Latvia—			
Bismuth salts .. .. .	26	28	36
Poland—			
Bismuth.. .. .	49	20	4
Bismuth salts .. .. .	161	152	186
Portugal—			
Bismuth salts .. .. .	149	288	52
Russia (years ended Sept. 30)—			
Bismuth.. .. .	1,142	1,220	960
Spain (total imports)—			
Bismuth .. .. .	20	—	—
Bismuth salts .. .. .	172	135	193
United States—			
Bismuth.. .. .	369	335	218
Bismuth salts .. .. .	73	32	6
Argentina—			
Bismuth.. .. .	59	65	68
Bismuth salts .. .. .	231	264	294
Chile—			
Bismuth salts .. .. .	46	83	95
Peru—			
Bismuth salts .. .. .	14	23	(a)
Turkey—			
Bismuth salts .. .. .	23	40	38

(a) Information not available.

**BORATES**

## PRODUCTION OF BORATES

(Long tons)

Producing Country and Description	1928	1929	1930
BRITISH EMPIRE			
India—			
Borates .. .. .	15 cwt.	7 cwt.	—
FOREIGN COUNTRIES			
Germany—			
Boracite .. .. .	29	53	38
Italy—			
Crude boric acid .. .. .	3,685	4,714	4,750
Russia (years ended Sept. 30)—			
Borax .. .. .	3,021	(a)	(a)
Boric acid .. .. .	517	(a)	(a)
United States—			
Crude borates .. .. .	117,000	151,670	158,357
Argentina—			
Borate of calcium .. .. .	554	921	620
Chile—			
Borate of calcium .. .. .	18,635	—	—
Peru—			
Borates .. .. .	263	—	(a)
Turkey—			
Borates .. .. .	14,707	13,314	5,370

(a) Information not available.

EXPORTS OF BORATES  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Borates .. .. .	9	53	1
Borax .. .. .	3,647	3,515	2,225
Boric acid .. .. .	1,089	1,276	696
British India—			
Borax .. .. .	54	117	49
FOREIGN COUNTRIES			
Austria—			
Borax .. .. .	328	143	77
Boric acid .. .. .	16	4	7
Belgium-Luxemburg E.U.—			
Borax .. .. .	390	519	192
Boric acid .. .. .	1	6	28
Czechoslovakia—			
Borax and boric acid .. .. .	9	76	19
France—			
Borax and borates .. .. .	989	902	802
Perborate of sodium .. .. .	186	254	506
Boric acid .. .. .	1,167	2,150	1,783
Germany—			
Borax and boric acid .. .. .	1,042	1,648	1,774
Italy—			
Borax .. .. .	720	546	1,352
Boric acid .. .. .	1,309	912	1,251
Netherlands—			
Borax .. .. .	199	545	700
Sweden—			
Borax and boric acid .. .. .	4	1	1
United States—			
Borax .. .. .	60,582	71,325	74,046
Boric acid .. .. .	1,510	2,323	1,252
Argentina—			
Borate of calcium .. .. .	49	67	82
Chile—			
Borate of calcium .. .. .	16,482	4,190	—
Peru—			
Borate of calcium .. .. .	257	—	(a)
Turkey—			
Borates .. .. .	(b)	(b)	(b)

(a) Information not available.

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

	1928	1929	1930
United Kingdom .. .. .	2,200	2,293	1,440
France .. .. .	3,510	5,220	(a)

## IMPORTS OF BORATES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Borates .. .. .	16,473	10,173	7,889
Borax .. .. .	7,258	11,137	10,802
Boric acid .. .. .	1,571	2,088	1,764
Irish Free State—			
Boric acid .. .. .	26	24	19
Southern Rhodesia—			
Borax .. .. .	33	32	(a)
Boric acid .. .. .	2	2	(a)
Union of South Africa—			
Borax .. .. .	246	275	225
Boric acid .. .. .	66	95	93
Canada—			
Borax .. .. .	993	1,599	2,034
Boric acid .. .. .	443	570	367
British India (total imports)—			
Borax and boric acid .. .. .	2,042	1,577	1,286
Australia—			
Borax .. .. .	982	1,470	811
Boric acid .. .. .	308	393	294
New Zealand—			
Borax .. .. .	160	209	177
Boric acid .. .. .	36	57	47
FOREIGN COUNTRIES			
Austria—			
Borax .. .. .	1,101	559	236
Boric acid .. .. .	3	5	4
Belgium-Luxemburg E.U.—			
Borax .. .. .	3,309	2,920	2,156
Boric acid .. .. .	262	240	220
Bulgaria—			
Borax and boric acid .. .. .	22	49	(a)
Czechoslovakia—			
Borax .. .. .	3,731	2,704	1,339
Boric acid .. .. .	183	285	205
Denmark—			
Borates .. .. .	—	98	61
Borax and boric acid .. .. .	147	187	157

## IMPORTS OF BORATES (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Estonia—			
Refined borax and boric acid..	14	15	11
Finland—			
Borax .. .. .	102	88	84
Boric acid .. .. .	26	18	22
France—			
Borax and borates .. .. .	12,681	10,463	12,552
Perborate of sodium .. .. .	98	110	119
Boric acid .. .. .	475	404	316
Germany—			
Borates .. .. .	17,581	20,400	21,828
Borax and boric acid .. .. .	7,556	9,316	8,566
Hungary—			
Borax and borates .. .. .	455	238	77
Boric acid .. .. .	41	18	26
Italy—			
Borax .. .. .	280	59	23
Boric acid .. .. .	2	(6 cwt.)	1
Jugoslavia—			
Refined borax .. .. .	554	587	891
Boric acid .. .. .	8	8	12
Latvia—			
Borax and boric acid .. .. .	45	33	37
Lithuania—			
Borax and boric acid .. .. .	15	13	15
Netherlands—			
Borax .. .. .	1,819	2,447	3,772
Norway—			
Borax .. .. .	60	86	78
Boric acid .. .. .	27	75	56
Poland—			
Boron minerals .. .. .	1,585	865	667
Borax .. .. .	738	681	522
Boric acid .. .. .	15	61	5
Portugal—			
Borates .. .. .	381	259	336
Boric acid .. .. .	39	24	35
Rumania—			
Borax .. .. .	(a)	(a)	159
Boric acid .. .. .	(a)	(a)	41
Russia (years ended Sept. 30)—			
Boron minerals.. .. .	2,705	2,522	3,975
Spain (total imports)—			
Boric acid .. .. .	62	38	76
Borates .. .. .	399	347	582

(a) Information not available.

IMPORTS OF BORATES (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Sweden—			
Borax .. .. .	608	727	595
Boric acid .. .. .	119	127	129
Switzerland—			
Borax .. .. .	427	675	865
Egypt—			
Borax .. .. .	60	44	38
Tunis—			
Borax .. .. .	7	7	(a)
United States—			
Borates .. .. .	4,500	4,545	(a)
Borax, refined .. .. .	94	3	7
Boric acid .. .. .	181	3	69
Argentina—			
Borax .. .. .	20	187	74
Boric acid .. .. .	4	24	31
Chile—			
Borates .. .. .	78	14	(a)
Boric acid .. .. .	10	25	24
Colombia—			
Borax .. .. .	15	17	(a)
Boric acid .. .. .	34	50	(a)
Ecuador—			
Boric acid .. .. .	4	5	3
Borax .. .. .	4	3	3
Peru—			
Borax .. .. .	20	13	(a)
Boric acid .. .. .	13	19	(a)
Uruguay—			
Borax .. .. .	9	7	(a)
Venezuela—			
Borax .. .. .	4	2	(a)
Boric acid .. .. .	9	18	(a)
China—			
Borax .. .. .	926	1,385	677
Boric acid .. .. .	93	147	118
French Indo-China—			
Refined borax .. .. .	107	103	(a)
Japan (total imports)—			
Borax .. .. .	4,221	4,289	3,561
Boric acid .. .. .	864	1,128	803
Netherlands East Indies—			
Borax .. .. .	71	62	(a)
Syria and Lebanon—			
Boric acid .. .. .	(a)	8	7
Turkey—			
Boric acid .. .. .	9	9	(a)

(a) Information not available.



**CADMIUM**

PRODUCTION OF CADMIUM  
(Lb. avdp.)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Canada .. .. .	491,894	773,976	456,600
Australia .. .. .	385,616	445,907	509,598
<b>FOREIGN COUNTRIES</b>			
Belgium (exports) ..	11,464	5,071	11,244
France .. .. .	103,600	(a)	(a)
Germany (estimated) ..	100,000	100,000	100,000
Italy (estimated) .. ..	(a)	(a)	26,500
Poland .. .. .	9,288	7,901	(a)
United States—			
Metal .. .. .	1,875,896	2,481,427	2,777,762
Compounds (metal content) .. .. .	239,900	433,300	316,300
Mexico (b) .. .. .	779,431	1,413,092	1,207,564

Cadmium is also produced in Russia and Sweden but no statistics are available.

(a) Information not available.

EXPORTS OF CADMIUM, ETC.

(Domestic Produce)

(Lb. avdp.)

Exporting Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	1,693	5,197	14,516
Australia (including re-exports) .. .. .	492,912	370,384	347,872
<b>FOREIGN COUNTRIES</b>			
Belgium-Luxemburg E.U.	11,464	5,071	11,244
France .. .. .	29,542	31,967	34,392
Poland .. .. .	4,189	1,543	88,626
Mexico (b) .. .. .	779,431	1,413,092	1,207,564

(b) Recorded as cadmium, but probably zinc-cadmium fume exported to the United States for treatment. See imports into United States, page 56.

## IMPORTS OF CADMIUM

*(Less Re-exports)*

(Lb. avdp.)

Importing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	143,005	349,739	253,396
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.	13,669	7,937	10,582
France .. .. .	165,567	187,393	161,599
Poland .. .. .	3,307	2,645	10,141
United States .. ..	233,101	214,307	40,105
Argentina (cadmium salts)	106	485	280
Chile (cadmium salts) ..	354	139	466
Colombia .. .. .	4	(a)	(a)
Peru (including cadmium salts) .. .. .	7	31	(a)
Turkey—			
Cadmium .. .. .	(a)	75	—
do. salts .. .. .	(a)	(a)	92

(a) Information not available.

## CHINA CLAY

 PRODUCTION OF CHINA CLAY  
 (Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	787,296	826,046	716,319
Canada .. ..	4	—	—
India .. ..	18,783	16,657	19,116
Unfederated Malay States	985	741	410
Australia .. ..	11,044	6,082	4,500
FOREIGN COUNTRIES			
Bulgaria .. ..	2,699	3,615	5,656
Belgium (e) .. ..	10,492	11,072	(a)
Czechoslovakia (estimated)	400,000	450,000	400,000
Denmark—			
Crude .. ..	30,600	} 21,341	29,406
Washed or pressed ..	9,100		
France .. ..	122,600	(a)	(a)
Germany—			
Bavaria .. ..	373,476	376,953	366,712
Prussia .. ..	14,005	15,984	12,844
Saxony—			
Crude .. ..	52,863	48,196	(a)
Washed .. ..	62,206	64,268	(a)
Italy—			
Crude .. ..	14,115	14,688	12,308
Washed (c) .. ..	4,378	5,379	3,156
Kaolinic earth .. ..	13,600	16,300	10,000
Portugal .. ..	4,147	3,818	4,601
Rumania (d) .. ..	7,186	7,376	6,666
Russia (years ended Sept.30)	77,585	(a)	(a)
Spain (g) .. ..	2,050	2,034	(a)
Algeria .. ..	2,000	1,344	2,523
United States (f) .. ..	442,984	462,651	455,673
Argentina .. ..	—	—	369
Japan—			
Porcelain stones and earth .. ..	373,398	(a)	(a)
Clay for paper manufac- ture .. ..	38,573	(a)	(a)
Korea .. ..	5,714	8,586	8,134
Southern Manchuria (esti- mated) .. ..	23,000	23,000	23,000

Large quantities of china clay are also produced in China.

(a) Information not available.

(c) This is not additional, being derived from 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) 9,525 and 3,350 cubic metres of kaolinic sand were also produced in quarries during 1928 and 1929 respectively.

## EXPORTS OF CHINA CLAY

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

Exporting Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom <i>(b)</i> ..	597,524	639,358	529,026
British Malaya <i>(c)</i> ..	303	335	300
FOREIGN COUNTRIES			
Austria .. .. .	10,867	13,225	14,100
Belgium-Luxemburg E.U. (including other clays) ..	1,702	685	2,229
Bulgaria (including other clays) .. .. .	404	821	<i>(a)</i>
Czechoslovakia .. ..	303,436	306,899	272,658
Denmark .. .. .	2,936	2,985	3,514
France .. .. .	9,979	8,735	9,894
Germany .. .. .	54,775	62,953	59,396
Italy .. .. .	102	95	114
Jugoslavia .. .. .	90	45	56
Netherlands (including pipe clay) .. .. .	420	1,000	805
Poland .. .. .	109	437	—
Portugal .. .. .	59	128	221
Russia .. .. .	5,804	16,882	16,213
Sweden .. .. .	592	582	46
Switzerland (including other clays) .. ..	9,966	8,334	9,750
Algeria .. .. .	1,661	1,410	2,793

*(a)* Information not available.*(b)* Including Cornish or china stone.*(c)* Including re-exports.

## IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom (b) ..	1,166	474	497
Union of South Africa (b)	79	68	66
Canada .. .. .	20,641	22,213	20,636
Newfoundland (c) ..	3,540	4,180	4,069
British India (total imports)	9,295	22,248	16,948
British Malaya .. ..	114	90	19
FOREIGN COUNTRIES			
Austria .. .. .	19,316	18,018	9,820
Belgium-Luxemburg E.U. (including other clays) ..	55,231	62,025	64,442
Bulgaria (including other clays) .. .. .	183	349	(a)
Czechoslovakia .. ..	6,367	7,139	4,767
Denmark—			
Crude .. .. .	1,058	913	747
Washed .. .. .	4,851	5,096	6,075
Estonia .. .. .	(a)	2,485	2,882
Finland .. .. .	15,328	10,762	11,382
France .. .. .	63,029	82,139	73,494
Germany .. .. .	293,088	314,507	277,735
Italy .. .. .	36,564	40,346	45,370
Jugoslavia .. .. .	4,154	3,888	5,011
Latvia .. .. .	1,502	568	1,894
Netherlands (including pipe clay) .. .. .	72,347	103,945	104,009
Poland .. .. .	26,458	23,064	20,901
Portugal .. .. .	212	290	164
Sweden .. .. .	25,793	29,038	25,333
Switzerland (including other clays) .. ..	97,142	121,796	120,368
United States .. ..	274,472	249,921	210,911
Colombia .. .. .	14	11	(a)
Argentina .. .. .	2,128	1,560	2,647
Netherlands East Indies ..	947	615	(a)

(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	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Southern Rhodesia ..	195,918	261,711	202,385
Union of South Africa ..	31,255	62,964	13,508
Cyprus (shipments) ..	—	2,444	1,508
Canada .. .. .	—	113	2
India .. .. .	45,455	49,565	50,684
Australia .. .. .	—	129	168
Total ..	273,000	377,000	268,000
<b>FOREIGN COUNTRIES</b>			
Greece .. .. .	20,622	23,832	16,845
Jugoslavia .. .. .	16,417	42,343	50,583
Russia (years ended Sept.30)			
Not requiring concentration .. .. .	23,188	28,000	65,028
Requiring concentration .. .. .	17,500	(a)	(a)
<i>Concentrates produced</i> .. .. .	5,882	(a)	(a)
Cuba .. .. .	28,650	39,760	(c) 35,896
United States .. .. .	368	543	80
Brazil (exports) .. .. .	20	69	10
French Indo-China .. .. .	—	—	1,500
Japan .. .. .	9,653	9,000	11,169
Turkey .. .. .	11,662	9,919	27,652
New Caledonia .. .. .	50,021	49,900	52,676
Total ..	170,000	200,000	260,000
<b>WORLD'S TOTAL</b>	<b>440,000</b>	<b>580,000</b>	<b>530,000</b>

(a) Information not available.

(b) Exports.

(c) Imports into the United States.

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

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	231	464	269
Chromates of potash .. ..	1,412	903	796
Chromates of soda .. ..	2,072	1,897	1,553
Southern Rhodesia—			
Ore .. .. .	162,269	251,145	171,695
Union of South Africa—			
Chrome, iron and pyrites ..	23,365	44,010	22,670
British India (b)—			
Ore .. .. .	31,209	18,159	22,498
Cyprus—			
Ore .. .. .	—	829	—
FOREIGN COUNTRIES			
Austria—			
Chrome alum .. .. .	175	189	112
Belgium-Luxemburg E.U.—			
Chromates of potash and soda	1,640	1,975	864
Czechoslovakia—			
Ore .. .. .	—	—	122
Chromates of potash and soda	43	13	48
France—			
Chromates of potash and soda	30	52	268
Ferro-chrome .. .. .	(a)	320	140
Chrome-alum .. .. .	5	31	27
Germany—			
Chrome and nickel ore ..	93	297	624
Chromates of potash and soda, and oxides of chromium ..	8,512	6,560	6,088

(a) Information not available.

(b) Excluding chrome ore mined in British India, but exported via the Portuguese port of Mormugao—1928, 14,099 tons—1929, 14,213 tons.

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Greece— Ore .. .. .	16,989	19,803	24,048
Jugoslavia— Ore .. .. .	9,102	21,107	32,538
Netherlands— Chromium compounds ..	16	28	21
Norway— Ferro-chrome .. .. .	2,757	3,809	4,076
Russia (years ended Sept. 30)— Ore .. .. .	2,958	5,289	16,821
Switzerland— Ferro-chrome, including ferro- silicon.. .. .	5,709	6,375	4,513
United States— Chromates of soda .. ..	3,880	2,614	2,202
Brazil— Ore .. .. .	20	69	10
Turkey— Chromium compounds ..	10	2,677	—
New Caledonia— Ore .. .. .	55,803	58,213	52,676

(a) Information not available.



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

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	22,373	27,099	16,639
Chromates of potash .. .. .	60	75	54
Chromates of soda .. .. .	2,520	2,523	1,759
Canada—			
Bichromate of potash .. .. .	87	75	36
Bichromate of soda .. .. .	934	801	880
British India (total imports)—			
Bichromate of potash .. .. .	282	268	198
Bichromate of soda .. .. .	842	627	606
Australia —			
Ore .. .. .	18	3	38
Bichromate of potash .. .. .	2	56	—
FOREIGN COUNTRIES			
Austria—			
Chrome alum and sulphate .. .. .	57	64	101
Chromate of potash and soda .. .. .	415	280	216
Belgium-Luxemburg E. U.—			
Chromates of potash and soda .. .. .	426	185	184
Bulgaria—			
Chromate of potash .. .. .	50	22	(a)
Czechoslovakia—			
Ore .. .. .	2,405	3,361	1,813
Chromates of potash and soda .. .. .	1	3	4
Denmark—			
Chromate of potash .. .. .	14	12	28
Chromate of soda .. .. .	83	87	58
Estonia—			
Chromates .. .. .	16	11	18
Finland—			
Chromates of potash .. .. .	57	59	69
Chromates of soda .. .. .	23	16	16
Chrome alum and sulphate .. .. .	38	40	48
France—			
Chromates of potash and soda .. .. .	2,792	3,000	2,330
Ferro-chrome .. .. .	597	1,522	1,372
Chrome alum .. .. .	190	356	546
Germany—			
Ore .. .. .	45,873	41,036	28,432
Chromates of potash and soda, and oxides of chromium .. .. .	207	194	276
Hungary—			
Chromates of potash, soda and ammonia .. .. .	245	300	381
Italy—			
Chromates of potash, soda and ammonia .. .. .	480	453	217

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Chromates of potash and soda	21	67	50
Latvia—			
Chrome alum .. .. .	92	57	82
Chromates of potash and soda	13	16	23
Netherlands—			
Chromium compounds ..	1,252	1,104	1,318
Norway—			
Ore .. .. .	12,440	11,563	19,485
Poland—			
Ore .. .. .	46	525	431
Chrome alum .. .. .	89	54	21
Chromates .. .. .	570	625	531
Portugal—			
Chromate of potash .. ..	28	15	18
Chromate of soda .. ..	21	13	30
Chrome alum .. .. .	5	18	36
Russia (years ended Sept. 30)—			
Chromium compounds ..	16	3	171
Spain (total imports)—			
Chromates .. .. .	1,118	588	755
Sweden—			
Ore .. .. .	27,634	23,842	25,862
Chrome alum .. .. .	415	384	614
Switzerland—			
Ore (estimated) .. .. .	4,800	5,500	4,300
Ferro-chrome, including ferro-silicon.. .. .	1,482	1,700	1,657
Egypt—			
Bichromate of potash and soda	427	388	283
United States—			
Ore .. .. .	216,592	317,630	330,531
Metals and alloys .. ..	717	667	162
Argentina—			
Bichromate of potash .. ..	119	238	172
Bichromate of soda .. ..	127	180	47
Chile—			
Bichromate of potash .. ..	45	78	47
Colombia—			
Chrome alum .. .. .	127	185	(a)
Chromates of potash and soda	374	414	(a)
Peru—			
Chromium compounds ..	216	66	(a)
Japan (total imports)—			
Bichromate of potash .. ..	446	237	329
Bichromate of soda .. ..	1,339	784	365
Turkey—			
Chromium compounds.. ..	39	126	30

(a) Information not available.

**COAL, COKE AND BY-PRODUCTS.**

PRODUCTION OF COAL  
(Including Brown Coal and Lignite)  
(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Anthracite .. ..	5,521,570	6,364,036	6,400,705
Bituminous .. ..	231,950,361	251,542,766	237,481,119
Lignite .. ..	640	322	—
Nigeria .. ..	359,316	344,937	347,842
Southern Rhodesia ..	1,077,557	1,020,446	923,915
Union of South Africa..	12,407,539	12,812,790	12,029,529
Canada—			
Bituminous .. ..	11,581,914	11,481,984	9,669,828
Sub-bituminous ..	661,157	597,055	532,911
Lignite .. ..	3,439,333	3,542,887	3,074,421
British Borneo—			
State of North Borneo	60,779	58,339	45,839
Sarawak .. ..	17,679	13,610	14,680
Federated Malay States	556,590	661,514	565,573
India—			
Gondwana Coalfields	22,153,314	23,001,586	} 23,803,048
Tertiary Coalfields..	389,558	417,148	
Australia—			
Bituminous .. ..	11,839,780	10,365,319	9,500,000
Lignite .. ..	1,591,858	1,741,176	(a)
New Zealand—			
Bituminous .. ..	1,348,732	1,367,164	} 2,542,092
Brown coal .. ..	973,238	1,049,603	
Lignite .. ..	114,783	119,097	
<b>Total ..</b>	<b>306,000,000</b>	<b>327,000,000</b>	<b>307,000,000</b>
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bituminous .. ..	198,906	204,735	212,478
Brown coal .. ..	3,211,042	3,469,123	3,014,605
Belgium—			
Anthracite and semi-anthracite .. ..	6,035,006	5,826,029	} 26,972,727
Bituminous .. ..	21,107,733	20,688,421	
Bulgaria—			
Anthracite .. ..	1,183	2,479	} 1,548,354
Bituminous .. ..	67,255	75,130	
Lignite .. ..	1,339,298	1,548,121	

(a) Information not available.

## PRODUCTION OF COAL (Cont.)

Producing Country	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Bituminous .. ..	14,330,345	16,260,524	14,207,021
Brown coal .. ..	20,128,419	22,204,480	18,890,532
France—			
Saar .. .. .	12,899,716	13,364,882	13,026,730
Other districts—			
Anthracite and bituminous .. ..	50,554,004	52,930,400	53,033,011
Lignite .. .. .	1,057,655	1,178,329	1,124,685
Germany—			
Bituminous .. ..	148,477,965	160,859,314	140,444,047
Brown coal .. ..	162,972,863	171,700,657	143,609,312
Greece—			
Lignite .. .. .	118,734	154,054	108,419
Hungary—			
Bituminous .. ..	770,908	813,220	798,732
Brown coal .. ..	6,240,930	6,659,925	5,746,586
Lignite .. .. .	164,838	272,765	332,348
Italy—			
Anthracite .. ..	10,321	14,007	19,530
Bituminous .. ..	115,590	205,813	207,946
Brown coal .. ..	686,024	769,694	567,750
Jugoslavia—			
Bituminous .. ..	351,826	435,131	360,430
Brown coal .. ..	3,608,130	4,326,603	3,748,858
Lignite .. .. .	1,012,136	1,036,945	1,077,869
Netherlands—			
Bituminous .. ..	10,525,314	11,398,293	12,018,229
Brown coal .. ..	193,589	154,095	141,873
Poland—			
Bituminous .. ..	39,974,905	45,505,803	} 36,907,295
Brown coal .. ..	72,398	73,147	
Portugal—			
Anthracite .. ..	195,705	175,864	183,471
Bituminous .. ..	2,460	18,098	27,345
Brown coal .. ..	26,031	28,880	33,928
Rumania—			
Bituminous .. ..	391,285	365,088	294,105
Lignite .. .. .	2,588,144	2,632,831	2,038,348
Russia (years ended Sept. 30)—			
European—			
Anthracite .. ..	8,065,702	} 38,084,000	} 45,722,000
Bituminous .. ..	20,306,821		
Brown coal .. ..	1,947,321		
Asiatic—			
Bituminous .. ..	3,978,831		
Lignite .. .. .	889,484		

## PRODUCTION OF COAL (Cont.)

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES</b>			
<i>(Cont.)</i>			
Spain—			
Anthracite .. ..	383,243	491,851	580,123
Bituminous .. ..	5,885,667	6,504,199	6,529,171
Brown coal .. ..	415,831	432,018	374,094
Spitzbergen and Bear			
Island .. ..	270,675	247,218	(a)
Sweden .. ..	352,851	388,737	391,675
Algeria .. ..	16,369	15,873	16,922
Belgian Congo .. ..	88,000	112,642	131,700
Mozambique .. ..	6,353	(a)	(a)
Greenland .. ..	2,500	(a)	(a)
Mexico .. ..	1,006,326	1,043,277	1,054,794
United States—			
Anthracite .. ..	67,275,062	65,918,031	61,950,747
Bituminous and			
lignite .. ..	447,093,723	475,314,000	411,991,000
Brazil .. ..	246,327	167,251	(a)
Chile .. ..	1,353,890	1,484,051	1,328,692
Colombia (estimated) ..	100,000	100,000	100,000
Peru .. ..	175,675	217,120	(a)
Venezuela (c) .. ..	15,660	16,593	12,360
China (estimated) .. ..	25,000,000	25,000,000	(a)
Formosa .. ..	1,558,587	1,505,860	(a)
French Indo-China—			
Anthracite .. ..	1,886,399	1,872,373	1,860,000
Bituminous .. ..	33,869	38,277	47,000
Brown coal .. ..	15,228	30,228	28,000
Japan—			
Semi-anthracite .. ..	163,263	} 33,716,762	} 30,880,669
Bituminous .. ..	33,162,143		
Brown coal .. ..	119,997		
Karafuto .. ..	530,961	625,478	(a)
Korea—			
Anthracite .. ..	457,611	529,744	} 870,174
Bituminous .. ..	345,322	393,345	
Netherlands East Indies	1,676,621	1,802,737	1,667,000
Philippine Islands .. ..	27,417	(a)	(a)
Turkey—			
Bituminous .. ..	1,230,885	1,398,565	1,557,612
Lignite .. ..	9,105	7,747	8,044
New Caledonia .. ..	16,303	22,000	(a)
<b>Total .. ..</b>	<b>1,130,000,000</b>	<b>1,200,000,000</b>	<b>1,080,000,000</b>
<b>WORLD'S TOTAL</b>	<b>1,440,000,000</b>	<b>1,530,000,000</b>	<b>1,390,000,000</b>

(a) Information not available.

(c) Excluding production in government-owned mines.

## PRODUCTION OF COKE

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
Great Britain—			
Gas-works .. ..	12,215,839	12,411,266	12,316,709
Coke ovens (b) .. ..	11,845,210	13,421,998	11,514,021
Irish Free State—			
Gas works .. ..	(a)	100,937	(a)
Southern Rhodesia .. ..	137,513	98,423	75,827
Union of South Africa .. ..	92,604	97,729	88,017
Canada—			
Gas-works .. ..	297,800	272,636	288,598
Coke ovens .. ..	1,768,385	2,118,062	1,841,754
Federated Malay States .. ..	13,760	15,420	14,114
India (c)—			
Hard .. ..	56,533	72,453	(a)
Soft .. ..	689,002	757,727	(a)
Australia—			
Gas works—			
New South Wales (e)	429,654	435,816	421,093
Victoria (e) .. ..	291,077	279,887	(a)
Queensland (e) .. ..	57,247	54,293	(a)
South Australia (e) .. ..	63,779	63,101	67,422
Western Australia (e)	9,693	11,396	(a)
Tasmania .. ..	5,555	5,554	(a)
Coke ovens—			
New South Wales (e)	583,735	567,810	400,164
Queensland .. ..	3,073	1,644	(a)
New Zealand (years ended March 31)—			
Gas-works .. ..	71,434	77,399	71,434
FOREIGN COUNTRIES			
Austria (gas-works) .. ..	566,679	619,015	(a)
Belgium .. ..	6,223,058	6,095,151	5,276,016
Bulgaria (metallurgical) .. ..	884	(a)	(a)
Czechoslovakia .. ..	2,776,861	3,120,553	2,671,815
Finland (gas-works) .. ..	42,044	44,706	(a)
France—			
Saar .. ..	2,335,400	2,384,785	2,608,000
Other districts—			
Metallurgical, etc. .. ..	7,831,000	8,942,000	9,022,000
Gas works .. ..	2,242,611	2,327,000	2,101,000
Germany .. ..	34,852,321	39,546,156	31,946,189
Hungary (metallurgical) .. ..	1,055	2,059	(a)
Italy (metallurgical) .. ..	626,348	779,105	800,480
Netherlands—			
Gas-works .. ..	850,000	800,000	800,000
Coke ovens .. ..	1,548,542	2,364,621	2,558,349
Norway .. ..	71,006	(a)	(a)

## PRODUCTION OF COKE (Cont.)

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES</b> (Cont.)			
Poland .. .. .	1,641,564	1,828,707	1,557,013
Russia (years ended Sept.30)	3,977,000	4,641,000	6,097,000
Spain (incomplete figures)			
Metallurgical .. .. .	669,807	755,910	(a)
Gas works .. .. .	201,247	212,804	240,161
Sweden .. .. .	352,089	381,668	(a)
Switzerland—			
Gas-works .. .. .	341,887	376,075	358,816
Algeria .. .. .	31,120	(a)	(a)
United States (d) .. .. .	47,148,061	53,467,719	42,832,162
Chile .. .. .	49,667	50,098	(a)
Peru .. .. .	19,616	(a)	(a)
China (exports) .. .. .	13,987	13,254	10,390
French Indo-China .. .. .	—	627	(a)
Japan .. .. .	1,218,206	(a)	(a)
Manchuria .. .. .	(a)	382,174	(a)

(a) Information not available.

(b) It is possible that small quantities of coke breeze were included in 1928.

(c) Coke made at collieries only.

(d) Excluding gasworks coke.

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

PRODUCTION OF COAL BRIQUETTES  
(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Great Britain .. ..	1,133,084	1,372,864	1,130,962
<b>FOREIGN COUNTRIES</b>			
Belgium .. .. .	1,928,188	1,986,237	1,872,000
Czechoslovakia—			
Coal briquettes .. ..	211,223	266,025	235,304
Brown-coal briquettes ..	237,365	252,064	177,864
France .. .. .	5,792,661	4,561,665	4,701,460
Germany—			
Coal briquettes .. ..	5,290,938	5,963,498	4,616,940
Brown-coal briquettes ..	39,523,036	41,471,341	33,462,240
Hungary—			
Coal briquettes .. ..	20,536	46,126	} 99,413
Brown-coal briquettes ..	34,742	61,714	
Italy—			
Brown-coal briquettes ..	—	6,610	1,970
Jugoslavia .. ..	27,146	51,946	31,900
Netherlands—			
Coal briquettes .. ..	773,418	943,053	930,999
Brown-coal briquettes ..	68,000	53,637	48,096
Poland .. .. .	260,187	349,180	230,425
Spain .. .. .	858,335	937,490	944,831
Algeria .. .. .	84,720	60,656	94,166
United States .. ..	845,913	1,082,513	918,629
Venezuela .. .. .	1,213	1,665	516
French Indo-China ..	124,896	111,437	142,000
Netherlands East Indies ..	81,324	(a)	(a)

(a) Information not available.



## PRODUCTION OF COAL BY-PRODUCTS

Producing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE</b>				
<b>Great Britain—</b>				
Tar .. .. .	Long ton	1,851,240	1,952,167	1,834,852
Ammonium salts expressed as sulphate (25¼% NH <sub>3</sub> ) (b) .. .. .	do.	622,242	912,259	777,090
Pitch .. .. .	do.	487,190	573,681	490,792
Benzol (refined) .. .. .	Gallon	28,000,000	36,000,000	33,000,000
<b>Irish Free State—</b>				
<b>Gas-works—</b>				
Tar .. .. .	Long ton	(a)	9,482	(a)
Ammonium sulphate .. .. .	do.	(a)	1,891	(a)
Pitch .. .. .	do.	(a)	978	(a)
<b>Union of South Africa—</b>				
Tar .. .. .	Gallon	529,898	541,813	507,483
Ammonium sulphate .. .. .	Long ton	942	1,039	215
<b>Canada—</b>				
Tar .. .. .	Gallon	9,453,666	7,322,998	6,856,765
Ammonium sulphate .. .. .	Long ton	28,090	30,483	21,333
Pitch .. .. .	do.	48,245	49,259	39,493
Creosote, etc. .. .. .	Gallon	7,552,768	9,031,501	9,596,340
<b>Federated Malay States—</b>				
Tar .. .. .	Long ton	1,025	867	774
<b>India—</b>				
Ammonium sulphate .. .. .	Long ton	15,409	(a)	(a)
<b>Australia—</b>				
<b>New South Wales (e)—</b>				
Tar .. .. .	Gallon	12,396,984	13,244,818	10,336,000
Ammonium sulphate .. .. .	Long ton	17,488	17,617	12,369
Liquid Ammonia .. .. .	£ (Australian)	11,981	9,980	4,196
<b>Victoria (e)—</b>				
Tar .. .. .	Gallon	6,784,000	7,085,088	(a)
Ammonium sulphate .. .. .	Long ton	3,441	2,689	(a)
<b>Queensland—</b>				
Tar (e) .. .. .	Gallon	1,104,351	1,093,546	(a)
<b>South Australia (e)—</b>				
Tar .. .. .	Gallon	1,757,735	1,984,654	(a)
Ammonium sulphate .. .. .	Long ton	1,176	1,113	(a)

(a) Information not available.

(b) Actual ammonium sulphate production in long tons was :—1928, 558,705 ; 1929, 828,832 ; 1930, 670,690.

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

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

Producing Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE (Cont.)				
Australia (Cont.)				
Western Australia—				
Tar .. .. .	Gallon	397,914	462,605	(a)
Tasmania (e)—				
Tar .. .. .	Gallon	114,555	205,300	(a)
Ammonium sulphate	Long ton	—	44	(a)
New Zealand (c)—				
Tar (gas-works)	Gallon	2,805,101	2,244,847	2,424,748
FOREIGN COUNTRIES				
Austria—				
Ammonium sulphate ..	Long ton	4,943	5,658	6,900
Belgium—				
Tar .. .. .	Long ton	193,180	191,359	(a)
Ammonium sulphate ..	do.	84,868	83,992	(a)
Benzol .. .. .	do.	44,063	41,435	(a)
Czechoslovakia—				
Tar .. .. .	Long ton	99,759	108,187	107,136
Ammonium sulphate ..	do.	34,446	38,441	35,143
Naphthalene .. .. .	do.	1,449	1,951	1,582
Pitch .. .. .	do.	3,353	2,676	1,174
Benzol .. .. .	do.	32,663	36,982	32,570
Liquid ammonia .. ..	do.	197	53	—
Carbolic acid .. .. .	do.	69	265	244
Finland—				
Gas-works—				
Tar .. .. .	Long ton	2,414	2,633	(a)
Benzol .. .. .	do.	219	220	(a)
Ammonia .. .. .	do.	150	129	(a)
France—				
Tar .. .. .	Long ton	497,540	552,000	586,000
Ammonium sulphate ..	do.	124,872	(a)	132,000
Benzol .. .. .	do.	76,635	77,950	80,100
Pitch .. .. .	do.	79,549	(a)	(a)
Saar—				
Tar .. .. .	Long ton	120,738	119,744	134,000
Ammonium sulphate				
(coke ovens).. .. .	do.	27,787	31,673	29,100
Benzol .. .. .	do.	31,673	30,695	35,000
Germany—				
Tar and pitch .. .. .	Long ton	1,387,648	1,597,139	(a)
Ammonium sulphate				
and other ammoniacal				
salts .. .. .	do.	460,800	523,630	(a)
Benzol .. .. .	do.	327,890	380,182	(a)

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

Importing Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Italy—				
Tar .. .. .	Long ton	21,457	28,127	30,317
Ammonium sulphate (d) ..	do.	7,216	9,844	9,671
Benzol (d) .. .. .	do.	3,931	5,806	4,993
Netherlands—				
Ammonium sulphate ..	Long ton	46,000	58,500	148,000
Pitch .. .. .	do.	35,000	45,000	54,000
Benzol (estimated) ..	do.	20,000	20,000	20,000
Norway—				
Tar .. .. .	Long ton	5,510	(a)	(a)
Poland—				
Tar .. .. .	Long ton	79,168	86,496	78,500
Ammonium sulphate ..	do.	36,142	35,574	33,100
Benzol .. .. .	do.	20,807	22,706	24,700
Naphthalene .. .. .	do.	1,275	1,547	(a)
Portugal—				
Ammonium sulphate ..	Long ton	67	8	(a)
Russia (years ended Sept. 30)—				
Tar .. .. .	Long ton	88,022	106,955	112,228
Ammonium sulphate ..	do.	13,412	19,023	9,731
Liquid ammonia .. ..	do.	4,049	5,354	7,394
Benzol (crude) .. .. .	do.	21,164	30,775	(a)
Spain (incomplete figures)—				
Tar .. .. .	Long ton	46,156	44,810	(a)
Ammonium sulphate ..	do.	21,297	25,155	(a)
Benzol .. .. .	do.	10,565	10,739	(a)
Naphthalene .. .. .	do.	694	745	(a)
Creosote .. .. .	do.	5,623	6,642	(a)
Pitch .. .. .	do.	5,907	6,619	(a)
Sweden—				
Tar .. .. .	Long ton	20,807	23,057	(a)
Ammonium sulphate ..	do.	3,797	4,532	(a)
Benzol .. .. .	do.	2,014	2,153	(a)

(a) Information not available.

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

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

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

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

Producing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
Switzerland—				
Tar (gas-works) .. ..	Long ton	25,568	26,847	26,857
Ammonium sulphate .. ..	do.	936	524	(a)
Algeria—				
Tar .. ..	Long ton	4,063	(a)	(a)
Ammonium sulphate .. ..	do.	541	(a)	(a)
Mexico—				
Tar .. ..	Gallon	(a)	(a)	2,000,000
Creosote .. ..	do.	(a)	(a)	1,500,000
Benzol .. ..	do.	(a)	(a)	500,000
United States (coke ovens only)—				
Tar .. ..	Gallon	526,537,306	567,386,972	502,071,608
Pitch .. ..	Long ton	48,331	78,713	94,941
Sulphate equivalent of ammonia produced .. ..	do.	713,292	746,477	686,627
Benzol .. ..	Gallon	17,876,457	20,787,109	15,952,425
Motor fuel .. ..	do.	85,876,583	88,269,802	84,885,577
Naphthalene .. ..	Long ton	5,438	8,822	5,643
Toluol .. ..	Gallon	13,414,880	15,286,079	9,861,002
Solvent naphtha .. ..	do.	4,656,142	5,942,593	3,398,562
Crude light oils (b) .. ..	do.	157,164,963	167,161,689	148,604,960
Creosote .. ..	do.	10,321,667	22,275,105	24,363,901
Phenol .. ..	do.	48,162	70,569	114,143
Chile—				
Tar .. ..	Gallon	1,119,262	1,214,898	(a)
Japan—				
Tar .. ..	Long ton	86,000	86,200	(a)
Ammonium sulphate .. ..	do.	228,739	230,903	236,000
Naphthalene .. ..	do.	3,535	(a)	(a)
Creosote .. ..	do.	33,000	(a)	(a)

(a) Information not available.

(b) The greater proportion of this production was refined to make the derived products mentioned above.

## EXPORTS OF COAL, COKE AND BY-PRODUCTS

*(Domestic Produce)*

Exporting Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE</b>				
United Kingdom—				
Anthracite—				
small and sized .. ..	Long ton	2,277,509	3,115,485	2,974,321
large .. ..	do.	879,846	1,101,841	1,131,257
Bituminous—				
small and sized .. ..	do.	13,357,843	17,428,593	16,166,440
unscreened .. ..	do.	12,927,647	15,708,525	14,537,969
large .. ..	do.	20,608,350	22,912,174	20,069,492
bunkers .. ..	do.	16,729,313	16,390,933	15,616,691
Coke .. ..	do.	2,593,613	2,903,837	2,464,218
Manufactured fuel .. ..	do.	1,032,166	1,230,566	1,006,431
do. (bunkers) .. ..	do.	281	795	726
Ammonium sulphate .. ..	do.	393,422	587,476	557,930
Ammonium chloride .. ..	do.	4,271	3,941	4,203
Tar and pitch .. ..	do.	262,631	401,000	351,117
Heavy coal-tar oils .. ..	Gallon	41,809,638	35,306,016	27,352,752
Naphthalene .. ..	Long ton	2,291	4,100	4,963
Anthracene .. ..	do.	67	1	30
Carbolic acid .. ..	} do.	12,872	10,737	1,858
Cresylic acid .. ..				(b) 1,401,251
Benzol .. ..	Gallon	3,924,738	2,362,051	420,309
Toluol .. ..	do.	27,457	83,793	35,634
Naphtha .. ..	do.	82,575	66,241	47,718
Irish Free State—				
Coke .. ..	Long ton	20,037	20,652	21,531
Tar and pitch .. ..	do.	365	615	488
Malta—				
Coal (bunkers on merchant ships) (c) .. ..	Long ton	143,558	153,699	99,119
Coke .. ..	do.	1,175	75	631
Kenya and Uganda—				
Coal (bunkers) (c) .. ..	Long ton	2,340	3,746	4,448
Coke .. ..	do.	—	—	2
Nigeria—				
Coal .. ..	Long ton	32,995	41,838	45,812
Sierra Leone—				
Coal (bunkers) (c) .. ..	Long ton	25,616	37,582	37,027

(b) Gallons.

(c) Foreign coal (see imports).

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

Exporting Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE ( <i>Cont.</i> )				
Southern Rhodesia—				
Coal .. .. .	Long ton	451,600	439,330	454,071
Coke and patent fuel ..	do.	155,026	93,067	94,132
Union of South Africa—				
Coal .. .. .	Long ton	1,471,562	1,635,937	1,254,757
ditto (bunkers) ..	do.	1,475,629	1,549,133	1,306,722
Coke and patent fuel ..	do.	16,556	9,961	21,315
Ammonium sulphate ..	do.	—	10	1
Canada—				
Coal .. .. .	Long ton	740,629	723,954	530,795
Lignite .. .. .	do.	30,747	28,699	26,805
Coke .. .. .	do.	40,103	47,438	48,196
Ammonium sulphate ..	do.	12,171	21,865	10,724
Tar and pitch .. ..	Gallon	3,572,781	3,069,247	4,555,899
Creosote oil .. .. .	do.	1,150,766	1,025,223	1,132,014
West Indies—				
Barbados—				
Coal (bunkers) (c) ..	Long ton	26,416	22,083	9,224
St. Lucia—				
Coal (bunkers) (c) ..	Long ton	24,902	43,047	31,306
Trinidad and Tobago—				
Coal (bunkers) (c) ..	Long ton	62,137	68,840	47,505
Aden—				
Coal .. .. .	Long ton	68	138	65
British Borneo—				
Brunei—				
Coal .. .. .	Long ton	25	—	—
Sarawak—				
Coke .. .. .	Long ton	8	5	26
State of North Borneo—				
Coal .. .. .	Long ton	51,826	46,090	35,839
British India—				
Coal .. .. .	Long ton	622,870	724,329	459,906
ditto (bunkers) (d) ..	do.	1,297,000	933,000	828,000
Coke .. .. .	do.	3,473	2,281	1,282
Ammonium sulphate ..	do.	13	—	4,850
British Malaya (including re-exports)—				
Coal .. .. .	Long ton	2,540	2,148	5,474
ditto (bunkers) ..	do.	571,433	563,066	436,958
Coke .. .. .	do.	938	909	476
Tar .. .. .	do.	453	408	253

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

Exporting Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE (Cont.)				
Ceylon—				
Coal (bunkers) (c) ..	Long ton	500,652	506,859	352,410
Australia (including re-exports)—				
Coal .. .. .	Long ton	398,028	292,442	292,159
ditto (bunkers) (e) ..	do.	800,000	845,210	507,349
Coke .. .. .	do.	22,411	7,073	1,460
Ammonium sulphate ..	do.	2,314	10	67
Tar and pitch .. ..	do.	3,165	1,260	1,132
Benzene and benzol ..	Gallon	160,622	100,801	68,281
New Zealand—				
Coal .. .. .	Long ton	5,709	49,627	18,832
ditto (bunkers) ..	do.	120,062	155,776	107,286
Coke .. .. .	do.	20	54	60
Tar .. .. .	do.	7	249	1,026
Liquid ammonia (i) ..	£	157	165	317
Naphtha, benzol, toluol	Gallon	—	—	651
FOREIGN COUNTRIES				
Austria—				
Coal .. .. .	Long ton	4,321	7,043	905
Brown coal .. .. .	do.	9,835	8,129	4,711
Coke .. .. .	do.	59,878	26,568	43,029
Briquettes .. .. .	do.	305	366	82
Ammonium sulphate ..	do.	1,970	1,372	1,412
Liquid ammonia .. ..	do.	6	11	7
Tar and pitch .. .. .	do.	7,879	10,984	9,733
Tar oils .. .. .	do.	3,642	3,777	4,456
Naphthalene .. .. .	do.	516	481	304
Cresol, etc. .. .. .	do.	15	23	41
Belgium-Luxemburg E.U.—				
Coal .. .. .	Long ton	3,937,429	3,419,989	3,485,684
ditto (bunkers) .. ..	do.	209,305	310,304	413,961
Brown coal .. .. .	do.	42	73	588
Coke .. .. .	do.	796,433	726,440	780,789
Briquettes .. .. .	do.	699,084	616,918	565,863
ditto (bunkers) .. ..	do.	133,121	113,828	134,822

(a) Information not available.

(c) Foreign coal (see imports).

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

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

(i) £ New Zealand.

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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Belgium-Luxemburg E.U. (Cont.)—</b>				
Ammonium sulphate ..	Long ton	19,183	56,907	79,267
Ammonium chloride ..	do.	306	462	253
Liquid ammonia ..	do.	1,201	5,393	1,592
Anthracene .. ..	do.	12	—	39
Tar and pitch .. ..	do.	30,694	25,014	31,161
Naphthalene .. ..	do.	8,481	6,494	7,106
Aniline oil and salts ..	do.	7	82	146
Distillates .. ..	do.	111,058	95,075	70,538
<b>Bulgaria—</b>				
Coal and coke .. ..	Long ton	10,418	10,653	(a)
<b>Czechoslovakia—</b>				
Coal .. ..	Long ton	1,648,981	1,824,999	1,678,570
Brown coal .. ..	do.	2,951,168	3,013,394	2,340,103
Coke .. ..	do.	771,504	870,014	575,054
Briquettes .. ..	do.	138,058	158,395	86,759
Ammonium sulphate ..	do.	2,821	22,971	16,100
Ammonium chloride ..	do.	1	187	620
Liquid ammonia ..	do.	2	1	—
Tar and pitch .. ..	do.	7,539	14,024	13,920
Anthracene .. ..	do.	116	348	—
Benzol, etc. .. ..	do.	24,824	26,492	21,969
Crude naphthalene ..	do.	1,864	1,469	1,004
Crude carboic acid ..	do.	4,333	2,088	7,667
Cresol .. ..	do.	39	444	238
Aniline oil and salts ..	do.	112	23	12
<b>Denmark—</b>				
Coke .. ..	Long ton	19,360	—	—
Ammonium sulphate ..	do.	458	821	334
Tar and pitch .. ..	do.	380	1,042	1,232
<b>France—</b>				
Coal .. ..	Long ton	4,738,738	4,957,618	3,970,517
Coke .. ..	do.	411,250	461,439	346,145
Briquettes .. ..	do.	242,934	362,425	235,707
<b>Coal, coke and briquettes—</b>				
Bunkers (domestic produce) .. ..	do.	187,680	145,661	(a)
Bunkers (foreign produce) .. ..	do.	1,331,361	1,424,658	(a)



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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
France (Cont.)—				
Ammonium sulphate .. .. .	Long ton	17,860	4,930	8,245
Liquid ammonia .. .. .	do.	69	92	122
Tar and pitch .. .. .	do.	52,047	43,405	28,320
Benzol .. .. .	do.	16,046	16,310	26,431
Naphthalene, etc. .. .. .	do.	(a)	3,038	2,494
Carbolic acid, etc. .. .. .	do.	18	269	151
Germany—				
Coal .. .. .	Long ton	23,411,303	26,051,618	23,693,956
do. (bunkers for foreign ships) .. .. .	do.	106,434	294,690	304,258
Brown coal .. .. .	do.	32,426	28,623	19,618
Coke .. .. .	do.	8,744,941	10,485,033	7,845,002
Coal briquettes .. .. .	do.	666,612	772,133	883,090
Brown-coal briquettes .. .. .	do.	1,659,624	1,909,288	1,678,509
Ammonium sulphate .. .. .	do.	824,034	715,335	456,360
Ammonium chloride .. .. .	do.	35,019	23,264	21,291
Liquid ammonia .. .. .	do.	4,876	4,896	5,371
Tar and pitch .. .. .	do.	192,573	339,371	335,585
Naphthalene .. .. .	do.	21,577	17,741	15,450
Anthracene .. .. .	do.	1,459	1,086	1,088
Carbolic acid .. .. .	do.	772	1,377	1,147
Cresol .. .. .	do.	4,101	3,791	2,996
Light coal-tar oils, etc. .. .. .	do.	7,436	6,485	3,127
Heavy coal-tar oils, etc. .. .. .	do.	142,602	133,516	144,646
Hungary—				
Coal .. .. .	Long ton	91,395	110,241	103,261
Brown coal .. .. .	do.	189,767	288,100	272,091
Coke .. .. .	do.	1,304	1,861	1,355
Briquettes .. .. .	do.	1,144	1,741	969
Ammonium sulphate .. .. .	do.	5	193	585
Tar .. .. .	do.	365	147	225
Liquid ammonia .. .. .	do.	7	—	21
Benzols .. .. .	do.	24	22	43
Italy—				
Coal, etc. .. .. .	Long ton	24,599	44,239	42,593
Coke .. .. .	do.	5,464	1,972	1,776
Ammonium sulphate .. .. .	do.	20,844	16,470	16,397
Tar and tar oils .. .. .	do.	1,705	1,907	1,602
Naphthalene .. .. .	do.	206	68	57
Benzol, toluol and xylol .. .. .	do.	20	45	52
Carbolic acid .. .. .	do.	28	11	15

(a) Information not available.

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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Jugoslavia—</b>				
Anthracite .. ..	Long ton	446	—	—
Bituminous coal .. ..	do.	9,217	2,369	526
Lignite .. ..	do.	78,063	71,733	61,367
Brown coal .. ..	do.	49,513	57,546	47,993
Coke .. ..	do.	185	586	226
Briquettes .. ..	do.	—	73	—
Tar and pitch .. ..	do.	107	35	12
Creosote .. ..	do.	2	7	14
Benzol .. ..	do.	10	64	17
<b>Latvia—</b>				
Coal .. ..	Long ton	1,487	2,127	641
Coke .. ..	do.	668	450	108
Tar .. ..	do.	50	29	49
<b>Netherlands—</b>				
Coal .. ..	Long ton	3,861,610	3,564,046	3,837,926
ditto (bunkers) .. ..	do.	2,110,574	1,942,201	1,789,801
Coke .. ..	do.	1,115,207	1,909,651	2,046,702
Briquettes .. ..	do.	76,117	102,968	190,824
Brown-coal briquettes .. ..	do.	15,956	28,393	14,684
Ammonium sulphate .. ..	do.	30,823	32,377	90,342
Ammonium chloride .. ..	do.	6	38	18
Liquid ammonia .. ..	do.	266	255	(a)
Tar .. ..	do.	10,999	11,341	11,321
Creosote .. ..	do.	16,430	13,495	13,442
Naphthalene .. ..	do.	1,066	2,150	1,912
Anthracene .. ..	do.	781	1,975	2,011
Carbolic acid .. ..	do.	89	79	48
Benzol .. ..	do.	9,355	12,876	16,616
Toluol and xylol .. ..	do.	464	835	630
Naphtha .. ..	do.	339	391	280
<b>Norway—</b>				
Tar .. ..	Long ton	384	720	278
Creosote .. ..	do.	367	92	1
<b>Poland—</b>				
Bituminous coal .. ..	Long ton	12,351,054	13,691,897	12,267,748
Brown coal .. ..	do.	37	—	—
Briquettes .. ..	do.	8,873	9,102	2,597
Coke .. ..	do.	160,138	147,492	193,431
Ammonium sulphate .. ..	do.	17,983	18,142	55,477
Liquid ammonia .. ..	do.	29	1	23
Tar and pitch .. ..	do.	1,051	4,539	1,001
Naphthalene .. ..	do.	3,134	2,202	822

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

Exporting Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Poland (Cont.)—				
Anthracene, etc. . . . .	Long ton	787	1,269	755
Carbolic acid, etc. . . . .	do.	1,316	670	611
Benzol . . . . .	do.	13,636	14,761	15,856
Creosote, etc. . . . .	do.	77	326	440
Portugal—				
Coal . . . . .	Long ton	306	835	1,183
ditto (bunkers) . . . . .	do.	261,265	237,925	314,254
Tar and pitch . . . . .	do.	113	85	52
Rumania—				
Anthracite . . . . .	Long ton	34,372	(a)	37,274
Bituminous coal . . . . .	do.	112	(a)	(a)
Brown coal . . . . .	do.	220	(a)	44
Ammonium chloride . . . . .	do.	42	(a)	68
Tar and pitch . . . . .	do.	(a)	(a)	11,602
Russia (years ended Sept. 30)				
Anthracite . . . . .	Long ton	112,398	416,798	839,357
Other coal . . . . .	do.	382,543	714,970	930,969
Coke . . . . .	do.	183	689	478
Tar . . . . .	do.	21,680	26,480	20,824
Spain (including re-exports)—				
Coal . . . . .	Long ton	57,584	69,598	19,029
Coke . . . . .	do.	10	35	93
Spitzbergen—				
Coal . . . . .	Long ton	274,444	235,918	(a)
Sweden—				
Anthracite . . . . .	Long ton	2	14	8
Bituminous coal . . . . .	do.	20	189	180
Coke . . . . .	do.	1,296	2,284	1,725
Ammonium sulphate . . . . .	do.	403	650	1,491
Liquid ammonia . . . . .	do.	31	38	36
Tar, pitch, etc. . . . .	do.	8,850	8,094	13,727
Benzol oils . . . . .	do.	1,769	842	1,445
Carbolinum . . . . .	do.	27	17	} 43
Naphthalene . . . . .	do.	36	36	

(a) Information not available.

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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
Switzerland—				
Coal .. .. .	Long ton	49	48	7
Coke .. .. .	do.	734	1,182	975
Briquettes .. .. .	do.	73	25	1
Ammonium sulphate, etc.	do.	4,603	2,823	313
Liquid ammonia .. .. .	do.	15	—	—
Tar and pitch .. .. .	do.	477	367	2,226
Creosote, etc. .. .. .	do.	381	633	808
Naphthalene, etc. .. .. .	do.	495	588	303
Belgian Congo—				
Coal and briquettes .. .. .	Long ton	—	16	544
Cape Verde Islands—				
Coal (bunkers) .. .. .	Long ton	241,323	276,093	(a)
Egypt—				
Coal (bunkers) .. .. .	Long ton	1,142,148	1,207,811	751,227
Coke .. .. .	do.	699	779	749
do. (bunkers) .. .. .	do.	87	341	181
Patent fuel (bunkers) .. .. .	do.	544	393	(a)
Mozambique—				
Coal .. .. .	do.	2,032	1,776	(a)
Senegal—				
Coal (bunkers) .. .. .	Long ton	226,395	214,398	146,379
United States—				
Anthracite .. .. .	Long ton	2,978,814	3,041,401	2,278,262
Bituminous .. .. .	do.	14,432,576	15,561,873	14,176,256
ditto (bunkers) .. .. .	do.	3,834,128	3,827,249	3,122,036
Coke .. .. .	do.	980,059	1,105,388	896,309
Ammonium sulphate .. .. .	do.	93,015	144,761	81,662
Tar and pitch .. .. .	do.	69,192	45,626	58,442
Benzol .. .. .	Gallon	17,782,025	27,788,650	37,166,924
Argentina—				
Coal (bunkers) (c) .. .. .	Long ton	142,777	134,246	93,198
Brazil—				
Coal .. .. .	Long ton	112	157	19

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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
Chile—				
Coal .. .. .	Long ton	15,584	17,729	51,605
ditto (bunkers) ..	do.	312,333	343,003	93,359
Briquettes .. ..	do.	(a)	2,574	945
Coke .. .. .	do.	607	149	56
Uruguay—				
Coal .. .. .	Long ton	135,169	106,590	(a)
China—				
Coal .. .. .	Long ton	3,257,210	3,475,051	2,988,301
ditto (bunkers) ..	do.	628,048	648,230	516,880
Coke .. .. .	do.	13,987	13,254	10,390
Ammonium sulphate ..	do.	7,264	8,841	5,204
Formosa—				
Coal .. .. .	Long ton	213,793	122,412	(a)
ditto (bunkers) ..	do.	52,980	56,534	(a)
Coal dust .. .. .	do.	225,949	266,536	(a)
ditto (bunkers) ..	do.	107,547	124,243	(a)
Coke .. .. .	do.	1,351	850	(a)
Tar .. .. .	do.	210	213	(a)
French Indo-China—				
Coal .. .. .	Long ton	1,010,068	1,299,724	1,304,600
Briquettes .. ..	do.	40,743	29,665	(a)
Japan—				
Coal .. .. .	Long ton	2,150,432	2,011,402	2,097,269
ditto (bunkers) ..	do.	2,423,833	(a)	(a)
Tar, pitch, etc. ..	do.	25,039	17,229	15,987
Korea—				
Coal .. .. .	Long ton	273,802	285,917	236,266
Briquettes .. ..	do.	9,807	2,064	1,512
Netherlands East Indies—				
Coal .. .. .	Long ton	470,361	489,207	(a)
ditto (bunkers) ..	do.	134,912	110,810	(a)
Persia (f) (g)—				
Coal, coke and peat ..	Long ton	15	—	18
Turkey—				
Coal and coke .. ..	Long ton	92,272	(a)	153,367

(a) Information not available.

(c) Foreign coal; excluded from imports.

(f) Including re-exports.

(g) Years ended March 21.

IMPORTS OF COAL, COKE AND BY-PRODUCTS  
(Less Re-exports)

Importing Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE				
United Kingdom—				
Coal .. .. .	Long ton	27,252	20,950	17,089
Coke .. .. .	do.	1,131	809	673
Manufactured fuel .. .. .	do.	3,827	573	245
Ammonium sulphate .. .. .	do.	(b) 167	188	1,994
Ammonium chloride .. .. .	do.	2,763	2,733	2,714
Tar and pitch .. .. .	do.	5,012	1,995	2,312
Heavy coal-tar oils .. .. .	Gallon	274,146	111,523	89,067
Naphthalene .. .. .	Long ton	2,398	1,396	1,276
Anthracene .. .. .	do.	876	462	402
Carbolic acid .. .. .	do.	328	32	9
Benzol .. .. .	Gallon	3,590,647	4,507,176	3,808,630
Naphtha .. .. .	do.	7,425	9,167	(b) 115
Irish Free State (total imports)—				
Anthracite .. .. .	Long ton	34,995	35,796	36,648
Bituminous coal .. .. .	do.	2,370,274	2,425,333	2,462,883
Coke .. .. .	do.	13,179	17,799	23,007
Ammonium sulphate .. .. .	do.	15,443	20,712	21,759
Tar and pitch .. .. .	do.	16,675	16,851	11,836
Creosote etc. .. .. .	do.	1,329	630	183
Malta—				
Coal, coke etc. (c) .. .. .	Long ton	168,520	176,082	114,658
Anglo-Egyptian Sudan—				
Coal .. .. .	Long ton	96,495	122,004	117,760
Coke .. .. .	do.	774	786	3,172
Patent fuel .. .. .	do.	5,323	8,123	1,524
Tar and pitch .. .. .	do.	46	194	8
Gambia—				
Coal, coke and patent fuel	Long ton	4,798	3,600	2,040
Gold Coast—				
Coal .. .. .	Long ton	50,451	72,252	56,624
Coke .. .. .	do.	216	249	198
Patent fuel .. .. .	do.	344	338	166
Kenya and Uganda—				
Coal .. .. .	Long ton	58,614	91,226	105,756
Coke .. .. .	do.	401	330	321
Tar, pitch and bitumen .. .. .	do.	921	1,360	2,093
Creosote, etc. .. .. .	Gallon	22,107	35,971	52,781

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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
Mauritius—				
Coal .. .. .	Long ton	57,337	34,906	47,709
Coke .. .. .	do.	537	641	} 6,095
Patent fuel .. .. .	do.	11,482	13,911	
Tar .. .. .	do.	29	57	
Ammonium sulphate .. .. .	do.	6,436	8,803	7,302
Nigeria—				
Coal .. .. .	Long ton	18,216	20,852	27,466
Coke and patent fuel .. .. .	do.	956	731	1,196
Northern Rhodesia—				
Coal .. .. .	Long ton	146,096	135,475	163,538
Coke .. .. .	do.	7,714	3,860	524
Nyasaland—				
Coal and coke .. .. .	Long ton	2,451	3,131	4,268
Seychelles—				
Coal .. .. .	Long ton	258	—	393
Sierra Leone—				
Coal (c) .. .. .	Long ton	28,932	42,315	42,763
Coke .. .. .	do.	32	32	34
Southern Rhodesia—				
Coke and patent fuel .. .. .	Long ton	89	132	(a)
Tar, pitch, etc. .. .. .	do.	434	426	(a)
South West Africa—				
Coal .. .. .	Long ton	7,547	15,621	14,768
Coke .. .. .	do.	205	532	1,573
Tanganyika Territory—				
Coal .. .. .	Long ton	3,498	17,542	18,499
Coke .. .. .	do.	10	148	51
Patent fuel .. .. .	do.	—	23	16
Creosote .. .. .	Gallon	7,806	—	1,710
Union of South Africa—				
Coal .. .. .	Long ton	2	} 3,771	2,737
Coke and patent fuel .. .. .	do.	10		
Ammonium sulphate .. .. .	do.	3,319	2,738	2,217
Ammonium chloride .. .. .	do.	21	35	34
Liquid ammonia .. .. .	Gallon	10,351	12,361	13,635
Benzine and benzol .. .. .	do.	384	36,370	5,220

(a) Information not available.

(b) Excess of re-exports.

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

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

Importing Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE ( <i>Cont.</i> )				
Union of South Africa ( <i>Cont.</i> )—				
Tar .. .. .	Long ton	446	930	674
Naphthalene .. .. .	do.	267	253	168
Creosote .. .. .	Gallon	141,710	222,545	266,816
Zanzibar—				
Coal .. .. .	Long ton	3,513	4,877	5,837
Canada—				
Anthracite (total imports)	Long ton	3,347,157	3,589,212	3,800,080
Bituminous coal (total imports) .. .. .	do.	11,394,182	12,238,877	12,630,419
Brown coal (total imports)	do.	9,625	12,596	16,675
Coal (bunkers) .. .. .	do.	611,126	413,031	314,183
Coke .. .. .	do.	946,893	1,095,737	947,741
Ammonium sulphate .. .. .	do.	3,134	1,538	3,056
Ammonium chloride .. .. .	do.	1,614	1,543	1,313
Tar and pitch .. .. .	Gallon	6,003,182	6,429,566	4,965,646
Naphthalene .. .. .	Long ton	253	480	495
Carbolic acid, etc. .. .. .	Gallon	1,803,659	2,398,042	2,358,516
Aniline oil and salts .. .. .	Long ton	149	299	178
Newfoundland (years ended June 30)—				
Anthracite .. .. .	Long ton	14,082	12,618	13,823
Other coal .. .. .	do.	363,453	359,855	420,178
Coke .. .. .	do.	460	673	948
British Guiana—				
Coal .. .. .	Long ton	20,230	15,166	7,108
Coke .. .. .	do.	111	80	83
Patent fuel .. .. .	do.	2,100	4,019	4,000
British West Indies—				
Bahamas—				
Coal .. .. .	Long ton	1,234	272	609
Barbados—				
Coal ( <i>c</i> ) .. .. .	Long ton	30,563	19,432	11,964
Ammonium sulphate.. .. .	do.	4,628	4,764	5,323
Bermuda—				
Bituminous coal .. .. .	Long ton	14,179	5,611	4,737
Coke .. .. .	do.	23	—	—
Jamaica—				
Coal .. .. .	Long ton	123,268	112,887	86,103
Coke .. .. .	do.	—	256	23
Leeward Islands ( <i>d</i> )—				
Coal, coke, etc. .. .. .	Long ton	1,892	2,073	411
St. Lucia—				
Coal ( <i>c</i> ) .. .. .	Long ton	19,701	37,835	34,780
St. Vincent—				
Coal .. .. .	Long ton	—	31	20



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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
British West Indies ( <i>Cont.</i> )—				
Trinidad and Tobago—				
Coal ( <i>c</i> ) .. .. .	Long ton	78,234	83,489	60,018
Coke .. .. .	do.	69	43	21
Patent fuel .. .. .	do.	2,300	1,775	1,625
British Honduras—				
Coal and coke .. .. .	Long ton	698	885	( <i>a</i> )
Aden (total imports)—				
Coal ( <i>e</i> ) .. .. .	Long ton	95,409	134,693	44,173
Coke .. .. .	do.	81	30	90
Tar and pitch .. .. .	do.	27	70	28
Naphthalene .. .. .	do.	559	223	130
British Borneo—				
State of North Borneo ..	Long ton	1,912	22	23
British India (total imports)—				
Coal .. .. .	Long ton	188,216	204,529	198,327
Coke .. .. .	do.	21,970	14,031	18,702
Coal and coke on govern- ment account .. .. .	do.	287	199	51
Tar and pitch .. .. .	do.	3,469	2,581	1,913
Naphthalene .. .. .	do.	423	445	628
Carbolic acid .. .. .	do.	48	38	32
Ammonium sulphate .. .. .	do.	14,188	23,901	21,859
Ammonium salts .. .. .	do.	1,348	1,758	1,402
British Malaya (total im- ports)—				
Coal ( <i>c</i> ) .. .. .	Long ton	812,130	830,603	685,435
Coke .. .. .	do.	7,682	7,821	6,006
Tar .. .. .	do.	1,967	2,137	2,037
Ceylon—				
Coal ( <i>c</i> ) .. .. .	Long ton	644,980	812,545	566,961
Coke .. .. .	do.	1,043	1,109	692
Briquettes .. .. .	do.	3	—	—
Ammonium sulphate .. .. .	do.	13,796	16,444	16,128

(*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	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
Cyprus—				
Coal .. .. .	Long ton	8,889	8,394	9,697
Tar and pitch .. .. .	do.	185	249	6
Ammonium chloride .. .. .	do.	4	4	3
Palestine (total imports)—				
Anthracite .. .. .	Long ton	16,228	12,352	21,404
Other coal .. .. .	do.	17,091	16,593	22,556
Briquettes .. .. .	do.	3,802	4,366	4,442
Tar and pitch .. .. .	do.	101	37	75
Australia—				
Coal .. .. .	Long ton	17,870	519,818	330,450
Coke .. .. .	do.	34,544	25,608	3,897
Ammonium sulphate .. .. .	do.	402	5,626	12,695
Ammonium chloride .. .. .	do.	538	496	786
Tar and pitch .. .. .	do.	597	61	538
Naphthalene .. .. .	do.	177	250	197
Carbolic acid .. .. .	do.	52	65	41
Benzene and benzol .. .. .	Gallon	36,908	—	43,892
Tar oil .. .. .	do.	23,252	43,913	73,448
Fiji—				
Coal .. .. .	Long ton	22,426	25,899	27,430
Coke .. .. .	do.	509	427	578
Tar and pitch .. .. .	£	684	2,502	1,555
New Zealand—				
Coal .. .. .	Long ton	235,819	210,966	157,943
Coke .. .. .	do.	1,005	1,473	825
Ammonium sulphate .. .. .	do.	2,121	8,992	8,244
Ammonium chloride (i) .. .. .	£	1,477	1,175	1,094
Tar and pitch .. .. .	Long ton	3,180	1,186	1,073
Carbolic acid .. .. .	do.	10	9	9
Benzol, toluol, etc. .. .. .	Gallon.	8,870	4,953	7,301
Creosote (i) .. .. .	£	169	187	270
Naphthalene (i) .. .. .	£	965	839	884
Solomon Islands—				
Coal .. .. .	Long ton	705	853	1,979
Western Samoa—				
Coal .. .. .	£	1,798	520	(a)
<b>FOREIGN COUNTRIES</b>				
Austria—				
Coal .. .. .	Long ton	4,520,825	5,218,696	3,862,490
Brown coal .. .. .	do.	405,621	520,586	350,567
Coke .. .. .	do.	636,382	736,216	482,071

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>Austria (<i>Cont.</i>)—</b>				
Briquettes .. ..	Long ton	58,689	77,591	51,222
Ammonium sulphate .. ..	do.	226	188	323
Ammonium chloride .. ..	do.	210	230	198
Liquid ammonia .. ..	do.	14	17	15
Refined carbolic acid .. ..	do.	596	516	203
Tar and pitch .. ..	do.	1,644	1,215	1,061
Naphthalene .. ..	do.	31	22	14
Cresol, etc. .. ..	do.	107	112	102
Tar oils .. ..	do.	3,647	2,404	2,268
<b>Belgium-Luxemburg E.U.—</b>				
Coal .. ..	Long ton	8,783,919	11,195,492	10,151,229
Brown coal .. ..	do.	153,438	175,176	165,862
Coke .. ..	do.	2,733,351	3,350,862	2,900,104
Briquettes .. ..	do.	96,554	181,174	176,728
Ammonium sulphate .. ..	do.	50,042	38,029	36,040
Ammonium chloride .. ..	do.	4,465	4,310	1,124
Liquid ammonia .. ..	do.	15	116	197
Tar and pitch .. ..	do.	117,935	128,093	121,651
Naphthalene .. ..	do.	14,749	5,358	6,694
Anthracene .. ..	do.	1,102	1,400	764
Distillates .. ..	do.	6,956	7,544	8,809
<b>Bulgaria—</b>				
Coal and coke .. ..	Long ton	7,293	8,779	(a)
Ammonium chloride .. ..	do.	66	75	(a)
Liquid ammonia .. ..	do.	29	24	(a)
Carbolic acid .. ..	do.	8	5	(a)
Naphthalene .. ..	do.	333	406	(a)
Creosote, etc. .. ..	do.	465	1,758	(a)
<b>Czechoslovakia—</b>				
Coal .. ..	Long ton	2,423,429	2,293,840	1,852,929
Brown coal .. ..	do.	63,401	105,533	121,379
Coke .. ..	do.	261,770	379,442	212,013
Briquettes .. ..	do.	33,434	37,101	25,399
Ammonium sulphate .. ..	do.	1,091	1,117	119
Ammonium chloride .. ..	do.	439	175	54
Liquid ammonia .. ..	do.	—	21	1
Tar and pitch .. ..	do.	13,829	12,564	11,970
Benzol, etc. .. ..	do.	34	144	305

(a) Information not available.

(i) £ New Zealand.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Czechoslovakia (Cont.)—</b>				
Distillates .. .. .	Long ton	285	94	59
Crude naphthalene .. .. .	do.	6	5	—
Crude carbohc acid .. .. .	do.	6	80	124
Cresol .. .. .	do.	27	49	105
<b>Denmark—</b>				
Coal .. .. .	Long ton	3,162,862	3,947,247	3,638,304
Coke .. .. .	do.	954,617	1,024,000	924,414
Brown coal .. .. .	do.	384	—	—
Briquettes .. .. .	do.	325,668	340,125	267,376
Ammonium sulphate .. .. .	do.	43,290	47,833	37,038
Ammonium chloride .. .. .	do.	337	434	446
Tar and pitch .. .. .	do.	8,505	7,520	8,374
Benzol .. .. .	do.	621	792	999
Carbohc acid .. .. .	do.	6	9	13
<b>Estonia—</b>				
Coal .. .. .	Long ton	89,299	100,265	90,864
Coke .. .. .	do.	4,390	2,548	3,232
Ammonium sulphate .. .. .	do.	166	520	199
Ammonium chloride .. .. .	do.	12	28	21
Liquid ammonia .. .. .	do.	12	—	—
Tar .. .. .	do.	1,059	858	879
Naphthalene .. .. .	do.	13	10	10
Carbohc acid .. .. .	do.	15	1	2
Benzol .. .. .	do.	2	4	1
<b>Finland—</b>				
Anthracite .. .. .	Long ton	87	600	1,727
Bituminous .. .. .	do.	924,194	956,920	900,583
Brown coal, briquettes, etc. .. .. .	do.	17	21	1,380
Coke .. .. .	do.	135,152	193,942	160,262
Ammonium sulphate .. .. .	do.	179	281	156
Ammonium chloride .. .. .	do.	26	24	20
Tar and pitch .. .. .	do.	4,223	3,552	1,463
Creosote and cresol .. .. .	do.	1,360	1,262	1,119
Naphthalene .. .. .	do.	72	89	77
Benzol .. .. .	do.	62	109	1,794
Carbolineum .. .. .	do.	200	172	150
Liquid ammonia .. .. .	do.	16	18	19

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>France—</b>				
Coal .. .. .	Long ton	17,234,065	23,295,963	24,336,204
Coke .. .. .	do.	5,283,345	5,364,532	4,493,384
Briquettes .. .. .	do.	1,142,383	1,277,373	1,351,762
Ammonium sulphate .. .. .	do.	192,370	103,511	91,094
Liquid ammonia .. .. .	do.	23	38	51
Tar and pitch .. .. .	do.	288,306	523,823	496,687
Naphthalene, etc. .. .. .	do.	3,560	4,087	4,440
Carbolic acid, etc. .. .. .	do.	695	984	1,173
Benzol .. .. .	do.	5,568	4,644	5,672
<b>Germany—</b>				
Coal .. .. .	Long ton	7,291,117	7,778,124	6,823,942
Brown coal .. .. .	do.	2,723,861	2,744,132	2,181,525
Coke .. .. .	do.	258,322	430,645	418,119
Coal briquettes .. .. .	do.	11,503	21,807	31,977
Brown-coal briquettes .. .. .	do.	151,654	143,477	90,048
Ammonium sulphate .. .. .	do.	236	209	44,054
Ammonium chloride .. .. .	do.	22	79	108
Liquid ammonia .. .. .	do.	372	1,349	501
Tar and pitch .. .. .	do.	29,548	39,389	18,875
Naphthalene .. .. .	do.	4,228	3,586	1,737
Anthracene .. .. .	do.	722	1,611	181
Carbolic acid .. .. .	do.	2,523	2,051	1,818
Cresol .. .. .	do.	2,135	909	570
Light coal-tar oils, etc. .. .. .	do.	160,301	162,469	167,120
Heavy coal-tar oils, etc. . . . .	do.	8,771	10,147	7,754
<b>Greece—</b>				
Coal .. .. .	Long ton	684,412	773,036	814,191
Naphthalene .. .. .	do.	530	552	505
Pitch .. .. .	do.	399	321	327
<b>Hungary—</b>				
Coal .. .. .	Long ton	1,166,586	1,255,619	834,289
Brown coal .. .. .	do.	21,952	22,869	15,356
Coke .. .. .	do.	446,486	551,653	367,533
Briquettes .. .. .	do.	1,912	636	237
Ammonium sulphate .. .. .	do.	1,651	872	1,389
Liquid ammonia .. .. .	do.	26	31	60
Tar and pitch .. .. .	do.	6,843	10,062	9,076
Benzols .. .. .	do.	7,145	3,818	4,355
Carbolic acid and cresol .. .. .	do.	9	17	11
Anthracene, etc. . . . .	do.	162	175	90
<b>Iceland—</b>				
Coal .. .. .	Long ton	144,975	} 160,387	(a)
Coke .. .. .	do.	1,130		

(a) Information not available.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Italy—</b>				
Anthracite .. ..	Long ton	1,078,547	1,460,765	1,231,604
Bituminous coal .. ..	do.	10,417,049	11,547,857	10,480,043
Lignite .. ..	do.	76,602	63,729	52,501
Coke .. ..	do.	644,111	1,060,193	715,211
Briquettes .. ..	do.	192,963	181,083	160,144
Ammonium sulphate .. ..	do.	14,212	10,927	20,809
Ammonium chloride .. ..	do.	463	651	583
Liquid ammonia .. ..	do.	88	66	59
Tar and tar oils .. ..	do.	15,162	8,767	18,864
Carbolic acid .. ..	do.	687	662	555
Naphthalene .. ..	do.	1,246	2,713	1,538
Benzol, toluol and xylol..	do.	6,202	7,224	8,114
<b>Jugoslavia—</b>				
Anthracite .. ..	Long ton	55,119	60,498	49,437
Bituminous coal .. ..	do.	253,687	315,166	280,970
Brown coal .. ..	do.	35,818	31,022	14,724
Coke .. ..	do.	171,455	242,332	190,995
Briquettes .. ..	do.	7,096	4,418	38,304
Ammonium sulphate .. ..	do.	329	383	428
Ammonium chloride .. ..	do.	130	109	150
Liquid ammonia .. ..	do.	198	154	180
Tar .. ..	do.	2,577	3,328	2,950
Light oils .. ..	do.	328	539	843
Heavy oils .. ..	do.	2,574	1,997	6,873
Naphthalene .. ..	do.	281	346	297
<b>Latvia—</b>				
Coal .. ..	Long ton	464,405	577,739	598,926
Coke .. ..	do.	45,800	50,022	51,717
Briquettes .. ..	do.	4,911	19,255	330
Ammonium sulphate .. ..	do.	174	1,140	251
Ammonium chloride .. ..	do.	28	20	25
Tar and pitch .. ..	do.	2,601	4,331	3,331
Carbolic acid .. ..	do.	13	6	33
Naphthalene .. ..	do.	63	21	49
<b>Lithuania—</b>				
Coal .. ..	Long ton	172,050	235,516	203,258
Coke .. ..	do.	8,830	15,458	11,382
Briquettes .. ..	do.	12,696	12,996	7,482
Carbolic acid .. ..	do.	6	495	11
Naphthalene .. ..	do.	21	17	11
Tar .. ..	do.	(a)	1,783	2,063

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

Importing Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Netherlands—				
Coal .. .. .	Long ton	8,621,452	9,466,497	8,969,309
Brown coal .. .. .	do.	528	—	54
Coke .. .. .	do.	296,534	364,965	284,706
Briquettes .. .. .	do.	328,382	322,114	325,298
Brown-coal briquettes .. .. .	do.	166,109	182,725	162,283
Ammonium sulphate .. .. .	do.	136,908	124,475	30,235
Ammonium chloride .. .. .	do.	280	314	342
Liquid ammonia .. .. .	do.	573	849	(a)
Tar .. .. .	do.	3,631	9,985	19,764
Creosote .. .. .	do.	4,071	1,067	20,291
Naphthalene .. .. .	do.	405	400	340
Carbolic acid .. .. .	do.	126	148	105
Benzol .. .. .	do.	294	314	2,328
Toluol and xylol .. .. .	do.	72	164	111
Naphtha .. .. .	do.	300	238	132
Norway—				
Coal .. .. .	Long ton	2,087,665	2,385,342	2,231,000
Coke .. .. .	do.	474,992	442,101	380,338
Ammonium sulphate .. .. .	do.	371	204	279
Tar and pitch, etc. .. .. .	do.	7,158	5,373	3,349
Creosote, etc. .. .. .	do.	2,879	3,592	2,439
Poland—				
Anthracite .. .. .	Long ton	270	290	128
Bituminous coal .. .. .	do.	48,656	59,541	31,659
Brown coal .. .. .	do.	26	182	49
Briquettes .. .. .	do.	17,643	21,093	14,679
Coke .. .. .	do.	177,883	229,291	114,772
Ammonium sulphate .. .. .	do.	1,180	308	15
Ammonium chloride .. .. .	do.	184	203	146
Liquid ammonia .. .. .	do.	6	3	10
Tar and pitch .. .. .	do.	16,884	17,649	8,320
Creosote, etc. .. .. .	do.	44	1,525	1,423
Benzol .. .. .	do.	67	2,280	1,087
Carbolic acid, etc. .. .. .	do.	189	61	24
Anthracene, etc. .. .. .	do.	551	189	39
Portugal—				
Coal and coke .. .. .	Long ton	1,127,941	1,120,737	1,216,267
Briquettes .. .. .	do.	19,653	7,944	580
Ammonium sulphate .. .. .	do.	11,726	14,981	24,018
Tar and pitch .. .. .	do.	784	636	3,348
Carbolic acid .. .. .	do.	2	2	2
Naphthalene .. .. .	do.	49	112	83
Ammonium chloride .. .. .	do.	12	50	11

(a) Information not available.

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

Importing Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Rumania—				
Anthracite .. ..	Long ton	(a)	(a)	1,349
Bituminous coal and coke	do.	(a)	(a)	163,108
Brown coal .. ..	do.	(a)	(a)	207
Briquettes .. ..	do.	(a)	(a)	592
Ammonium sulphate ..	do.	(a)	(a)	1,349
Ammonium chloride ..	do.	(a)	(a)	165
Liquid ammonia .. ..	do.	(a)	(a)	94
Naphthalene .. ..	do.	(a)	(a)	245
Benzol .. ..	do.	(a)	(a)	114
Tar and pitch .. ..	do.	(a)	(a)	862
Russia (years ended Sept. 30)				
Coal .. ..	Long ton	60,407	52,498	68,089
Coke and briquettes ..	do.	61	50	27
Pitch .. ..	do.	8	18	—
Benzol, etc. .. ..	do.	5	1	10
Carbolic acid .. ..	do.	90	42	13
Cresol .. ..	do.	141	90	65
Spain (total imports)—				
Anthracite .. ..	Long ton	111,520	119,367	102,796
Bituminous coal .. ..	do.	1,486,147	1,606,137	1,278,829
Other coal .. ..	do.	10,230	13,496	6,691
Coke .. ..	do.	203,301	287,003	243,462
Briquettes .. ..	do.	46,711	24,804	22,465
Ammonium sulphate ..	do.	212,437	237,366	237,692
Benzol, toluol, xylol, etc.	do.	7	33	67
Cresol and carbolic acid..	do.	47	40	24
Creosote .. ..	do.	60	1,301	329
Tar and pitch .. ..	do.	47,936	64,607	45,009
Naphthalene, etc. ..	do.	25	3	4
Sweden—				
Anthracite .. ..	Long ton	72,525	71,915	74,538
Bituminous coal .. ..	do.	3,931,222	4,843,564	4,623,169
Coke .. ..	do.	1,089,891	1,245,125	1,167,728
Briquettes .. ..	do.	23,281	15,998	7,320
Ammonium sulphate ..	do.	792	1,577	3,940
Ammonium chloride ..	do.	247	310	312
Liquid ammonia .. ..	do.	76	36	(a)
Tar, pitch, etc. .. ..	do.	4,692	4,452	4,002
Benzol oils .. ..	do.	256	118	1,043
Carbolineum .. ..	do.	21	57	(a)
Naphthalene .. ..	do.	121	134	(a)
Carbolic acid, etc. ..	do.	6,446	5,348	5,134



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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Switzerland—</b>				
Coal .. .. .	Long ton	1,878,018	2,032,973	1,954,504
Lignite .. .. .	do.	232	390	619
Coke .. .. .	do.	591,218	787,185	652,014
Briquettes .. .. .	do.	511,599	587,234	490,753
Ammonium sulphate, etc.	do.	1,367	2,071	3,096
Ammonium chloride ..	do.	219	210	212
Liquid ammonia .. ..	do.	45	43	52
Tar and pitch .. .. .	do.	27,567	24,984	40,261
Creosote, etc. .. .. .	do.	1,395	1,197	1,006
Naphthalene, etc. .. .	do.	6,535	7,306	7,601
<b>Algeria—</b>				
Coal .. .. .	Long ton	446,186	557,149	610,044
Coke .. .. .	do.	2,892	2,208	1,852
Briquettes .. .. .	do.	230,695	312,926	270,106
Ammonium sulphate ..	do.	6,809	9,686	5,536
Tar .. .. .	do.	6,537	8,930	12,494
Benzol .. .. .	do.	112	224	83
<b>Angola—</b>				
Coal .. .. .	Long ton	24,791	(a)	(a)
Coke .. .. .	do.	183	(a)	(a)
<b>Belgian Congo—</b>				
Coal .. .. .	Long ton	275,875	300,462	245,620
Coke .. .. .	do.	125,839	91,377	74,132
Briquettes .. .. .	do.	55,269	66,935	76,772
<b>Cameroon (French)—</b>				
Coal .. .. .	Long ton	4,207	1,575	(a)
<b>Cape Verde Islands—</b>				
Coal (c) .. .. .	Long ton	241,323	312,829	(a)
<b>Dahomey—</b>				
Coal .. .. .	Long ton	4,861	4,974	3,700
Tar .. .. .	do.	56	60	59
<b>Egypt—</b>				
Coal .. .. .	Long ton	1,167,772	1,152,964	1,143,907
Coke .. .. .	do.	14,686	31,463	17,278
Briquettes .. .. .	do.	23,869	47,644	34,923
Ammonium sulphate ..	do.	4,409	2,254	3,156
Ammonium chloride ..	do.	278	282	331
Liquid ammonia .. ..	do.	36	39	(a)
Pitch .. .. .	do.	5,405	7,304	(a)
Naphthalene .. .. .	do.	143	118	109
Carbolic acid .. .. .	do.	22	11	(a)

(a) Information not available.

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

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

Importing Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
French Guinea—				
Coal, coke and briquettes	Long ton	158	24	49
Tar .. .. .	do.	46	16	11
French Equatorial Africa—				
Coal .. .. .	Long ton	806	817	2,136
Tar .. .. .	do.	64	42	44
Ivory Coast—				
Coal, coke and briquettes	Long ton	1,015	1,883	2,666
Tar .. .. .	do.	43	25	67
Madagascar—				
Coal and coke .. ..	Long ton	39,558	43,712	45,010
Morocco—				
Coal .. .. .	Long ton	144,791	173,203	170,332
Coke .. .. .	do.	803	4,469	5,566
Tar and bitumen ..	do.	6,218	10,851	14,104
Mozambique—				
Coal .. .. .	Long ton	75,250	152,608	(a)
Coke .. .. .	do.	137	127	(a)
Tar and pitch .. ..	do.	90	217	(a)
Réunion—				
Coal (c) .. .. .	Long ton	6,257	6,082	5,583
Ammonium sulphate ..	do.	660	844	1,400
Senegal—				
Coal, coke, etc. (c) ..	Long ton	269,391	284,096	239,983
Tar .. .. .	do.	130	54	71
Togoland—				
Briquettes .. .. .	Long ton	2,196	—	(a)
Tar .. .. .	do.	88	92	(a)
Tunis—				
Coal .. .. .	Long ton	206,991	223,995	232,056
Coke .. .. .	do.	7,668	7,312	6,958
Briquettes .. .. .	do.	10,861	22,008	26,258
Tar .. .. .	do.	8,427	2,103	7,718
Cuba (b)—				
Coal .. .. .	Long ton	581,331	575,432	(a)
Coke .. .. .	do.	29,363	46,946	(a)
Creosote oil .. .. .	do.	95	167	(a)
Tar .. .. .	do.	296	156	(a)
Dominican Republic (b)—				
Coal .. .. .	Long ton	6,046	8,373	9,986
French West Indies—				
Martinique—				
Coal .. .. .	Long ton	130,599	125,875	(a)
Coke .. .. .	do.	41	70	(a)
Ammonium sulphate ..	do.	2,897	2,580	3,280
Tar .. .. .	do.	35	37	(a)

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

Importing Country and Description.	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Guatemala—				
Coal .. .. .	Long ton	383	820	(a)
Tar .. .. .	do.	33	31	(a)
Costa Rica (total imports)—				
Coal .. .. .	Long ton	643	7,761	(a)
Ammonia .. .. .	do.	44	(a)	(a)
Tar .. .. .	do.	90	(a)	(a)
Mexico—				
Coal .. .. .	Long ton	82,668	63,850	49,704
Coke .. .. .	do.	—	—	1,489
Tar and pitch .. .. .	do.	933	—	—
Benzol .. .. .	do.	6	—	3
Salvador—				
Coal and briquettes ..	Long ton	4,356	9,291	(a)
United States—				
Anthracite .. .. .	Long ton	343,488	(b)434,975	(b)602,511
Bituminous coal .. .. .	do.	479,215	(b)442,160	(b)215,076
Coke .. .. .	do.	131,876	106,896	118,459
Ammonium sulphate .. .. .	do.	42,066	18,812	33,784
Ammonium chloride .. .. .	do.	4,921	4,268	2,959
Tar and pitch .. .. .	do.	2,404	3,472	3,535
Creosote oil .. .. .	Gallon	73,654,228	66,083,813	55,751,523
Naphthalene .. .. .	Long ton	8,896	15,628	12,351
Carbolic acid .. .. .	do.	437	1,240	570
Argentina—				
Coal .. .. .	Long ton	3,072,662	3,085,932	3,013,188
Coke .. .. .	do.	39,984	39,914	30,988
Ammonium sulphate .. .. .	do.	65	44	81
Liquid ammonia .. .. .	do.	30	29	25
Tar and pitch .. .. .	do.	508	650	382
Naphthalene .. .. .	do.	340	524	400
Carbolic acid .. .. .	do.	124	265	235
Bolivia—				
Coal, coke and briquettes	Long ton	34,020	18,886	(a)
Brazil (total imports)—				
Coal .. .. .	Long ton	1,919,456	2,034,696	1,718,253
Coke .. .. .	do.	30,140	30,854	21,169
Briquettes .. .. .	do.	197,729	222,594	171,853
Liquid ammonia .. .. .	do.	199	201	189
Tar and pitch .. .. .	do.	387	547	228

(a) Information not available.

(b) Total imports. Re-exports of coal were 30,200 and 63,465 tons in 1929 and 1930 respectively.

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

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Chile—</b>				
Coal .. .. .	Long ton	63,759	38,289	3,463
Coke .. .. .	do.	15,331	22,049	13,073
Patent fuel .. .. .	do.	6,955	10,971	2,368
Liquid ammonia.. .. .	do.	44	56	47
Ammonium chloride .. .. .	do.	210	(a)	(a)
Creosote, etc. .. .. .	do.	336	1	6
Naphthalene, etc. .. .. .	do.	9	18	16
Carbolic acid .. .. .	do.	2,275	606	1,157
<b>Colombia—</b>				
Coal .. .. .	Long ton	2,879	751	(a)
Tar and pitch .. .. .	do.	121	89	(a)
Carbolic acid .. .. .	do.	8	7	(a)
Cresol, creolin, etc. .. .. .	do.	426	444	(a)
<b>Ecuador—</b>				
Coal, coke, etc. .. .. .	Long ton	1,192	466	582
Creosote, etc. .. .. .	do.	(a)	1	17
Creolin .. .. .	do.	37	44	46
<b>French Guiana—</b>				
Coal .. .. .	Long ton	5	64	(a)
<b>Peru—</b>				
Coal .. .. .	Long ton	28,585	36,881	(a)
Coke .. .. .	do.	1,622	3,983	(a)
Ammonium salts .. .. .	do.	40	46	(a)
Liquid ammonia.. .. .	do.	60	47	(a)
Tar .. .. .	do.	362	270	(a)
Naphthalene .. .. .	do.	14	14	(a)
<b>Uruguay—</b>				
Coal .. .. .	Long ton	345,328	466,224	(a)
Liquid ammonia .. .. .	do.	40	48	(a)
<b>Venezuela—</b>				
Coal .. .. .	Long ton	13,581	23,803	(a)
Liquid ammonia .. .. .	do.	8	3	(a)
Aniline .. .. .	do.	53	46	(a)
Creolin, etc. .. .. .	do.	210	291	(a)
<b>China—</b>				
Coal .. .. .	Long ton	2,426,648	2,281,230	2,467,042
Coke .. .. .	do.	6,284	4,937	6,903
Ammonium sulphate .. .. .	do.	104,452	110,557	186,514
Ammonium chloride .. .. .	do.	175	113	3,578
Tar and pitch .. .. .	do.	4,087	4,139	1,063
Carbolic acid .. .. .	do.	363	254	264

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.).</b>				
<b>Formosa—</b>				
Coal .. .. .	Long ton	29,752	11,119	(a)
Coke .. .. .	do.	7,844	6,924	(a)
Ammonium sulphate ..	do.	99,394	85,905	(a)
Tar .. .. .	do.	667	738	(a)
<b>French Indo-China—</b>				
Coal .. .. .	Long ton	40,551	40,559	33,000
Coke .. .. .	do.	623	440	(a)
Ammonium sulphate ..	do.	104	332	(a)
Ammonium chloride ..	do.	5	28	(a)
Ammonia .. .. .	do.	16	(a)	(a)
Tar .. .. .	do.	9,145	10,670	3,900
Distillates .. .. .	do.	66	54	(a)
<b>Japan (total imports)—</b>				
Coal .. .. .	Long ton	2,734,831	3,203,232	2,650,280
Coke .. .. .	do.	5,567	5,264	2,024
Ammonium sulphate ..	do.	279,987	374,646	298,221
Ammonium chloride ..	do.	2,899	2,464	2,145
Carbolic acid .. .. .	do.	643	218	95
Naphthalene .. .. .	do.	1,238	1,296	2,480
Distillates .. .. .	do.	1,432	1,817	1,470
<b>Korea (total imports)—</b>				
Coal .. .. .	Long ton	882,472	894,285	920,885
Coke .. .. .	do.	12,705	12,505	11,895
Ammonium sulphate ..	do.	60,000	(a)	(a)
Benzol .. .. .	do.	(a)	78	121
Tar and pitch .. .. .	do.	4,709	5,242	4,073
<b>Netherlands East Indies—</b>				
Coal .. .. .	Long ton	114,268	150,972	(a)
Coke .. .. .	do.	7,775	14,433	(a)
Ammonium sulphate ..	do.	128,428	119,809	(a)
Ammonium chloride ..	do.	15	10	(a)
Liquid ammonia .. .. .	do.	241	239	(a)
Tar .. .. .	do.	3,303	2,854	(a)
Benzol .. .. .	do.	6	109	(a)
Carbolineum .. .. .	do.	280	427	(a)
Carbolic acid .. .. .	do.	96	33	(a)
Creosote, etc. .. .. .	do.	1,054	155	(a)
Naphthalene .. .. .	do.	148	194	(a)

(a) Information not available.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Philippine Islands—</b>				
Coal .. .. .	Long ton	541,081	591,924	525,575
Coke .. .. .	do.	1,844	1,785	2,054
Ammonium sulphate ..	do.	22,393	26,980	27,137
Anhydrous ammonia ..	£	2,846	4,041	4,306
Carbolic acid .. ..	Long ton	3	5	5
<b>Persia (total imports), (g)—</b>				
Coal, coke and peat ..	Long ton	4,596	701	882
Tar .. .. .	do.	103	150	256
<b>Siam (total imports)—</b>				
Coal .. .. .	Long ton	39,521	35,691	34,612
Coke .. .. .	do.	2,038	3,606	2,540
<b>Syria and Lebanon—</b>				
Anthracite .. .. .	Long ton	(a)	2,880	3,554
Other coal .. .. .	do.		2,659	24,589
Briquettes .. .. .	do.		36,097	47,964
Coke .. .. .	do.		6,218	2,537
Tar .. .. .	do.		21	196
Naphthalene .. .. .	do.		46	29
<b>Turkey—</b>				
Coal, coke and lignite ..	Long ton	29,863	102,998	64,195
Cresol and naphthalene	do.	160	286	171
Liquid ammonia and ammonium chloride	do.	180	113	167
<b>New Caledonia—</b>				
Coal .. .. .	Long ton	36,544	68,596	81,473
Coke .. .. .	do.	61,086	16,786	16,424
Ammonium sulphate ..	do.	—	—	5

(a) Information not available.

(g) Years ended March 21.

**COBALT**

---

PRODUCTION OF COBALT

(Cwt.)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Union of South Africa (ore)	—	3	—
Canada (c) .. .. .	8,541	8,298	6,198
India (b) .. .. .	2,000	2,200	(a)
Australia (metal) .. .. .	155	400	70
<b>FOREIGN COUNTRIES</b>			
Belgian Congo (metal and oxide)	9,000	13,936	14,000
Chile .. .. .	33	—	—

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

(a) Information not available.

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

(c) Metal recovered from smelter products, and including cobalt contained in cobalt residues exported.

## EXPORTS OF COBALT, ETC.

*(Domestic Produce)*

(Cwt.)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Cobalt and cobalt alloys	40	103	130
Cobalt oxide .. ..	1,605	1,244	1,015
Canada—			
Cobalt ore .. ..	(£108,969)	(b) 3,387	(b) 3,568
Cobalt .. .. .	2,152	2,819	348
Cobalt alloys .. ..	157	505	356
Cobalt oxides and salts	3,302	2,115	2,919
Australia (including re- exports)—			
Cobalt ore .. ..	811	1,839	792
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Cobalt salts .. ..	1,334	1,037	138
Czechoslovakia—			
Zaffre and smalt ..	2	4	4
France—			
Cobalt ore .. ..	421	26	6
Cobalt oxide, including zaffre and smalt ..	136	2	132
Cobalt salts .. ..	18	2	6
Belgian Congo—			
Copper-cobalt alloy ..	74,800	97,220	63,760
Chile—			
Cobalt ore .. ..	194	—	(a)

(a) Information not available.

(b) Co content.



## IMPORTS OF COBALT, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Cobalt and cobalt alloys	2,367	4,263	2,263
Cobalt oxide .. ..	1,934	4,788	3,838
Canada—			
Oxides of cobalt, tin and copper .. ..	2,382	2,578	2,173
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Cobalt salts .. ..	98	274	252
Czechoslovakia—			
Zaffre and smalt .. ..	20	250	315
France—			
Cobalt ore .. ..	16	85	533
Cobalt oxide, including zaffre and smalt .. ..	2,069	2,011	2,351
Cobalt salts .. ..	10	18	22
Italy—			
Cobalt oxide .. ..	500	429	275
Poland—			
Cobalt .. .. .	18	6	2
Cobalt salts .. ..	28	87	63
Rumania—			
Cobalt oxide .. ..	(a)	(a)	12
Sweden—			
Cobalt oxide .. ..	84	93	(a)
United States—			
Cobalt ore and metal .. ..	5,745	11,081	5,840
Cobalt oxide .. ..	3,251	4,249	3,803
Colombia—			
Cobalt and its salts .. ..	5	—	(a)
Japan (total imports)—			
Cobalt oxide .. ..	912	1,212	1,039

(a) Information not available.

## COPPER

## PRODUCTION OF COPPER ORE

*(In terms of metal)*

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom ..	68	68	48
Northern Rhodesia (smelter)	5,930	5,466	6,269
Southern Rhodesia (smelter)	109	312	1,313
South West Africa ( <i>d</i> ) ..	11,100	12,400	14,900
Union of South Africa ..	8,662	8,872	8,491
Canada .. ..	90,489	110,768	135,481
Cyprus .. ..	4,900	5,800	5,100
India (estimated) .. ..	5,600	7,500	8,100
Australia .. ..	9,466	12,812	12,984
Total ..	136,000	164,000	193,000
FOREIGN COUNTRIES			
Austria .. ..	2,987	2,048	2,181
Bulgaria (ore) .. ..	10,740	30,875	27,015
Czechoslovakia .. ..	1,599	1,338	2,302
Finland .. ..	1,877	4,635	5,051
France .. ..	261	45	100
Germany .. ..	25,799	28,525	26,546
Italy .. ..	809	869	492
Jugoslavia (estimated) ..	13,000	20,000	23,000
Norway .. ..	17,497	18,738	18,004
Portugal (estimated) ..	2,000	4,000	4,000
Rumania (smelter) ..	102	141	167
Russia (estimated) ..	19,900	26,000	36,000
Spain .. ..	53,000	63,000	58,000
Sweden .. ..	609	1,110	1,200
Algeria .. ..	226	25	( <i>a</i> )
Belgian Congo (smelter) ..	110,680	134,828	136,754
French Equatorial Africa	393	196	( <i>a</i> )
Morocco (French) ..	—	77	( <i>a</i> )
Cuba .. ..	16,847	14,720	16,000

PRODUCTION OF COPPER ORE (*Cont.*)

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Mexico ( <i>b</i> ) .. .. .	64,471	85,187	72,252
United States .. .. .	807,945	890,674	622,500
Bolivia (exports) .. .. .	8,352	7,074	5,200
Chile .. .. .	282,269	315,566	237,761
Peru .. .. .	56,052	53,500	46,800
Formosa (ore) .. .. .	60,488	97,733	( <i>a</i> )
Japan (smelter) .. .. .	67,155	74,277	77,785
Korea (smelter) .. .. .	589	530	571
Turkey (black copper) .. .. .	13	64	—
<b>Total .. .. .</b>	<b>1,550,000</b>	<b>1,750,000</b>	<b>1,400,000</b>
<b>WORLD'S TOTAL</b>	<b>1,690,000</b>	<b>1,920,000</b>	<b>1,590,000</b>

(*a*) Information not available.

(*b*) Amount estimated as recoverable—the estimated content of the ore as mined for 1928 was 72,567 long tons.

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

## METAL PRODUCTION OF COPPER

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom (estimated)	21,100	23,300	19,900
Northern Rhodesia ..	5,930	5,466	6,269
Southern Rhodesia ..	109	312	1,313
Canada (d) .. ..	55,725	71,514	99,951
India .. .. .	—	1,635	(a)
Australia .. .. .	11,858	10,874	14,900
Total ..	95,000	113,000	144,000
FOREIGN COUNTRIES			
Austria .. .. .	3,369	3,834	4,012
Belgium .. .. .	9,566	8,799	(a)
Czechoslovakia .. ..	994	1,665	1,497
Finland .. .. .	369	231	(a)
France (c) .. .. .	1,230	2,500	2,500
Germany (b) .. .. .	47,700	52,700	58,300
Italy .. .. .	886	530	258
Jugoslavia .. .. .	14,848	20,985	24,077
Norway .. .. .	775	2,400	5,068
Rumania .. .. .	102	141	167
Russia (years ended Sept. 30) .. .. .	18,696	30,000	46,700
Spain .. .. .	27,319	28,100	22,615
Sweden .. .. .	3,342	4,673	5,438
Belgian Congo .. ..	110,680	134,828	136,754
Mexico .. .. .	43,625	64,094	55,508
United States .. .. .	897,055	983,015	765,185
Chile .. .. .	269,928	297,732	194,410
Peru .. .. .	51,466	54,216	44,943
China (exports) .. ..	4,326	3,415	1,184
Formosa .. .. .	411	256	(a)
Japan .. .. .	67,155	74,277	77,785
Korea .. .. .	589	530	571
Total ..	1,570,000	1,770,000	1,460,000
WORLD'S TOTAL	1,670,000	1,880,000	1,600,000

(a) Information not available.

(b) *Metallgesellschaft* figures.

(c) Includes some matte.

(d) Copper content of blister copper.

## EXPORTS OF COPPER, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc. . . . .	5,854	14,584	5,460
Bars, ingots, etc.—			
Electrolytic . . . . .	341	1,298	1
Other . . . . .	6,973	12,135	8,062
Scrap . . . . .	4,931	4,612	3,451
Plates, sheets, etc. . . . .	6,935	5,753	6,352
Rods . . . . .	2,332	1,721	1,191
Tubes . . . . .	1,990	1,802	1,408
Wire . . . . .	10,500	9,770	8,902
Sulphate . . . . .	47,857	41,574	42,359
Northern Rhodesia—			
Ore and concentrates . . . . .	463	213	129
Bars and ingots . . . . .	5,725	5,808	5,346
South West Africa—			
Copper - lead ore and matte . . . . .	56,481	65,045	55,084
Union of South Africa—			
Ore and concentrates . . . . .	14	75	72
Blister . . . . .	2,502	2,251	1,048
Bars, ingots, etc. . . . .	5,074	5,262	5,823
Canada—			
Ore, matte, etc. ( <i>Cu con-</i> <i>tent</i> ) . . . . .	34,120	38,839	33,395
Blister . . . . .	46,770	66,195	65,858
Scrap . . . . .	4,001	5,161	3,020
Bars, sheets, tubes, etc. . . . .	71	59	3,107
Newfoundland ( <i>b</i> )—			
Concentrates . . . . .	—	—	1,000
British India—			
Ore . . . . .	10	—	—
Matte, etc. . . . .	11,547	10,509	16,724
British Malaya (including re-exports)—			
Ingots, bars, sheets, etc. . . . .	55	84	139

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

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

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE (Cont.)			
Cyprus—			
Cupreous pyrites ..	240,060	291,100	238,448
Precipitate .. ..	10	54	10
Australia (including re-exports)—			
Ore, etc. ( <i>Cu content</i> ) ..	1,988	2,130	999
Matte .. .. .	4,056	3,801	3,155
Blocks and ingots ..	4,189	3,064	9,520
Bars, sheets, wire, etc.	36	51	7
Papua—			
Copper and copper ore ..	16	—	8
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	332	241	114
Rough copper and scrap	2,278	2,885	2,187
Bars, sheets, wire, etc.	2,639	2,763	2,510
Sulphate.. .. .	131	35	17
Belgium-Luxemburg E.U.—			
Ore .. .. .	7,230	9,738	8,501
Rough copper and scrap	31,143	35,321	70,723
Sheets, wire, etc. ..	4,865	9,649	11,944
Sulphate.. .. .	15,587	18,254	15,051
Bulgaria—			
Ore .. .. .	799	1,505	(a)
Ingot and scrap ..	39	42	(a)
Czechoslovakia—			
Ore .. .. .	6,116	4,601	6,172
Crude, refined and scrap	3,768	4,789	5,051
Sheets, rods, wire, etc.	476	279	332
Denmark—			
Bars, sheets, wire, etc. . .	106	71	(a)
Estonia—			
Scrap .. .. .	119	179	110
Finland—			
Ore .. .. .	22,777	48,018	54,284
Rough copper and scrap	294	537	262

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
France—			
Ore, matte, etc... ..	1,783	4,766	6,627
Precipitate, ingots, etc.,	1,617	1,843	6,332
Scrap .. .. .	4,183	5,365	4,585
Bars, sheets and wire ..	28,633	28,031	29,554
Sulphate .. .. .	4,823	3,672	4,922
Germany—			
Ore, matte, etc. ..	1,110	8,283	9,673
Rough copper .. ..	21,452	31,333	42,389
Coin and scrap .. ..	3,225	3,304	4,060
Bars, sheets, wire, etc. ..	27,870	30,280	34,862
Hungary—			
Rough copper and scrap (including brass) ..	84	96	204
Bars, sheets, wire, etc... ..	1,227	1,688	1,682
Sulphate .. .. .	339	122	56
Italy—			
Ore .. .. .	2,134	1,575	1,307
Ingots, scrap and alloyed Bars, sheets, wire, etc., and alloyed .. .. .	2,543	1,744	1,356
Sulphate.. .. .	480	191	346
Sulphate.. .. .	9,693	5,110	5,648
Jugoslavia—			
Ore .. .. .	16	10	17
Ingots and scrap .. ..	14,825	18,934	24,277
Sulphate .. .. .	—	31	1
Latvia—			
Bars and scrap.. .. .	49	62	34
Netherlands—			
Ore .. .. .	12	1	—
Ingots, bars and tubes.. ..	425	417	337
Scrap .. .. .	2,358	2,147	1,551
Sheets, cable and wire ..	974	1,110	1,145
Sulphate .. .. .	7	12	19
Norway—			
Cupreous pyrites .. ..	430,910	445,143	420,718
Other ore .. .. .	6,170	14,993	1,186
Burnt cupreous pyrites	45,266	42,252	34,595
Matte .. .. .	845	1,943	1,569

(a) Information not available.

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

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Norway (Cont.)—			
Refined copper .. ..	504	1,870	4,155
Scrap, including brass ..	1,046	1,369	(a)
Sheets, tubes, wire, etc., including brass .. ..	301	211	(a)
Poland—			
Precipitate and scrap ..	2	45	15
Pigs, bars and ingots ..	1	76	28
Sheets, tubes and wire ..	5	22	5
Sulphate.. .. .	22	23	158
Portugal—			
Ore and cupreous pyrites	220,333	284,852	352,687
Precipitate .. ..	584	93	793
Sulphate .. ..	109	170	73
Rumania—			
Ore .. .. .	46	(a)	145
Rough and scrap .. ..	201	(a)	148
Russia (years ended Sept. 30)—			
Copper .. .. .	75	10	43
Spain (including re-exports)—			
Ore—			
Not more than 2½ % copper .. .. .	845,520	895,721	755,358
More than 2½ % copper .. .. .	29	1,773	2,700
Precipitate and scrap (c)	14,873	15,352	16,673
Ingots (c) .. .. .	7,522	7,288	6,084
Sulphate.. .. .	49	14	36
Sweden—			
Ore .. .. .	2,699	2,428	1,001
Rough copper .. ..	1,941	3,289	4,715
Sheets, tubes, wire, etc.	4,468	4,549	5,815
Sulphate .. .. .	7	118	(a)
Switzerland—			
Ore, filings and turnings	2,399	2,775	1,730
Bars, ingots, etc. (c) ..	406	390	369
Scrap (c) .. .. .	1,146	804	542
Sheets, tubes, wire, etc. (c)	6,865	8,073	6,070



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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Ore, matte, etc... ..	5,870	286	51
Bars, sheets and wire ..	7	80	44
Scrap .. .. .	632	638	441
Angola—			
Copper .. .. .	2	(a)	(a)
Belgian Congo—			
Ore .. .. .	372	9	444
Matte .. .. .	(a)	(a)	964
Ingots .. .. .	104,348	120,678	144,431
Copper-cobalt alloy ..	3,750	4,361	3,619
Egypt—			
Ingots, including brass ..	46	22	(a)
French Equatorial Africa—			
Ore .. .. .	578	433	738
Morocco—			
Ingots and scrap ..	220	232	—
Tunis (including re-exports)—			
Ore .. .. .	49	2	—
Cuba—			
Ore .. .. .	69,862	57,133	(a)
Mexico—			
Ores, concentrates, etc. (Cu content) .. ..	20,846	21,093	60,643
Copper .. .. .	43,625	64,094	55,508
United States—			
Unrefined copper (Cu content) .. ..	1,711	2,491	80
Refined ingots, etc. ..	423,873	367,167	267,484
Scrap .. .. .	24,762	16,802	15,123
Sheets, rods, wire, etc. ..	43,123	48,092	46,683
Sulphate .. .. .	3,869	2,866	2,260
Argentina—			
Ore .. .. .	87	139	1,291

(a) Information not available.

(c) Including alloys.

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Bolivia—			
Ore, etc. ( <i>Cu content</i> ) ..	8,352	7,074	(a)
Chile—			
Ore and concentrates ..	68,932	114,677	84,170
Precipitate .. ..	21	41	488
Ingots .. .. .	267,641	303,436	192,928
Peru—			
Ores ( <i>Cu content</i> ) ..	598	776	(a)
Mattes, etc. (do.) ..	26	64	(a)
Bars (do.) ..	50,515	51,992	(a)
Precipitate (do.) ..	60	52	(a)
Venezuela—			
Scrap .. .. .	20	56	(a)
China—			
Ingots and blocks ..	4,326	3,415	1,184
Formosa—			
Copper .. .. .	154	175	(a)
Japan—			
Ingots and blocks ..	115	2,100	19,022
Plates, sheets and wire..	2,559	3,553	3,142
Korea—			
Ingots .. .. .	571	1,002	982
Netherlands East Indies—			
Scrap .. .. .	787	1,296	(a)
Philippine Islands—			
Scrap .. .. .	324	444	311
Turkey—			
Ore and scrap .. ..	145	136	114
Ingots, bars, sheets and wire, including alloys	124	55	747

(a) Information not available.

## IMPORTS OF COPPER, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc. ..	45,809	38,415	45,487
Bars, ingots, etc.—			
Electrolytic .. ..	104,796	102,183	94,225
Other .. .. .	39,208	45,421	38,706
Scrap copper .. ..	2,543	3,221	3,267
Plates, sheets, etc. ..	1,993	3,201	3,259
Rods .. .. .	14,683	14,921	24,693
Tubes .. .. .	2,074	2,031	1,774
Wire .. .. .	4,312	6,889	6,743
Sulphate .. .. .	429	223	185
Irish Free State—			
Sheets, wire, tubes, etc.	1,413	1,222	1,015
Sulphate .. .. .	3,810	3,648	2,898
Kenya and Uganda—			
Sheets and wire ..	72	118	148
Mauritius (total imports)—			
Bars, sheets, scrap, etc.	36	21	(a)
Northern Rhodesia—			
Bars, sheets, etc. ..	3	7	5
Southern Rhodesia—			
Ingots, sheets, scrap, etc.	426	2	(a)
South West Africa—			
Bars, sheets, pipes, etc. ..	10	16	8
Tanganyika Territory—			
Sheets and wire ..	81	81	92
Union of South Africa—			
Bars, ingots and slabs..	60	257	175
Plates, sheets and tubes	671	444	529
Wire .. .. .	181	199	235
Canada—			
Blocks, pigs and ingots.	3,519	5,395	3,512
Scrap copper .. ..	2,503	2,214	645
Bars, sheets, wire, etc. ..	19,002	27,657	16,503
Sulphate .. .. .	2,397	1,951	2,686
West Indies (Barbados)—			
Bars and sheets .. ..	(£466)	(£932)	(£809)

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>			
British Honduras—			
Sheets and rods .. ..	(£826)	(£700)	(a)
British India (total imports)—			
Pyrites .. .. .	7	5,597	2
Scrap .. .. .	664	245	496
Ingots, cakes, blocks, etc.	1,762	851	711
Sheets, tubes, wire, etc.	11,224	6,765	7,207
Sulphate .. .. .	897	1,309	996
British Malaya (total imports)—			
Bars, ingots, sheets, etc.	1,161	908	815
Cyprus—			
Bars, sheets, etc. ..	52	84	31
Australia—			
Ore .. .. .	5	—	3
Concentrates .. ..	—	2	4,144
Matte ( <i>Cu content</i> ) ..	2	5	2
Blocks, ingots .. ..	60	99	16
Bars, sheets, wire, etc...	1,947	1,807	1,279
New Zealand—			
Bars, sheets, pipes, etc.	650	682	596
Wire (£ New Zealand) ..	(£170,059)	(£133,134)	(£183,832)
Sulphate .. .. .	126	167	166
<b>FOREIGN COUNTRIES</b>			
Austria—			
Ore .. .. .	4,458	3,323	5,569
Rough copper .. ..	15,619	14,975	9,808
Scrap .. .. .	1,678	1,459	2,083
Bars, sheets, wire, etc. ..	241	166	179
Sulphate .. .. .	22	4	301
Belgium-Luxemburg E.U.—			
Ore .. .. .	59,529	59,739	52,436
Rough copper and scrap	73,667	94,113	93,796
Sheets, wire, etc. ..	5,061	5,700	4,698
Sulphate .. .. .	111	40	13
Bulgaria—			
Bars, sheets, and wire ..	978	1,217	(a)
Sulphate .. .. .	3,480	2,590	(a)

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Czechoslovakia—</b>			
Ore .. .. .	83	—	—
Crude, refined and scrap	22,347	18,702	21,271
Sheets, tubes, wire, etc.	596	619	492
<b>Denmark—</b>			
Rough and alloys ..	1,476	1,267	1,849
Bars, pipes, wire, etc. ..	4,022	4,165	(a)
<b>Estonia—</b>			
Ingots, sheets, wire, etc.	337	227	268
Sulphate.. .. .	5	6	5
<b>Finland—</b>			
Rough and scrap ..	76	87	192
Sheets, tubes and wire..	3,043	2,955	2,220
Sulphate.. .. .	32	43	41
<b>France—</b>			
Ore, matte, etc... ..	3,970	826	3,973
Precipitate, ingots, etc.,	131,050	146,413	132,015
Scrap .. .. .	20,776	21,270	19,899
Bars, sheets and wire ..	5,456	10,146	11,633
Sulphate .. .. .	25,859	21,943	27,925
<b>Germany—</b>			
Ore, <del>matte</del> , etc. ..	358,496	431,170	434,818
Rough copper .. ..	223,398	191,556	167,047
Coin and scrap .. ..	25,626	25,268	19,870
Bars, sheets, wire, etc... ..	2,187	2,259	1,462
<b>Greece—</b>			
Rough copper and alloys	81	45	3
Sheets, tubes, alloys, etc.	1,144	1,315	1,064
Sulphate.. .. .	2,501	3,355	2,974
<b>Hungary—</b>			
Ore .. .. .	698	(a)	(a)
Rough copper and scrap (including brass) ..	10,904	8,908	7,559
Bars, sheets, wire, etc... ..	427	521	531
Sulphate .. .. .	356	112	403
<b>Italy—</b>			
Cupreous pyrites ..	10,313	—	—
Other ore .. .. .	78	105	68
Ingots, scrap and alloyed	77,692	55,330	51,210
Bars, sheets, wire, etc., and alloyed .. ..	3,620	3,197	2,517
Sulphate.. .. .	15,347	8,960	12,354

(a) Information not available.

100  
130  
16

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Jugoslavia—</b>			
Crude, scrap, coin, etc...	824	460	1,745
Bars, sheets, wire, etc...	1,982	2,194	2,121
Sulphate .. ..	8,646	4,550	4,318
<b>Latvia—</b>			
Ingots, bars and scrap..	79	78	93
Sheets, tubes and wire..	95	162	368
<b>Netherlands—</b>			
Ingots, bars and tubes..	7,526	7,110	6,835
Scrap .. ..	305	556	472
Sheets, cable and wire ..	4,153	5,671	7,014
Sulphate .. ..	1,401	971	885
<b>Norway—</b>			
Rough copper and alloys	1,007	561	751
Sheets, etc. .. ..	1,865	1,497	1,311
<b>Poland—</b>			
Precipitate and scrap ..	887	452	1,533
Pigs, bars and ingots ..	8,883	9,021	5,211
Sheets, tubes and wire ..	2,196	1,359	726
Sulphate.. ..	6	5	10
<b>Portugal—</b>			
Copper and alloys ..	2,429	2,428	2,954
Sulphate.. ..	3,885	3,843	2,082
<b>Rumania—</b>			
Ore .. ..	(a)	(a)	33
Rough and scrap ..	(a)	(a)	1,294
Sheets and wire ..	(a)	(a)	431
Sulphate .. ..	(a)	(a)	2,688
<b>Russia (years ended Sept. 30)</b>			
Ingots, sheets, etc. ..	27,352	17,279	25,484
<b>Spain (total imports)—</b>			
Precipitate and scrap (b)	3,205	2,791	3,499
Ingots (b) .. ..	1,909	1,059	444
Sheets, tubes, wire, etc.(b)	1,212	1,022	1,604
Sulphate .. ..	493	495	507
<b>Sweden—</b>			
Rough copper .. ..	19,864	24,706	26,623
Sheets, rods, wire, etc.	540	440	989
Sulphate .. ..	209	192	189
<b>Switzerland—</b>			
Ore, filings and turnings	2,186	2,934	1,082
Bars, ingots, etc. (b) ..	15,754	13,779	15,054
Scrap (b) .. ..	664	1,049	665
Sheets, tubes, wire, etc. (b) .. ..	6,158	6,045	7,187

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Algeria—			
Scrap .. .. .	89	59	86
Bars, sheets, wire, etc. . .	1,288	1,943	3,889
Precipitate, etc. ..	23	3	2
Sulphate .. ..	7,503	7,258	7,332
Angola—			
Bars, sheets, wire, etc. . .	15	(a)	(a)
Belgian Congo—			
Bars, sheets and wire ..	620	298	128
Egypt—			
Bars, sheets, tubes, wire, scrap, etc., including brass .. .. .	2,702	2,241	3,121
Sulphate .. ..	44	34	37
Morocco—			
Sheets and wire (b) ..	520	1,136	1,177
Mozambique—			
Bars, sheets and wire ..	42	72	(a)
Réunion—			
Copper .. .. .	7	5	(a)
Togoland—			
Ingots, bars and wire, including alloys ..	14	—	(a)
Tunis—			
Bars, ingots, scrap, etc. (b)	46	64	140
Sheets and wire (b) ..	268	453	483
Sulphate .. ..	191	354	261
Costa Rica (total imports)—			
Bars, sheets, pipes and wire	41	147	(a)
Cuba (total imports)			
Ingots and bars. . .	100	64	(a)
Sheets, tubes and wire ..	805	803	(a)
Mexico—			
Ingots .. .. .	—	—	216
Bars, sheets, alloys, etc.	—	—	288
Sulphate. . . . .	1,018	—	812
Salvador—			
Copper .. .. .	4	3	(a)

(a) Information not available.

(b) Including alloys.

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>United States—</b>			
<i>Cu content of—</i>			
Ore .. .. .	47,407	55,633	45,231
Concentrates .. .. .	17,622	23,986	25,389
Matte, precipitate, etc.	1,179	939	2,101
Unrefined .. .. .	242,496	288,467	250,209
Refined (total imports)	37,826	59,828	38,487
Scrap (total imports)	4,747	6,071	3,348
Sulphate .. .. .	1,612	2,406	2,663
<b>Argentina—</b>			
Ingots .. .. .	715	348	836
Sheets and bronze .. .. .	1,730	1,918	1,301
Sulphate .. .. .	3,325	2,019	1,392
<b>Brazil (total imports)—</b>			
Plates, sheets, alloys, etc.	2,653	2,335	1,313
Rough, scrap, alloys, etc.	3,951	6,241	2,802
Tubes, pipes, wire and alloys .. .. .	658	677	408
Sulphate.. .. .	1,639	1,313	475
<b>Chile—</b>			
Ore .. .. .	45	27	13
Bars, sheets and wire .. .. .	392	212	184
Sulphate .. .. .	45	28	123
<b>Colombia—</b>			
Ingots, sheets, alloys, etc. .. .. .	375	339	(a)
Wire .. .. .	657	618	(a)
Sulphate .. .. .	17	12	(a)
<b>Ecuador—</b>			
Ingots, etc. .. .. .	61	27	40
<b>Peru—</b>			
Bars, sheets, etc. (c) .. .. .	99	98	(a)
Sulphate.. .. .	118	438	(a)
<b>Venezuela—</b>			
Unwrought .. .. .	99	130	(a)
Sulphate.. .. .	65	22	(a)
<b>China—</b>			
Ingots and blocks .. .. .	4,151	3,422	2,071
Bars, sheets, wire, etc...	1,952	2,634	2,376



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

Importing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Formosa—			
Sheets, plates, wire, etc.	405	484	(a)
French Indo-China—			
Sheets, wire, etc. ..	532	731	(a)
Scrap .. ..	563	493	(a)
Japan (total imports)—			
Ingots and blocks ..	14,433	4,860	1,163
Korea (total imports)—			
Ingots .. ..	130	136	67
Netherlands East Indies—			
Crude copper and alloys	274	422	(a)
Bars, sheets and alloys ..	1,031	777	(a)
Tubes, wire and alloys..	3,745	4,008	(a)
Sulphate .. ..	530	604	(a)
Philippine Islands—			
Sheets and wire.. ..	277	312	342
Siam (total imports)—			
Rough copper .. ..	100	154	226
Syria and Lebanon—			
Ore .. ..	(a)	72	15
Sheets and tubes ..	(a)	134	553
Turkey—			
Ingots, bars, sheets, wire and alloys .. ..	1,781	1,520	770
Sulphate .. ..	592	285	176

(a) Information not available.

(c) Including brass and bronze.

## DIAMONDS

### PRODUCTION OF DIAMONDS

(Metric carats)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Gold Coast (c) .. ..	698,826	660,536	861,119
Southern Rhodesia .. ..	54	232	19
South West Africa .. ..	503,142	597,189	415,047
Tanganyika Territory .. ..	24,681	24,432	13,107
Union of South Africa .. ..	4,372,857	3,661,212	3,163,591
British Guiana .. ..	135,993	125,799	110,042
India .. ..	824	1,628	1,321
Australia .. ..	28	119	667
Total ..	5,736,000	5,071,000	4,565,000
<b>FOREIGN COUNTRIES</b>			
Angola .. ..	237,511	311,903	329,824
Belgian Congo .. ..	1,647,700	1,907,765	2,518,100
Brazil (estimated)—			
Gem diamonds .. ..	65,000	50,000	45,000
Low grade and bort .. ..	100,000	75,000	70,000
Carbons .. ..	25,000	19,000	17,500
Netherlands East Indies ..	242	585	(a)
Total ..	2,080,000	2,360,000	2,980,000
<b>WORLD'S TOTAL</b>	7,810,000	7,430,000	7,550,000

(a) Information not available.

(c) Exports.

## EXPORTS OF DIAMONDS

*(Domestic Produce)*

Exporting Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE				
Gold Coast .. .. .	Carat	698,826	660,536	861,119
South West Africa (uncut) ..	do.	503,143	597,059	414,947
Tanganyika Territory ..	do.	24,598	23,290	13,337
Union of South Africa—				
Uncut .. .. .	do.	3,541,289	2,776,699	1,526,398
Cut and polished .. .. .	do.	—	35,387	49,764
British Guiana.. .. .	do.	136,490	128,115	104,756
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Precious stones, chiefly diamonds.. .. .	£	706,000	791,000	749,000
do. cut and polished .. .. .	£	12,888,000	11,036,000	6,552,000
Czechoslovakia—				
Glaziers' diamonds .. .. .	Carat	735,000	790,000	725,000
Netherlands (b)—				
Cut and uncut .. .. .	£	—	2,500	3,600
Angola—	Carat	232,256	(a)	(a)
Belgian Congo—				
Precious stones, chiefly diamonds.. .. .	Carat	1,500,278	1,895,318	2,086,768
Brazil—				
Diamonds .. .. .	£	101,098	56,105	24,606
Carbons .. .. .	£	268,548	169,708	60,221

(a) Information not available.

(b) These figures are very incomplete owing to lack of statistics of exports by post; the exports to the U.S.A., which are stated to amount to 60% of the total exports, are as follows (carats) :—

	1928.	1929.	1930.
Cut .. .. .	209,305	176,162	110,237
Crude .. .. .	57,173	124,713	65,722
Other .. .. .	24,960	9,535	4,719

## IMPORTS OF DIAMONDS

*(Less Re-exports)*

Importing Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE				
United Kingdom—	Carat	3,354,972	2,602,777	1,501,938
Union of South Africa—				
Cut and polished .. ..	Carat	629	428	735
Canada—				
Unset .. .. .	£	698,480	742,659	413,614
Dust, bort, etc. .. ..	£	468,237	557,385	295,806
British Guiana .. .. .	Carat	—	74	37
British India (b) .. ..	£	654,259	654,413	377,936
Ceylon .. .. .	Carat	3,309	2,106	900
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Precious stones, chiefly diamonds .. .. .	£	8,595,000	8,823,000	5,029,000
Czechoslovakia—				
Glaziers' diamonds ..	Carat	520,000	460,000	565,000
Netherlands—				
Uncut .. .. .	£	39,000	26,100	7,100
Cut and polished .. ..	£	300	—	11,100
Russia (years ended Sept. 30)				
Industrial diamonds ..	Carat	155,000	110,000	130,000
United States—				
Uncut (b) .. .. .	Carat	291,302	354,367	209,591
Cut and polished (b) ..	do.	440,437	416,992	295,351
Glaziers' diamonds (b) ..	do.	38,342	46,949	145,958
Dust and bort (b) .. ..	£	6,407	18,591	18,705
Chile—				
Glaziers' diamonds ..	£	266	—	—
Peru—				
Glaziers' diamonds ..	£	55	161	(a)
Netherlands East Indies (c)—				
Uncut .. .. .	Carat	20	45	(a)
Cut and polished .. ..	do.	50	10	(a)
Philippine Islands—	Carat	24,290	23,613	(a)

(a) Information not available.

(b) Total imports.

(c) In addition, the undermentioned diamonds (cut and polished) were imported by parcel post and passengers :—

1928.	1929.	1930.
£64,000	£33,000	(a)

## DIATOMACEOUS EARTH

PRODUCTION OF DIATOMACEOUS EARTH  
(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	—	58	3,150
Northern Ireland .. ..	4,244	4,207	3,604
Canada .. .. .	329	383	495
Australia .. .. .	1,360	1,107	1,240
FOREIGN COUNTRIES			
Denmark (moler) (b) ..	35,000	44,000	38,000
France .. .. .	10,000	6,800	7,300
Germany (exports) .. .	6,597	8,564(c)	6,519
Hungary (exports) .. .	3,491	3,726	2,774
Italy .. .. .	1,161	1,284	1,136
Norway (exports) .. .	83	10	82
Portugal .. .. .	30	59	12
Russia (years ended Sept.30)	12,027	(a)	(a)
Spain .. .. .	246	201	(a)
Sweden .. .. .	710	580	644
Algeria .. .. .	9,000	10,000	10,000
United States (estimated)	(a)	105,000	110,000
Chile .. .. .	—	—	180
Japan (estimated) .. .	5,000	5,000	5,000
Netherlands East Indies..	354	413	(a)

(a) Information not available.

(b) Estimated.

(c) Department of Mines, Canada, estimate production at 40,000 long tons.

EXPORTS OF DIATOMACEOUS EARTH  
(Domestic Produce)  
(Long tons)

Exporting Country	1928	1929	1930
BRITISH EMPIRE			
Canada (including other natural abrasives) ..	262	370	333
FOREIGN COUNTRIES			
Denmark .. .. .			
Moler .. .. .	23,082	31,472	24,512
Moler bricks .. .. .	5,834	5,997	6,330
France .. .. .	2,096	1,596	2,794
Germany .. .. .	6,597	8,564	6,519
Hungary .. .. .	3,491	3,726	2,774
Italy—			
Crude .. .. .	329	385	161
Calcined .. .. .	11	24	103
Norway—			
Calcined .. .. .	83	10	82
Poland .. .. .	23	8	—
Russia (years ended Sept. 30)	—	805	392
Algeria .. .. .	10,008	11,549	14,435

(a) Information not available.

## IMPORTS OF DIATOMACEOUS EARTH

*(Less Re-exports)*

(Long tons)

Importing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	7,970	10,819	8,760
Union of South Africa ..	8	49	80
Canada .. .. .	(b) 239	1,065	294
FOREIGN COUNTRIES			
Denmark—			
Moler .. .. .	434	653	718
Moler bricks .. ..	58	27	60
Estonia .. .. .	(a)	49	21
Finland .. .. .	757	708	402
France .. .. .	3,007	4,193	5,059
Germany .. .. .	326	1,129	1,619
Hungary .. .. .	483	465	579
Italy—			
Crude .. .. .	332	358	497
Calcined .. .. .	278	81	107
Jugoslavia .. .. .	682	410	372
Latvia .. .. .	193	155	320
Norway .. .. .	4	34	(c) 27
Poland .. .. .	2,390	2,923	2,302
Russia (years ended Sept. 30)	283	13	931
Cuba (total imports) ..	963	1,108	(a)
United States (including tripoli and rottenstone)	2,328	2,911	(a)
Colombia (do.) .. ..	195	275	(a)
Peru .. .. .	202	291	(a)

(a) Information not available.

(b) Nine months only, April to December.

(c) Total imports.

## FELSPAR

### PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
China stone .. ..	61,579	64,558	62,920
Union of South Africa ..	29	—	—
Canada .. ..	28,479	33,506	23,925
Australia (including china-stone) .. ..	161	78	69
FOREIGN COUNTRIES			
Czechoslovakia			
(estimated) (c)	30,000	30,000	30,000
Finland .. ..	700	(a)	(a)
France .. ..	31,500	(a)	(a)
Germany (Bavaria only) ..	6,132	7,575	5,069
Italy .. ..	4,882	6,700	5,659
Norway (exports) .. ..	23,894	26,104	19,608
Rumania (b) .. ..	2,790	2,440	1,932
Russia (years ended Sept. 30) .. ..	19,987	(a)	(a)
Sweden .. ..	39,290	38,475	32,739
United States (sales) ..	210,811	197,699	171,788
Argentina .. ..	403	420	193
Manchuria .. ..	(a)	344	(a)

(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	1928	1929	1930
BRITISH EMPIRE			
Canada .. .. .	25,090	26,693	18,913
FOREIGN COUNTRIES			
Austria .. .. .	82	147	73
Belgium-Luxemburg E. U.	264	442	1,222
Czechoslovakia .. .. .	10,343	8,984	7,981
Finland .. .. .	709	452	611
Germany .. .. .	21,650	25,346	25,359
Netherlands .. .. .	1,176	1,900	1,629
Norway—			
Crude .. .. .	17,999	19,344	14,770
Ground .. .. .	5,895	6,760	4,838
Poland .. .. .	46	—	1
Sweden .. .. .	34,294	35,756	32,459

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

Importing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom (b)—			
Exports from Sweden ..	2,607	7,738	7,516
Exports from Norway ..	4,615	4,724	(a)
Canada .. .. .	2,831	3,531	2,836
FOREIGN COUNTRIES			
Austria .. .. .	2,651	1,879	1,504
Belgium-Luxemburg E. U.	7,729	4,680	5,362
Czechoslovakia .. .. .	3,805	3,249	1,813
Denmark .. .. .	778	1,219	1,281
Estonia .. .. .	(a)	23	28
Finland .. .. .	317	268	270
Germany .. .. .	41,792	45,711	37,336
Latvia .. .. .	26	325	—
Netherlands .. .. .	5,093	3,617	3,235
Poland .. .. .	6,953	6,427	4,571
Sweden .. .. .	16	124	345
United States .. .. .	27,857	29,927	20,057

(a) Information not available.

(b) Not separately recorded in the trade returns of the United Kingdom.



## FLUORSPAR

PRODUCTION OF FLUORSPAR  
(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	46,862	41,762	29,788
South West Africa .. ..	858	296	—
Union of South Africa (shipments) .. ..	5,494	2,672	1,495
Canada .. .. .	—	15,955	71
Australia .. .. .	1,126	686	953
FOREIGN COUNTRIES			
France .. .. .	45,900	54,000	(a)
Germany—			
Bavaria .. .. .	47,785	49,995	47,304
Prussia .. .. .	36,775	37,121	29,794
Saxony .. .. .	16,163	18,199	(a)
Italy .. .. .	4,449	5,649	6,550
Russia (years ended Sept. 30)	5,463	(a)	(a)
Spain .. .. .	2,049	13,265	(a)
United States (shipments)	125,438	130,749	85,579
Korea .. .. .	935	1,447	2,261

(a) Information not available.

EXPORTS OF FLUORSPAR  
(Domestic Produce)  
(Long tons)

Exporting Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	19,196	8,839	6,600
South West Africa .. ..	115	78	—
Union of South Africa .. ..	4,110	3,911	1,909
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.	186	226	76
Germany .. .. .	48,048	50,545	44,020

almost entirely  
from the Rock  
Candy mine, B. C.  
which has not been  
operated since  
that year.

## IMPORTS OF FLUORSPAR

*(Less Re-exports)*

(Long tons)

Importing Country	1928	1929	1930
BRITISH EMPIRE			
Canada .. .. .	12,823	10,796	11,296
FOREIGN COUNTRIES			
Austria .. .. .	3,924	5,114	4,380
Belgium-Luxemburg E.U.	1,325	1,167	1,196
Denmark .. .. .	819	768	820
Germany .. .. .	939	171	133
Jugoslavia .. .. .	800	889	852
Norway .. .. .	1,312	2,311	2,852
Sweden .. .. .	1,938	2,526	(a)
United States .. .. .	42,128	48,522	57,949

(a) Information not available.

## FULLER'S EARTH

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

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. .. .	Not available for publication.		
India .. .. .	3,394	24,874	4,431
FOREIGN COUNTRIES			
United States (sales) ..	256,261	282,128	299,682

### 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	1928	1929	1930
BRITISH EMPIRE			
Union of South Africa ..	78	91	99
Canada .. .. .	(£17,791)	(£17,891)	(£14,925)
Ceylon .. .. .	128	154	82
Australia .. .. .	166	203	214
FOREIGN COUNTRIES			
Egypt .. .. .	215	259	(a)
United States—			
Crude .. .. .	316	543	365
Prepared .. .. .	6,463	6,870	6,615
Philippine Islands .. ..	1,377	2,471	1,676

(a) Information not available.

## GOLD

## PRODUCTION OF GOLD ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	119	12	—
Anglo-Egyptian Sudan (exports of bullion) ..	5,845	2,515	1,000
Bechuanaland Protectorate	2,063	1,686	2,231
Gold Coast (e) .. ..	157,815	217,806	246,075
Kenya .. .. .	707	845	1,789
Nigeria .. .. .	86	192	260
Northern Rhodesia ..	602	699	7,510
Southern Rhodesia ..	576,112	560,813	547,630
Sierra Leone (crude) ..	—	—	895
South West Africa ..	541	435	222
Swaziland .. .. .	347	90	—
Tanganyika Territory ..	12,813	9,071	11,072
Union of South Africa ..	10,354,264	10,412,326	10,716,351
Canada .. .. .	1,890,592	1,928,308	2,102,068
British Guiana .. .. .	5,325	6,200	5,893
Federated Malay States (c)	18,693	26,782	29,597
India .. .. .	376,000	363,800	329,200
Australia .. .. .	457,683	427,074	467,001
New Guinea (years ended June 30) .. .. .	60,000	44,000	30,000
New Zealand (d) .. ..	114,481	112,542	129,070
Papua .. .. .	1,647	2,228	3,837
Total ..	14,000,000	14,100,000	14,600,000
FOREIGN COUNTRIES			
Czechoslovakia .. ..	8,381	9,354	9,418
France .. .. .	54,076	54,366	(a)
Germany .. .. .	5,432	5,823	6,067
Italy .. .. .	2,299	3,409	2,942
Jugoslavia .. .. .	14,100	18,500	(a)
Rumania .. .. .	58,159	71,148	85,905

PRODUCTION OF GOLD ORE (*Cont.*)

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Russia ( <i>h</i> ) .. .. .	( <i>a</i> )	835,918	868,068
Sweden .. .. .	28,935	35,011	( <i>a</i> )
Abyssinia .. .. .	9,131	—	( <i>a</i> )
Belgian Congo .. .. .	138,631	172,832	210,245
Egypt .. .. .	—	—	542
French West Africa .. .. .	3,279	4,147	( <i>a</i> )
Madagascar .. .. .	6,269	6,018	5,980
Mozambique .. .. .	4,239	449	176
Mexico .. .. .	( <i>b</i> ) 699,102	651,873	668,977
United States .. .. .	2,148,064	2,056,629	2,100,395
Costa Rica ( <i>g</i> ) .. .. .	13,061	4,419	( <i>a</i> )
Guatemala ( <i>g</i> ) .. .. .	10,172	9,563	( <i>a</i> )
Honduras .. .. .	8,511	10,246	( <i>a</i> )
Nicaragua ( <i>g</i> ) .. .. .	14,787	15,441	( <i>a</i> )
Panama ( <i>g</i> ) .. .. .	1,089	2,714	( <i>a</i> )
Salvador ( <i>g</i> ) .. .. .	10	—	( <i>a</i> )
Argentina (estimated) ( <i>f</i> )	1,000	1,000	1,000
Bolivia .. .. .	506	665	( <i>a</i> )
Brazil (estimated) ( <i>f</i> ) .. .. .	100,000	100,000	100,000
Chile .. .. .	30,802	25,921	( <i>a</i> )
Colombia .. .. .	66,883	76,657	( <i>a</i> )
Dutch Guiana (crude gold)	5,483	3,560	( <i>a</i> )
Ecuador .. .. .	74,600	70,000	( <i>a</i> )
French Guiana .. .. .	45,460	49,000	( <i>a</i> )
Peru .. .. .	62,177	122,138	71,084
Venezuela .. .. .	46,107	46,477	58,729
China (estimated) ( <i>f</i> ) .. .. .	100,000	100,000	100,000
Formosa .. .. .	9,012	14,861	( <i>a</i> )
French Indo-China .. .. .	257	514	370
Japan .. .. .	334,053	335,078	387,983
Korea (estimated) .. .. .	180,000	160,000	180,000
Netherlands East Indies .. .. .	110,255	109,667	185,208
Philippine Islands .. .. .	92,109	151,757	185,208
<b>Total .. .. .</b>	<b>5,300,000</b>	<b>5,300,000</b>	<b>5,600,000</b>
<b>WORLD'S TOTAL</b>	<b>19,300,000</b>	<b>19,400,000</b>	<b>20,200,000</b>

(*a*) Information not available.

(*b*) Amount recovered ; the quantity of gold in the ore mined was 760,026 fine ounces.

(*c*) Quantity placed on the market.

(*d*) Gold content of exports, excluding jewellers' sweepings.

(*e*) Years ended March 31 following that stated.

(*f*) United States Mint report.

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

(*h*) Figures of Non Ferrous Metals Trust according to "Engineering and Mining World." This journal has also published recently the following estimates by V. M. Karmashov :—1928, 740,000 ounces ; 1929, 800,000 ounces ; 1930, 930,000 ounces. It is stated that these figures do not include the gold produced in copper and lead smelters (about 160,000 ounces each year).

## EXPORTS OF GOLD

*(In terms of metal)*

(Troy ounces)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Bullion, refined .. .. .	13,232,000	18,002,000	18,960,000
Coin .. .. .	954,000	243,000	265,000
Anglo-Egyptian Sudan—			
Bullion .. .. .	6,000	2,500	1,100
Coin (re-exports) .. .. .	7,000	17,000	3,500
Gold Coast—			
Bullion .. .. .	161,000	205,000	250,000
Kenya and Uganda—			
Bullion .. .. .	1,900	900	1,800
Northern Rhodesia—			
Bullion .. .. .	430	800	6,000
Southern Rhodesia—			
Concentrates .. .. .	350	430	190
Bullion .. .. .	557,500	546,000	508,000
Antimony ore (gold content) .. .. .	13,000	17,000	16,000
South West Africa—			
Bullion .. .. .	280	280	300
Tanganyika Territory—			
Bullion .. .. .	13,400	9,200	11,000
Union of South Africa—			
Concentrates, etc. .. .. .	650	160	1,600
Bullion .. .. .	5,760,000	8,130,000	8,449,000
Lead bars (gold content)	—	1,400	800
Coin .. .. .	3,968,000	2,263,000	2,249,000
Canada—			
Bullion .. .. .	2,870,000	2,226,000	1,078,000
Coin .. .. .	2,441,000	1,267,000	783,000
British Guiana—			
Bullion .. .. .	3,700	4,900	4,400

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>			
British Borneo—			
Bullion .. .. .	—	1,000	4,000
British India—			
Bullion .. .. .	7	70	8,000
Coin .. .. .	4,800	2,100	200
British Malaya—			
Bullion .. .. .	117,000	93,000	298,000
Coin .. .. .	50,000	44,000	39,000
Australia (years ended June 30)—			
Ores, etc. .. .. .	400	860	1,100
Bullion .. .. .	144,000	16,000	400
Coin .. .. .	474,000	629,000	5,799,000
New Zealand—			
Concentrates, sweepings, etc. .. .. .	1,000	450	1,400
Bullion .. .. .	114,000	113,000	128,000
Coin (re-exports) ..	132,000	131,000	—
New Guinea (years ended June 30)—			
Bullion .. .. .	60,000	42,000	23,000
Papua (years ended June 30)—			
Bullion .. .. .	1,700	1,600	5,000
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. .. .	46,000	51,000	61,000
Coin .. .. .	12,000	12,000	10,000
Drawn and rolled ..	22,000	25,000	3,000

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Belgium-Luxemburg E.U. Bullion, etc. .. ..	10,000	10,000	17,000
Czechoslovakia—			
Bullion .. .. .	5,000	7,000	5,000
Coin .. .. .	200	300	100
France—			
Bullion and scrap . .	49,000	135,000	1,029,000
Coin .. .. .	22,000	24,000	69,000
Drawn or rolled gold ..	48,000	31,000	27,000
Germany—			
Bullion .. .. .	173,000	10,950,000	6,047,000
Coin .. .. .	3,300	4,400	3,800
Hungary—			
Bullion .. .. .	—	400	—
Italy—			
Bullion, etc. .. ..	18,000	25,000	23,000
Coin .. .. .	200	100	—
Netherlands—			
Bullion, etc. .. ..	5,000	5,000	522,000
Coin .. .. .	81,000	817,000	508,000
Poland—			
Bullion .. .. .	40	570	340
Coin .. .. .	—	30	218,000
Spain—			
Coin .. .. .	482,000	—	849,000
Sweden—			
Bullion .. .. .	3,000	3,000	1,000
Coin .. .. .	41,000	35,000	13,000



EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Switzerland—			
Bullion .. .. .	175,000	245,000	191,000
Coin .. .. .	11,000	10,000	18,000
Belgian Congo—			
Bullion .. .. .	108,000	116,000	143,000
Egypt—			
Bullion .. .. .	255,000	223,000	196,000
Coin .. .. .	3,000	60,000	—
French West Africa—			
Bullion .. .. .	1,000	2,000	6,000
Madagascar—			
Bullion .. .. .	900	800	2,600
Costa Rica—			
Bullion .. .. .	11,000	1,000	(a)
Mexico—			
Bullion .. .. .	256,000	279,000	245,000
Nicaragua—			
Bullion, etc. .. ..	16,000	13,000	(a)
Concentrates .. ..	2,000	7,000	(a)
United States—			
Ore and base bullion ..	13,000	3,000	2,000
Refined bullion ..	19,910,000	5,290,000	3,650,000
United States coin ..	6,920,000	350,000	1,900,000
Argentina—			
Bullion .. .. .	558,000	8,142,000	1,175,000

(a) Information not available.

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Bolivia			
Bullion .. .. .	500	1,700	(a)
Coin .. \ .. .	—	212,000	(a)
Chile—			
Ore, excluding mixed ores .. .. .	1,300	300	10
Bullion .. .. .	—	—	8,000
Colombia—			
Bullion .. .. .	68,000	226,000	426,000
Coin .. .. .	—	54,000	(a)
Dutch Guiana—			
Bullion .. .. .	5,000	4,000	5,000
French Guiana—			
Bullion .. .. .	45,000	49,000	(a)
Peru—			
Ores, concentrates, etc.	21,000	45,000	(a)
Bullion, etc. .. ..	45,000	66,000	(a)
Scrap .. .. .	100	100	(a)
Coin .. .. .	3	—	(a)
Venezuela—			
Alluvial .. .. .	30,000	10,000	(a)
Bullion .. .. .	20,000	32,000	(a)
China—			
Bullion .. .. .	2,000	91,000	415,000
Coin .. .. .	7,000	1,000	13,000
French Indo-China—			
Bullion .. .. .	100	100	(a)
Japan—			
Bullion .. .. .	—	—	5,000
Coin .. .. .	—	—	7,400,000

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Korea—			
Ore .. .. .	42,000	43,000	26,000
Bullion .. .. .	(a)	130,500	(a)
Netherlands East Indies—			
Bullion and scrap ..	90,000	87,000	(a)
Coin .. .. .	30,000	9,000	(a)
Philippine Islands—			
Ore .. .. .	40	900	200
Bullion .. .. .	89,000	157,000	178,000
Coin .. .. .	—	9,000	—
Syria and Lebanon—			
Coin .. .. .	(a)	10,000	71,000

(a) Information not available.

## IMPORTS OF GOLD

*(In terms of metal)*

(Troy ounces)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore, etc... .. .	59,300	42,700	53,400
Bullion—			
Unrefined .. ..	702,400	539,000	589,000
Refined .. .. .	7,710,000	8,735,000	10,920,000
Coin .. .. .	2,612,000	5,012,000	8,147,000
Anglo-Egyptian Sudan—			
Bullion .. .. .	100	200	50
Coin .. .. .	4,000	16,000	5,000
Gold Coast—			
Bullion .. .. .	3,400	600	900
Kenya and Uganda—			
Ore .. .. .	—	5	—
Bullion .. .. .	14,000	13,000	11,000
Coin .. .. .	4,600	370	60
Mauritius—			
Coin .. .. .	1,600	160	—
Nigeria—			
Bullion .. .. .	780	530	500
Southern Rhodesia—			
Coin .. .. .	10,800	18,700	(a)
Tanganyika Territory—			
Bullion .. .. .	540	280	—
Coin .. .. .	330	—	—
Union of South Africa—			
Bullion .. .. .	4,500	200	100
Coin .. .. .	4,000	300	2,000

## IMPORTS OF GOLD (Cont.)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>			
Canada—			
Bullion, etc. .. ..	44,700	42,800	33,500
Coin .. .. .	1,203,000	123,700	1,668,000
British Guiana—			
Bullion .. .. .	180	20	20
Coin .. .. .	—	40	—
British West Indies—			
Trinidad and Tobago—			
Coin .. .. .	4,000	600	50
British India—			
Bullion .. .. .	2,160,000	1,505,000	1,253,000
Coin .. .. .	1,590,000	1,674,000	1,538,000
British Malaya—			
Bullion .. .. .	183,000	212,000	101,000
Coin .. .. .	220,000	221,000	102,000
Ceylon—			
Coin .. .. .	180,000	468,000	205,000
Australia (years ended June 30)—			
Ore, matte, etc. .. ..	8,100	380	20
Bullion, etc. .. ..	101,000	76,000	95,000
Coin .. .. .	116,000	100	300
Fiji—			
Coin .. .. .	5,700	3,000	—
New Zealand—			
Bullion, etc. .. ..	780	1,300	400
Coin .. .. .	1,700	—	54,000
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. .. .	343,000	244,000	196,000
Coin .. .. .	5,000	8,000	3,000
Drawn and rolled ..	2,900	2,600	2,000
Belgium-Luxemburg E.U.—			
Bullion, etc. .. ..	160,000	123,000	160,000

(a) Information not available.

IMPORTS OF GOLD (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Bullion .. .. .	22,000	25,000	43,000
Coin .. .. .	300	1,700	1,900
Denmark—			
Bullion .. .. .	4,000	3,000	—
Finland—			
Bullion .. .. .	140	120	25,600
Sheet and wire.. ..	250	230	200
France—			
Bullion and scrap ..	12,376,000	15,382,000	22,562,000
Coin .. .. .	13,000	1,106,000	836,000
Drawn or rolled ..	7,000	5,000	7,000
Germany—			
Ore .. .. .	600	2,400	200
Scrap .. .. .	98,000	77,000	95,000
Bullion .. .. .	10,410,000	4,893,000	4,932,000
Coin .. .. .	193,000	874,000	320,000
Hungary—			
Bullion .. .. .	36,000	23,000	17,000
Coin .. .. .	5,000	44,000	51,000
Italy—			
Bullion, etc. .. ..	160,000	154,000	148,000
Coin .. .. .	10,000	461,000	125,000
Jugoslavia—			
Bullion .. .. .	100	200	900
Coin .. .. .	2,700	2,900	2,200
Latvia—			
Bullion .. .. .	1,000	500	1,100
Coin .. .. .	5,000	1,000	600
Lithuania—			
Bullion .. .. .	1,200	100	100

## IMPORTS OF GOLD (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Bullion .. .. .	280,000	248,000	621,000
Coin .. .. .	467,000	64,000	35,000
Norway—			
Bullion .. .. .	1,000	1,000	500
Sheets and rolled .. .. .	3,000	5,000	6,000
Coin .. .. .	70	—	10
Poland—			
Bullion .. .. .	1,645,000	48,000	35,000
Coin .. .. .	6,900	2,300	3,700
Spain—			
Bullion .. .. .	600	400	10
Coin .. .. .	200	—	200
Sweden—			
Bullion .. .. .	175,000	186,000	7,000
Coin .. .. .	10	300	10
Switzerland—			
Bullion .. .. .	795,000	982,000	1,269,000
Coin .. .. .	71,000	38,000	19,000
Egypt—			
Bullion .. .. .	231,000	200,000	51,000
Coin .. .. .	44,000	19,000	33,000
Salvador—			
Coin .. .. .	14,000	35,000	(a)
Cuba—			
Bullion .. .. .	(a)	2,400	(a)
United States—			
Ore and base bullion .. .. .	701,000	846,000	850,000
Refined bullion .. .. .	4,950,000	7,660,000	2,730,000
Coin .. .. .	2,500,000	5,060,000	15,600,000

(a) Information not available.

## IMPORTS OF GOLD (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Argentina—			
Gold, chiefly coin ..	4,600,000	900	2,700
Brazil—			
Bullion .. .. .	145,000	20	200
Coin .. .. .	1,935,000	80,000	—
Colombia—			
Coin .. .. .	56,000	—	(a)
Venezuela—			
Coin .. .. .	274,000	92,000	(a)
China—			
Bullion .. .. .	108,000	15,000	38,000
Coin .. .. .	100,000	15,000	19,000
French Indo-China—			
Bullion .. .. .	132,000	55,000	(a)
Japan—			
Bullion .. .. .	9,200	10,300	216,200
Coin .. .. .	—	—	170
Netherlands East Indies—			
Bullion and scrap ..	45,000	57,000	(a)
Coin .. .. .	294,000	226,000	(a)
Persia (c)—			
Coin .. .. .	1,000	200	130
Philippine Islands—			
Bullion .. .. .	500	800	900
Coin .. .. .	20,000	20,000	40
Siam—			
Bullion .. .. .	72,000	51,000	4,000
Coin .. .. .	400	400	—

(a) Information not available.

(c) Years ended March 21.



## GRAPHITE

### PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Tanganyika Territory ..	6	—	—
Union of South Africa ..	50	52	206
Canada (sales) .. ..	979	1,304	1,370
Ceylon (exports) .. ..	14,347	12,739	8,724
India .. .. .	—	39	—
Australia .. .. .	—	50	—
Total ..	15,400	14,200	10,300
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	23,843	24,897	17,340
Czechoslovakia .. ..	31,821	23,277	14,330
France .. .. .	797	(a)	(a)
Germany .. .. .	17,188	21,012	24,602
Italy .. .. .	6,919	7,352	5,758
Russia (years ended Sept.30.)	2,187	4,500	(a)
Madagascar .. ..	16,545	(b) 15,795	(b) 9,076
Morocco (French zone) ..	—	44	(a)
Mexico .. .. .	5,174	5,630	5,760
United States (sales) ..	5,010	5,766	(a)
Brazil .. .. .	—	15	(a)
Japan .. .. .	435	303	226
Korea .. .. .	21,773	24,359	19,672
Total ..	132,000	134,000	108,000
<b>WORLD'S TOTAL</b>	147,000	148,000	118,000

(a) Information not available.

(b) Exports.

## EXPORTS OF GRAPHITE

*(Domestic Produce)*

(Long tons)

Exporting Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Crucibles .. ..	3,931	3,767	3,306
Canada .. ..	940	1,413	2,159
Ceylon .. ..	14,347	12,739	8,724
Australia (including foundry-black) (b) .. ..	17	42	40
FOREIGN COUNTRIES			
Austria .. ..	18,844	19,321	14,138
Belgium-Luxemburg E.U.—			
Crude and ground ..	98	90	133
Crucibles, etc. .. ..	24	57	111
Czechoslovakia .. ..	11,861	9,733	7,099
Denmark .. ..	61	81	158
France .. ..	4,209	4,829	3,093
Germany .. ..	4,299	5,345	5,248
Hungary .. ..	18	1	12
Italy .. ..	4,306	3,764	3,397
Jugoslavia .. ..	29	6	9
Poland .. ..	44	41	27
Russia (years ended Sept. 30)	4	32	10
Sweden .. ..	4	3	5
Madagascar .. ..	13,680	15,795	9,076
Morocco (French zone) ..	—	103	139
Mexico .. ..	4,894	5,630	5,760
United States (including manufactures) .. ..	1,967	1,441	1,390
Brazil .. ..	9	15	9
French Indo-China .. ..	98	—	(a)
Japan .. ..	6,107	5,352	3,883
Korea .. ..	22,730	24,256	20,631

(a) Information not available.

(b) Including re-exports.

## IMPORTS OF GRAPHITE

*(Less Re-exports)*

(Long tons)

Importing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Natural .. .. .	15,215	14,041	13,394
Artificial .. .. .	254	238	352
Crucibles .. .. .	152	192	99
Southern Rhodesia .. .. .	10	7	—
Union of South Africa .. .. .	227	135	131
Canada—			
Unground .. .. .	(£826)	(£1,338)	(£417)
Ground, including manu- factures .. .. .	(£14,063)	(£16,839)	(£12,675)
Crucibles .. .. .	(£11,389)	(£13,659)	(£10,769)
Newfoundland (years ended June 30) .. .. .	(£30)	(£26)	(£17)
British India (total im- ports)—			
Graphite .. .. .	586	511	495
Crucibles .. .. .	177	180	153
Australia (including foun- dry-black) .. .. .	635	511	647
New Zealand—			
Graphite .. .. .	(£1,793)	(£1,569)	(£1,657)
FOREIGN COUNTRIES			
Austria .. .. .	496	489	356
Belgium-Luxemburg E.U.—			
Crude and ground .. .. .	1,956	1,645	1,490
Crucibles, etc. .. .. .	674	736	512
Bulgaria .. .. .	72	96	(a)
Czechoslovakia .. .. .	4,276	5,729	3,647
Denmark .. .. .	883	793	883
Finland .. .. .	89	79	48
France .. .. .	10,745	8,239	6,647
Germany .. .. .	26,503	20,735	14,540
Hungary .. .. .	1,160	1,479	820
Italy .. .. .	859	2,417	1,692
Jugoslavia .. .. .	1,069	835	1,333
Latvia .. .. .	44	32	45

## IMPORTS OF GRAPHITE (Cont.)

Importing Country	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Norway—			
Crucibles, etc. .. ..	34	51	45
Poland .. .. .	372	267	149
Portugal .. .. .	13	10	15
Rumania .. .. .	(a)	(a)	626
Russia (years ended Sept. 30)	547	669	855
Sweden .. .. .	472	599	576
Algeria .. .. .	50	76	7
Egypt .. .. .	58	81	95
Tunis—			
Graphite .. .. .	6	5	7
Crucibles .. .. .	7	15	11
Mexico .. .. .	57	70	65
United States .. .. .	15,931	21,394	14,934
Argentina .. .. .	443	281	363
Chile .. .. .	90	96	91
Colombia .. .. .	8	4	(a)
Peru .. .. .	15	18	(a)
Japan (total imports) ..	973	1,233	1,426
Netherlands East Indies ..	154	180	(a)

(a) Information not available.

## GYPSUM

### PRODUCTION OF GYPSUM (Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	634,645	967,491	838,208
Union of South Africa .. ..	14,637	16,973	16,828
Canada .. ..	1,171,109	1,081,865	982,186
Cyprus (exports) .. ..	11,426	12,556	10,287
Palestine .. ..	1,320	1,475	1,635
India .. ..	59,050	52,726	56,316
Australia .. ..	118,867	124,515	60,000
<b>Total ..</b>	<b>2,010,000</b>	<b>2,260,000</b>	<b>1,970,000</b>
<b>FOREIGN COUNTRIES</b>			
Austria (d) .. ..	44,000	42,000	(a)
Estonia .. ..	7,856	9,835	1,932
France .. ..	2,167,900	(a)	(a)
Germany—			
Bavaria .. ..	53,622	59,241	41,114
Prussia (alabaster) .. ..	445	396	287
Italy (including alabaster)	640,587	658,678	674,703
Jugoslavia (Serbia only) ..	1,152	1,585	1,440
Latvia (exports) .. ..	27,577	26,629	36,077
Luxemburg .. ..	2,466	7,092	10,451
Rumania (b) .. ..	47,030	75,414	50,442
Russia (years ended Sept. 30) .. ..	404,868	(a)	(a)
Spain (b) .. ..	1,037,368	960,250	(a)
Sweden .. ..	114	120	(a)
Algeria (including alabaster)	79,200	101,394	164,100
Egypt (estimated) ..	130,000	130,000	130,000
Tunis .. ..	16,000	19,231	(a)
United States .. ..	4,555,580	4,478,689	3,099,458
Cuba .. ..	23,572	25,000	(a)
Argentina .. ..	40,949	36,051	48,677
Chile .. ..	8,969	15,190	(a)
Peru .. ..	15,388	19,830	(a)
China .. ..	48,000	(c) 50,000	(c) 50,000
Japan .. ..	67,433	(a)	(a)
New Caledonia .. ..	15,000	(a)	(a)
<b>Total ..</b>	<b>9,400,000</b>	<b>(a)</b>	<b>(a)</b>
<b>WORLD'S TOTAL</b>	<b>11,400,000</b>	<b>(a)</b>	<b>(a)</b>

(a) Information not available.

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

(c) Estimated.

(d) Estimated by Bundesministerium für Handel und Verkehr.

## EXPORTS OF GYPSUM

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Calcined .. .. .	7,043	6,958	6,269
Union of South Africa—			
Crude and calcined ..	219	1,411	1,253
Canada—			
Crude .. .. .	736,193	797,719	642,304
Calcined .. .. .	7,350	7,087	6,501
Cyprus—			
Crude .. .. .	378	337	949
Calcined .. .. .	11,048	12,219	9,338
Australia (including re-exports)			
Crude .. .. .	5,230	6,910	3,563
Calcined .. .. .	746	864	949
FOREIGN COUNTRIES			
Austria—			
Crude and ground .. ..	17,942	17,065	21,046
Calcined .. .. .	12,023	19,813	12,234
Belgium-Luxemburg E.U.—			
Crude .. .. .	1,027	2,981	1,979
Ground and calcined ..	12,045	11,222	7,379
Alabaster, crude .. ..	1	15	116
Czechoslovakia—			
Crude, ground and calcined	95	22	144
Denmark—			
Crude, ground and calcined	4	4	4
Estonia .. .. .	3,854	4,055	1,028
France .. .. .	331,836	354,115	351,852
Germany—			
Gypsum and phosphatic gypsum .. .. .	142,022	148,607	139,636
Hungary—			
Calcined .. .. .	24	3	16
Italy—			
Crude .. .. .	8,128	22,160	2,222
Calcined .. .. .	930	1,011	947
Alabaster, crude ..	3,522	2,086	1,279

EXPORTS OF GYPSUM (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Jugoslavia—			
Crude and ground .. ..	294	412	2,033
Latvia—			
Crude .. .. .	24,256	26,422	34,715
Ground and calcined ..	3,321	207	1,362
Netherlands .. .. .	268	136	70
Poland—			
Crude .. .. .	3,297	2,764	3,052
Ground and calcined ..	1,519	1,510	922
Portugal—			
Crude .. .. .	45	36	29
Rumania .. .. .	23,950	(a)	(a)
Switzerland—			
Crude, including limestone	1,212	1,664	1,734
Ground and calcined ..	32	83	179
Algeria .. .. .	28,233	34,820	27,978
Egypt .. .. .	74	33	98
Tunis (including re-exports)—			
Calcined .. .. .	134	103	10
Mexico .. .. .	92,586	(a)	(a)
United States—			
Crude and ground .. ..	2,112	3,777	3,217
Calcined and manufactures	14,663	21,945	17,864
Argentina .. .. .	995	559	296
China .. .. .	3,214	3,098	2,129

(a) Information not available.

## IMPORTS OF GYPSUM

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Crude, including alabaster ..	58,614	76,991	87,966
Calcined .. .. .	4,888	7,698	13,780
Irish Free State—			
Calcined .. .. .	5,402	6,683	7,286
Southern Rhodesia—			
Crude and calcined ..	1,152	682	(a)
South West Africa .. ..	9	21	4
Union of South Africa—			
Crude and calcined.. ..	774	1,043	1,477
Canada—			
Crude .. .. .	979	1,111	802
Ground .. .. .	229	147	196
Calcined .. .. .	9,432	14,604	14,829
Newfoundland (years ended June 30)—			
Crude and calcined.. ..	(£261)	(£588)	(£527)
Palestine (total imports)—			
Crude and calcined.. ..	560	467	810
Australia—			
Crude and calcined.. ..	3,974	3,489	1,349
New Zealand—			
Crude .. .. .	5,278	6,561	4,550
Calcined .. .. .	10,022	12,660	11,662
FOREIGN COUNTRIES			
Austria—			
Crude and ground .. ..	992	994	815
Calcined .. .. .	873	938	949
Belgium-Luxemburg E.U.—			
Crude .. .. .	160,227	159,037	174,347
Ground and calcined ..	46,811	49,790	44,970
Alabaster, crude .. ..	39	48	49
Bulgaria .. .. .	2,304	4,467	(a)
Czechoslovakia—			
Crude and ground .. ..	21,472	20,121	14,319
Calcined .. .. .	54,255	54,007	49,401
Denmark—			
Crude .. .. .	20,984	20,508	25,114
Ground and calcined ..	4,370	5,229	4,540
Estonia.. .. .	37	47	331



## IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Finland—			
Crude .. .. .	14,882	11,974	8,205
Calcined .. .. .	23,264	12,539	7,391
France—			
Alabaster .. .. .	157	281	112
Calcined .. .. .	8,971	7,940	9,457
Germany—			
Gypsum and phosphatic gypsum .. .. .	15,411	12,269	11,037
Greece .. .. .	118	152	240
Hungary—			
Ground .. .. .	128	215	262
Calcined .. .. .	25,208	22,808	14,354
Italy—			
Crude .. .. .	897	814	1,265
Calcined .. .. .	977	1,106	1,046
Alabaster, crude .. .. .	1	6	2
Jugoslavia—			
Crude .. .. .	16	204	166
Ground and calcined .. .. .	1,583	1,270	1,089
Latvia—			
Crude and ground .. .. .	115	126	95
Lithuania—			
Ground and calcined .. .. .	411	313	413
Netherlands .. .. .	25,753	28,443	27,164
Norway—			
Crude .. .. .	7,900	9,085	8,534
Calcined .. .. .	1,870	2,130	2,493
Poland—			
Crude .. .. .	25	45	31
Ground and calcined .. .. .	3,730	3,459	3,496
Portugal—			
Crude .. .. .	3,155	5,791	6,601
Calcined .. .. .	766	932	921
Sweden—			
Crude .. .. .	11,416	12,217	17,452
Ground and calcined .. .. .	5,587	6,693	6,327
Switzerland—			
Crude, including limestone .. .. .	2,781	2,917	4,186
Ground and calcined .. .. .	3,726	5,749	3,969

(a) Information not available.

IMPORTS OF GYPSUM (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Algeria .. .. .	1,518	6,156	6,713
Angola .. .. .	32	(a)	(a)
Egypt .. .. .	11,549	11,449	8,873
Morocco .. .. .	7,687	10,626	11,488
Mozambique—			
Crude and calcined.. ..	407	1,383	(a)
Tunis—			
Alabaster .. .. .	1	3	7
Calcined .. .. .	836	1,052	1,140
Costa Rica (total imports) ..	17	14	(a)
Cuba (total imports) .. ..	4,216	3,858	(a)
United States—			
Crude .. .. .	918,586	925,344	801,377
Ground .. .. .	2,265	2,879	(a)
Calcined .. .. .	3,902	1,567	2,023
Argentina .. .. .	2,273	1,858	1,732
Chile .. .. .	48	26	85
Colombia—			
Ground .. .. .	267	709	(a)
Ecuador .. .. .	(a)	35	22
Peru—			
Crude .. .. .	159	16	(a)
Calcined .. .. .	7	12	(a)
Uruguay—			
Ground .. .. .	1,553	1,443	(a)
Venezuela—			
Crude .. .. .	383	82	(a)
Manufactured .. .. .	100	141	(a)
Formosa .. .. .	3,014	5,237	(a)
French Indo-China .. .. .	201	5,417	(a)
Japan (total imports).. ..	19,197	22,018	18,032
Netherlands East Indies ..	4,396	3,772	(a)
Philippine Islands .. .. .	1,899	1,574	3,927
Syria and Lebanon .. .. .	(a)	920	1,160

(a) Information not available.

## IRON AND STEEL.

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

Producing Country.	Ore.			Estimated Iron Content.		
	1928	1929	1930	1928	1929	1930
<b>BRITISH EMPIRE</b>						
Great Britain ..	11,262,323	13,214,943	11,627,233	3,378,697	3,964,483	3,604,442
Northern Ireland..	806	689	—	240	200	—
Northern Rhodesia	4,466	3,556	9	1,100	900	2
Southern Rhodesia	3,062	3,352	2,484	750	850	600
South West Africa	29,456	28,244	39,338	(a)	(a)	(a)
Union of South Africa	20,568	37,666	50,846	8,978	16,419	25,866
Newfoundland ..	1,485,178	1,494,452	1,177,961	772,000	777,000	612,500
India ..	2,055,992	2,428,555	1,849,625	1,320,000	1,550,000	1,180,000
Unfederated Malay States—						
Johore ..	644,635	743,209	702,801	412,566	475,654	449,793
Trengganu ..	20,049	66,309	74,984	(a)	(a)	(a)
Australia ..	675,092	852,960	936,609	446,000	563,000	618,000
New Zealand ..	12,725	8,043	(a)	7,000	4,300	(a)
<b>Total ..</b>	<b>16,200,000</b>	<b>18,900,000</b>	<b>16,500,000</b>			
<b>FOREIGN COUNTRIES</b>						
Austria ..	1,897,729	1,861,509	1,161,808	595,944	587,898	388,780
Belgium ..	161,823	153,211	(a)	73,000	69,000	(a)
Czechoslovakia ..	1,751,076	1,779,113	1,626,814	559,773	573,788	522,705
France ..	48,414,400	50,223,808	48,049,473	17,000,000	18,000,000	17,000,000
Germany (b) ..	6,372,357	6,272,546	5,648,219	2,055,824	2,047,404	(a)
Greece ..	164,269	249,031	(a)	81,304	121,339	(a)
Hungary ..	196,395	247,882	154,935	(a)	(a)	(a)
Italy (c) ..	631,947	710,606	717,849	309,619	326,077	352,916
Jugoslavia ..	432,539	443,676	424,378	238,000	244,000	233,000

\* For detailed figures see page 155.

(a) Information not available.

(b) Including manganiferous ore as follows :—

	Under 12 % Mn	12-30 % Mn
1928 ..	3,307,618 long tons.	175,537 long tons.
1929 ..	3,079,666 " "	179,096 " "
1930 ..	(a)	79,014 " "

(c) Including manganiferous ore of 30 % Mn and less as follows :—

1928 ..	15,354 long tons.
1929 ..	6,730 " "
1930 ..	11,000 " "

## PRODUCTION OF IRON ORE (Cont.).

Producing Country.	Ore.			Estimated Iron Content.		
	1928	1929	1930	1928	1929	1930
FOREIGN COUNTRIES —(Cont.).						
Luxemburg ..	6,915,853	7,451,629	6,544,354	2,118,326	2,251,137	1,967,233
Norway .. ..	652,241	734,328	760,224	428,429	481,436	498,467
Poland .. ..	725,119	649,151	469,376	203,033	181,663	131,425
Portugal .. ..	14,000	11,580	—	7,500	6,250	—
Rumania .. ..	82,544	88,592	91,056	36,000	39,000	40,000
Russia (years ended Sept. 30) ..	5,830,858	7,010,000	10,602,000	(a)	(a)	(a)
Spain .. ..	5,693,411	6,455,471	5,322,765	2,740,500	3,134,700	2,570,000
Sweden .. ..	4,595,064	11,286,437	11,058,964	2,788,000	6,842,000	(a)
Switzerland (exports)	64,664	87,048	100,316	(a)	(a)	(a)
Algeria .. ..	1,954,100	2,161,496	2,196,619	987,205	1,080,748	1,098,310
Belgian Congo ..	50,000	50,000	55,000	(a)	(a)	(a)
Morocco (Spanish)	1,077,859	1,227,357	(a)	582,000	663,000	(a)
Tunis .. ..	895,000	961,407	815,000	470,000	500,000	430,000
Cuba (shipments) ..	394,420	671,320	190,654	218,000	377,000	105,000
Mexico .. ..	79,025	(a)	(a)	49,000	(a)	(a)
United States (d) ..	63,373,070	74,215,978	59,194,054	31,400,000	37,000,000	(a)
Brazil (estimated)	30,000	30,000	30,000	20,000	20,000	20,000
Chile .. ..	1,500,694	1,783,807	1,693,349	990,458	1,177,313	(a)
China .. ..	2,003,800	(a)	(a)	(a)	(a)	(a)
Japan .. ..	155,215	175,000	(a)	98,000	(a)	(a)
Korea .. ..	496,409	543,099	524,087	280,000	303,000	293,000
Manchuria .. ..	664,953	769,000	(a)	(a)	(a)	(a)
Total (e) ..	157,000,000	180,000,000	162,000,000			
World's Total (e) ..	173,000,000	199,000,000	179,000,000			

(a) Information not available.

(d) Including shipments of manganiferous iron ore as follows:—

	5–10 per cent. Mn	10–35 per cent. Mn
1928 ..	1,085,401 long tons.	90,581 long tons.
1929 ..	1,110,067 " "	78,191 " "
1930 ..	707,973 " "	77,417 " "

(e) See notes (b), (c) and (d).

## DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES.

Producing Country	1928	1929	1930
Great Britain—			
West Coast hematite ..	1,172,428	1,391,756	1,134,088
Jurassic ironstones—			
Lower lias .. ..	2,353,938	2,842,387	2,460,713
Middle lias .. ..	3,944,196	4,475,238	3,825,712
Inferior oolite ..	3,242,056	3,880,380	3,716,669
Coal measure ironstones	369,651	417,041	350,603
Other iron ore (hematite, limonite, etc.) ..	180,054	208,141	139,448
Northern Ireland—			
Hematite and limonite ..	806	689	—
Belgium—			
Oolitic limonite and hematite .. ..	151,371	145,918	(a)
Limonite .. ..	10,452	7,293	(a)
France (b)—			
By phosphorus content—			
To 0.075 % .. ..	204,500	217,786	193,023
Over 0.075 % to 1.7 %	2,255,300	2,472,285	2,220,580
Over 1.7 % .. ..	45,954,600	47,239,813	45,273,373
Germany—			
Limonite (under 12 % Mn) .. ..	3,307,619	3,079,666	(a)
Limonite (12–30 % Mn)	175,537	179,096	(a)
Hematite .. ..	660,855	642,617	(a)
Siderite .. ..	1,933,651	2,075,758	(a)
Magnetic iron ore ..	34,437	18,421	(a)
Argillaceous and car- bonaceous ironstone ..	2,427	7,922	(a)
Flux ironstone .. ..	101,316	124,519	(a)
Bog iron ore .. ..	552	495	(a)
Other ores .. ..	155,963	144,052	(a)
By phosphorus content—			
To 0.05 % .. ..	2,098,732	2,188,606	(a)
Over 0.05 to 0.1 % ..	235,570	229,394	(a)
Over 0.1 to 0.5 % ..	1,885,514	1,699,610	(a)
Over 0.5 to 0.75 % ..	108,614	232,353	(a)
Over 0.75 to 1.0 % ..	963,466	1,049,356	(a)
Over 1.0 % .. ..	1,080,461	873,227	(a)
Greece—			
Iron ore .. ..	164,232	249,029	168,152
Manganiferous iron ore ..	36	2	—
Italy—			
Iron ore .. ..	615,609	703,876	705,000
Manganiferous iron ore ..	15,354	6,730	11,000

(a) Information not available.

(b) Sales.

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

Producing Country	1928	1929	1930
Luxemburg—			
Siliceous iron ore ..	3,833,437	4,067,984	3,760,035
Calcareous iron ore ..	2,996,749	3,151,777	2,585,137
Ferruginous limestones..	85,667	231,868	199,182
<i>By phosphorus content—</i>			
<i>From 0.5 to 0.6 % ..</i>	36,953	2,019,156	1,701,873
<i>From 0.6 to 0.7 % ..</i>	6,878,900	5,432,473	6,544,354
Poland—			
Limonite .. ..	75,250	64,798	(a)
Argillaceous iron ore ..	612,505	584,353	(a)
Portugal—			
Hematite .. ..	14,000	11,580	—
Rumania—			
Limonite, siderite and magnetite .. ..	82,544	88,592	91,056
Sweden—			
<i>By phosphorus content—</i>			
<i>Under 0.01% ..</i>	429,238	747,814	(a)
<i>From 0.01% to 0.05 %</i>	706,005	1,314,311	(a)
<i>From 0.05% to 0.1 %</i>	126,761	287,402	(a)
<i>From 0.1% to 0.6 %</i>	434,302	1,206,887	(a)
<i>From 0.6% to 1.0 %</i>	735,602	3,135,629	(a)
<i>1% and over .. ..</i>	2,163,148	4,594,394	(a)
Algeria—			
Non-phosphoric .. ..	1,925,500	2,130,713	2,170,354
Moderately phosphoric..	28,600	30,783	26,265
United States—			
Ore containing 5 % Mn—			
Hematite*	59,207,857	69,849,231	55,265,954
Magnetite* .. ..	2,170,804	2,401,104	2,421,211
Limonite .. ..	816,637	775,610	720,496
Siderite .. ..	1,790	1,775	1,003
Ore containing 5 to 10 % Mn .. ..	1,085,401	1,110,067	707,973
Ore containing 10 to 35 % Mn .. ..	90,581	78,191	77,417

\* Some hematite is included with magnetite.

(a) Information not available.

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

Exporting Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	15,366	6,586	4,304
Canada .. ..	2,335	3,446	498
Newfoundland .. ..	1,547,895	1,516,999	1,644,708
British India (c) .. ..	—	—	903
British Malaya (c) .. ..	664,704	809,753	778,074
Australia (c) .. ..	—	—	414,713
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	305,465	260,217	225,038
Belgium-Luxemburg E. U.	885,352	805,035	501,032
Czechoslovakia .. ..	242,075	346,498	250,098
France .. ..	16,785,110	16,145,603	14,746,974
Germany .. ..	176,319	114,065	74,582
Greece .. ..	68,953	131,298	201,191
Hungary (including burnt pyrites) .. ..	53,199	45,724	27,606
Italy .. ..	33,888	21,118	2,446
Jugoslavia .. ..	364,009	381,961	350,358
Netherlands .. ..	72	2,891	2,064
Norway .. ..	537,686	723,339	621,850
Poland .. ..	114,849	97,494	80,139
Portugal .. ..	13,779	9,314	—
Rumania .. ..	26,366	(a)	23,681
Russia (years ended Sept. 30) .. ..	421,658	542,673	439,918
Spain (c) .. ..	5,335,602	5,506,179	3,665,441
Sweden .. ..	5,012,512	10,726,833	9,326,928
Switzerland (b) .. ..	64,664	87,048	100,316
Algeria .. ..	1,978,793	2,107,515	1,604,466
Tunis (c) .. ..	877,625	959,026	738,392
Cuba (c) .. ..	53,149	73,963	(a)
United States .. ..	1,282,306	1,304,417	752,267
Chile .. ..	1,500,694	1,787,277	1,693,349
Peru .. ..	—	99	(a)
China .. ..	910,384	964,276	835,900
Korea .. ..	221,830	309,170	283,182
Turkey .. ..	—	3,451	—

(a) Information not available.

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

(c) Including re-exports.

## IMPORTS OF IRON ORE

*(Less Re-exports)*

(Long tons)

Importing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	4,439,866	5,689,342	4,137,899
Canada .. .. .	1,984,729	2,185,542	1,326,276
British India (b) .. ..	10	24	35
British Malaya (b).. ..	—	—	62
FOREIGN COUNTRIES			
Austria .. .. .	1,270	1,857	2,256
Belgium-Luxemburg E. U.	13,404,149	13,835,012	12,657,341
Czechoslovakia .. ..	1,222,158	1,615,235	1,451,554
Finland .. .. .	404	266	351
France .. .. .	972,895	1,123,401	995,565
Germany .. .. .	13,576,584	16,685,077	13,670,496
Hungary (including burnt pyrites) .. .. .	426,012	561,737	429,756
Italy .. .. .	60,781	208,628	232,107
Jugoslavia .. .. .	1,024	41	49
Netherlands .. .. .	503,772	453,646	525,610
Norway .. .. .	4,077	11,098	8,361
Poland .. .. .	410,453	524,870	240,945
Rumania .. .. .	(a)	(a)	20,769
Spain (b) .. .. .	5,507	953	49
Sweden .. .. .	26	—	28
Switzerland (c) .. ..	53,489	48,770	53,196
Algeria .. .. .	5,725	3,760	2,110
Tunis .. .. .	4,703	12,857	4,345
United States .. .. .	2,452,646	3,139,334	2,775,124
Chile .. .. .	19	141	60
Japan (b) .. .. .	1,591,437	1,914,070	1,942,488
Korea .. .. .	42,296	38,221	27,140
Turkey .. .. .	126	39	169

(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	1928	1929	1930
ENGLAND AND WALES			
North-East—			
Grimsby, including Im-			
mingham .. ..	122,516	277,891	286,970
Hartlepool .. ..	380	23,500	120
Middlesbrough .. ..	1,252,954	1,965,181	1,276,970
Newcastle, including			
Shields .. ..	428,795	499,511	466,206
Stockton .. ..	915	774	746
Sunderland .. ..	142,835	53,129	84,895
North-West—			
Barrow-in-Furness ..	87,363	—	120,019
Liverpool .. ..	96,047	169,399	106,781
Manchester .. ..	72,960	103,219	103,110
South-West—			
Cardiff .. ..	536,619	648,474	469,595
Newport .. ..	561,936	473,387	3,079
Port Talbot .. ..	236,474	262,981	340,450
SCOTLAND			
Ardrossan .. ..	103,262	208,149	70,872
Ayr .. ..	2,230	—	—
Glasgow .. ..	422,857	447,246	400,819
Grangemouth .. ..	212,636	247,585	224,656
Troon .. ..	5,754	—	—

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

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	6,610,100	7,589,300	6,192,400
Union of South Africa ..	8,914	16,249	29,255
Canada .. .. .	1,082,209	1,169,276	813,492
India .. .. .	1,055,117	1,348,175	1,179,851
Australia .. .. .	410,873	(a)	(a)
New Zealand .. .. .	6,362	4,393	8,075
Total ..	9,170,000	10,500,000	8,600,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	451,210	451,724	292,136
Belgium .. .. .	3,796,075	3,976,715	3,349,264
Czechoslovakia .. .. .	1,544,480	1,618,542	1,414,392
Finland .. .. .	8,336	6,504	(a)
France—			
Saar .. .. .	1,905,606	2,071,695	1,882,240
Other districts .. .. .	9,823,254	10,200,075	9,876,608
Germany .. .. .	11,617,144	13,030,356	9,541,398
Hungary .. .. .	280,953	362,140	253,164
Italy .. .. .	545,362	714,841	578,314
Jugoslavia .. .. .	28,841	32,665	34,558
Luxemburg .. .. .	2,726,312	2,860,195	2,434,666
Netherlands .. .. .	254,146	249,768	268,411
Norway .. .. .	124,599	150,972	142,549
Poland .. .. .	673,149	694,389	470,399
Rumania .. .. .	69,016	71,203	67,756
Russia (years ended Sept. 30)	3,230,143	3,954,300	5,011,000
Spain .. .. .	553,931	687,448	591,621
Sweden .. .. .	430,602	515,556	488,570
Mexico .. .. .	48,077	59,279	56,913
United States .. .. .	38,155,714	42,613,983	31,752,169
Brazil .. .. .	21,286	(a)	(a)
China .. .. .	433,843	(a)	(a)
Japan (b) .. .. .	1,516,131	1,490,906	1,630,013
Korea .. .. .	146,304	153,058	148,987
Manchuria .. .. .	280,181	289,512	(a)
Philippine Islands ..	200	200	200
Total ..	78,700,000	86,700,000	71,100,000
<b>WORLD'S TOTAL</b>	87,900,000	97,200,000	79,700,000

\* For details see page 161.

(a) Information not available.

(b) Including pig-iron produced at government and other steel works for conversion into steel.

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

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Hematite .. ..	2,138,900	2,347,900	1,841,000
Basic .. ..	2,432,200	3,196,500	2,487,600
Foundry .. ..	1,538,800	1,473,200	1,433,700
Forge .. ..	268,500	275,200	282,500
Other kinds of pig-iron	84,200	117,800	94,400
Spiegeleisen .. ..	31,500	26,300	30,500
Ferro-manganese .. ..	114,600	149,800	99,300
Ferro-silicon .. ..	1,400	2,600	2,200
Ferro-silicon-manganese	—	—	1,200
Canada—			
Basic .. ..	724,559	770,478	495,801
Foundry .. ..	233,386	221,644	189,668
Malleable .. ..	79,782	88,038	60,857
Ferro-alloys .. ..	44,482	89,116	66,494
India—			
Basic .. ..	229,955	307,584	301,625
Foundry and forge .. ..	816,613	1,032,481	873,221
Direct castings .. ..	5,316	4,478	429
Ferro-manganese .. ..	3,233	3,632	4,576
<b>FOREIGN COUNTRIES</b>			
Austria—			
Basic .. ..	430,607	434,040	280,877
Foundry .. ..	20,603	17,684	11,259
Belgium—			
Basic .. ..	3,602,934	3,776,853	(a)
Foundry, hematite .. ..	45,411	32,282	(a)
phosphoric .. ..	110,133	113,213	(a)
Ferro-alloys .. ..	37,597	13,680	(a)
Czechoslovakia—			
Basic .. ..	1,274,767	1,363,254	1,214,657
Foundry .. ..	262,312	243,850	185,960
Ferro-alloys .. ..	7,401	11,438	13,775
France—			
Saar—			
Basic .. ..	1,700,319	1,867,768	1,662,847
Foundry and castings	205,286	20,393	219,393

(a) Information not available.

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

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
<b>France (<i>Cont.</i>)—</b>			
Other districts—			
Basic .. .. .	7,657,093	7,852,933	7,555,567
Bessemer .. .. .	11,607	12,573	16,483
Foundry .. .. .	1,617,373	1,753,210	1,678,881
Forge .. .. .	310,938	341,117	387,480
Other pig-iron .. .. .	19,001	10,258	4,369
Spiegeleisen .. .. .	100,283	109,048	97,911
Ferro-manganese .. .. .	63,152	73,581	76,132
Ferro-silicon .. .. .	32,753	35,758	43,430
Other ferro-alloys .. .. .	11,054	11,627	16,355
<b>Germany—</b>			
Basic .. .. .	7,156,130	8,271,744	6,092,000
Bessemer .. .. .	14,847	29,711	—
Foundry .. .. .	2,092,927	2,187,075	1,599,000
Forge, etc. .. .. .	13,370	11,315	7,000
Manganese pig-iron (b) and ferro-alloys .. .. .	2,339,870	2,530,511	1,843,000
<b>Italy—</b>			
Coke iron .. .. .	447,902	533,041	438,235
Electric .. .. .	21,137	13,252	25,141
Other kinds .. .. .	30,428	114,272	65,555
Spiegeleisen .. .. .	3,086	15,872	13,871
Ferro-manganese .. .. .	17,253	18,859	14,647
Ferro-silicon .. .. .	9,879	12,393	15,427
Other ferro-alloys .. .. .	15,677	7,152	5,438
<b>Luxemburg—</b>			
Basic .. .. .	2,667,793	2,814,092	2,392,894
Foundry .. .. .	53,916	41,965	41,393
Forge .. .. .	4,603	4,138	379
<b>Norway—</b>			
Electric .. .. .	4,296	19,569	21,801
Ferro-alloys .. .. .	120,303	131,403	120,748
<b>Poland—</b>			
Foundry .. .. .	154,152	141,045	90,713
Basic .. .. .	—	2,418	1,037
Acid .. .. .	486,839	506,085	352,750
Castings .. .. .	1,161	5,771	418
Ferro-alloys .. .. .	30,997	37,992	25,481

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

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Russia (years ended Sept. 30)—</b>			
Foundry .. ..	670,456	} 3,954,300	4,904,000
Basic .. ..	2,477,145		
Castings.. ..	6,268		
Ferro-manganese .. ..	35,823		
Spiegeleisen .. ..	24,932		
Other pig-iron and ferro-alloys .. ..	15,519		
<b>Spain—</b>			
Pig-iron .. ..	548,178	737,108	585,469
Ferro-manganese .. ..	5,226	3,624	6,102
Ferro-silicon .. ..	527	—	50
<b>Sweden—</b>			
Open hearth, acid .. ..	124,384	162,805	150,689
basic .. ..	54,657	60,211	54,936
Bessemer, acid .. ..	30,740	27,267	20,987
basic.. ..	65,729	108,036	118,492
Foundry .. ..	71,286	71,637	65,380
Forge .. ..	35,281	41,265	32,924
Castings .. ..	7,759	10,722	9,110
Ferro-manganese .. ..	2,250	2,618	2,958
Ferro-silicon .. ..	23,484	18,346	17,325
Other ferro-alloys .. ..	15,032	12,649	15,769
<b>United States—</b>			
Basic .. ..	22,124,410	24,911,654	18,393,384
Bessemer and low phosphorus .. ..	9,013,847	9,877,240	7,314,749
Foundry.. ..	4,209,790	4,446,011	3,622,779
Forge .. ..	88,362	167,930	50,696
Malleable .. ..	1,922,970	2,312,813	1,571,512
Other pig-iron .. ..	42,269	41,567	67,787
Ferro-manganese and spiegeleisen .. ..	419,213	476,655	362,386
Ferro-silicon .. ..	303,595	341,222	337,640
Other ferro-alloys .. ..	31,258	38,891	31,236
<b>Japan—</b>			
Pig-iron .. ..	1,499,310	(a)	1,604,094
Ferro-alloys .. ..	16,821	(a)	25,919

(a) Information not available.

(b) Containing 4-8 % manganese.

**EXPORTS OF PIG-IRON AND FERRO-ALLOYS**  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Pig-iron—			
Forge or foundry ..	236,730	199,001	143,484
Acid .. .. .	158,668	246,904	126,923
Basic .. .. .	1,297	9,685	780
Spiegeleisen and ferro- manganese .. ..	56,643	88,173	45,042
Ferro-silicon .. ..	436	475	152
Other ferro-alloys .. ..	989	879	808
Canada—			
Pig-iron .. .. .	1,043	7,478	593
Ferro-silicon .. ..	14,321	27,652	14,577
Ferro-manganese, spiegel- eisen and other ferro-alloys	24,812	34,044	24,277
British India —			
Pig-iron .. .. .	428,625	548,881	502,629
Ferro-manganese .. ..	3,108	4,198	—
British Malaya (including re- exports)—			
Pig-iron .. .. .	83	47	50
Australia (including re- exports)—			
Pig-iron .. .. .	10	20	5
New Zealand—			
Pig-iron .. .. .	500	—	4
<b>FOREIGN COUNTRIES</b>			
Austria—			
Pig-iron .. .. .	61,801	42,283	31,418
Ferro-silicon .. ..	6,305	6,359	5,068
Other ferro-alloys .. ..	72	173	139
Belgium-Luxemburg E.U.—			
Pig-iron .. .. .	97,554	119,130	113,587
Czechoslovakia—			
Pig-iron .. .. .	50,613	48,741	22,241
Spiegeleisen .. ..	1,837	1,549	873
Other ferro-alloys .. ..	31	41	2,247
Finland—			
Pig-iron and ferro-alloys ..	800	4,260	7,392
France—			
Pig-iron .. .. .	624,581	552,863	517,747
Ferro-silicon, ferro-mangan- ese and other ferro-alloys	10,124	10,849	10,679
Germany—			
Pig-iron .. .. .	250,682	381,632	198,734
Ferro-manganese and other ferro-alloys .. ..	59,239	66,967	38,714

EXPORTS OF PIG-IRON AND FERRO-ALLOYS (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Italy—			
Pig-iron .. .. .	110	45	6
Ferro-manganese .. .. .	230	1,155	1,348
Ferro-silicon-manganese .. .. .	1,725	3,408	814
Ferro-silicon .. .. .	593	1,067	808
Other ferro-alloys .. .. .	474	48	31
Jugoslavia—			
Pig-iron .. .. .	36	306	35
Ferro-silicon .. .. .	3,496	3,236	1,825
Ferro-manganese .. .. .	107	103	—
Netherlands—			
Pig-iron and ferro-alloys .. .. .	212,307	176,445	206,414
Norway—			
Pig-iron .. .. .	3,088	11,635	10,708
Ferro-silicon .. .. .	29,302	40,250	27,262
Ferro-chrome .. .. .	2,757	3,809	4,076
Ferro-manganese .. .. .	76,089	67,892	47,092
Poland—			
Pig-iron .. .. .	319	187	164
Ferro-manganese .. .. .	5,316	4,410	1,319
Other ferro-alloys .. .. .	10	—	77
Rumania—			
Pig-iron .. .. .	1,780	(a)	2,470
Russia (years ended Sept. 30)—			
Pig-iron .. .. .	1,652	406	1,712
Spain (including re-exports)—			
Pig-iron .. .. .	1,500	1,478	10
Sweden—			
Pig-iron .. .. .	70,935	69,994	46,398
Ferro-chrome .. .. .	7,122	8,195	5,753
Other ferro-alloys.. .. .	24,704	23,429	14,532
Switzerland—			
Ferro-chrome and silicon .. .. .	5,709	6,375	4,513
Mexico—			
Pig-iron .. .. .	325	(a)	(a)
United States—			
Pig-iron .. .. .	84,682	46,357	13,671
Ferro-manganese and spiegel- eleisen .. .. .	9,440	1,574	6,189
Other ferro-alloys .. .. .	2,621	5,818	5,484
China—			
Pig-iron .. .. .	217,057	202,226	180,564
Korea—			
Pig-iron .. .. .	140,080	137,610	109,898

(a) Information not available.

IMPORTS OF PIG-IRON AND FERRO-ALLOYS  
(Less Re-exports)  
(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Pig-iron—			
Forge .. .. .	6,028	1,989	1,142
Foundry .. .. .	38,718	45,518	117,498
Acid .. .. .	2,599	2,628	205
Basic .. .. .	46,358	71,886	171,668
Spiegeleisen and ferro- manganese .. .. .	5,795	6,251	5,516
Other ferro-alloys .. .. .	19,584	24,662	16,085
Irish Free State—			
Pig-iron .. .. .	4,354	16,090	19,420
Anglo-Egyptian Sudan—			
Pig-iron .. .. .	93	(£1,298)	(£726)
Mauritius—			
Pig-iron .. .. .	77	61	(a)
South West Africa—			
Pig iron .. .. .	25	41	20
Union of South Africa—			
Pig-iron, including steel ingots	4,609	6,147	9,464
Ferro-silicon .. .. .	136	149	251
Ferro-manganese .. .. .	318	445	548
Other ferro-alloys .. .. .	28	34	57
Canada—			
Pig-iron .. .. .	43,307	32,548	13,643
Ferro-silicon .. .. .	262	618	205
Ferro-manganese, spiegel- eisen and other ferro-alloys	5,435	7,560	3,700
Newfoundland (years ended June 30)—			
Pig-iron .. .. .	(£1,194)	(£1,976)	(£2,634)
British India (total imports)—			
Pig-iron .. .. .	4,050	2,840	3,106
Ferro-alloys .. .. .	(a)	(a)	(b) 758
British Malaya (total imports)—			
Pig-iron .. .. .	4,748	3,790	3,977
Ceylon—			
Pig-iron .. .. .	921	918	648
Cyprus—			
Pig-iron .. .. .	54	90	71
Palestine (total imports)—			
Pig-iron .. .. .	229	220	107
Australia—			
Pig-iron .. .. .	7,271	5,247	2,276
Ferro-alloys .. .. .	532	505	49
New Zealand—			
Pig-iron .. .. .	2,668	5,484	4,320



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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES			
Austria—			
Pig-iron .. .. .	32,800	35,220	21,951
Ferro-silicon .. .. .	666	622	264
Other ferro-alloys .. .. .	5,999	5,577	4,092
Belgium-Luxemburg E.U.—			
Pig-iron .. .. .	542,213	663,144	393,381
Bulgaria—			
Pig-iron .. .. .	4,712	4,996	(a)
Czechoslovakia—			
Pig-iron .. .. .	54,988	56,270	38,360
Spiegeleisen .. .. .	441	—	—
Other ferro-alloys .. .. .	17,276	22,229	12,534
Denmark—			
Pig-iron .. .. .	45,714	52,322	50,661
Ferro-alloys .. .. .	194	498	470
Estonia—			
Pig-iron .. .. .	1,473	2,022	1,320
Ferro-alloys .. .. .	(a)	(a)	98
Finland—			
Pig-iron .. .. .	21,433	18,320	12,456
Ferro-alloys .. .. .	237	183	50
France—			
Pig-iron .. .. .	196,961	178,336	131,732
Ferro-silicon, ferro-manganese and other ferro-alloys	18,467	31,949	31,434
Germany—			
Pig-iron .. .. .	300,158	172,410	167,683
Ferro-manganese and other ferro-alloys .. .. .	30,247	32,752	23,416
Greece—			
Pig-iron .. .. .	3,742	3,452	3,258
Hungary—			
Pig-iron and ferro-alloys ..	41,012	39,739	19,492
Italy—			
Pig-iron .. .. .	136,738	174,863	154,204
Ferro-chrome .. .. .	339	322	488
Ferro-manganese .. .. .	144	393	24
Ferro-silicon-manganese ..	32	69	95
Ferro-silicon .. .. .	224	178	90
Ferro-tungsten .. .. .	33	57	47
Other ferro-alloys .. .. .	66	148	195

(a) Information not available.

(b) Nine months only, April to December, 1930.

IMPORTS OF PIG-IRON AND FERRO-ALLOYS (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Jugoslavia—			
Pig-iron .. .. .	10,020	13,210	12,813
Ferro-manganese .. .. .	1,749	2,148	1,184
Ferro-silicon .. .. .	334	56	86
Latvia—			
Pig-iron and ferro-alloys ..	5,249	5,082	5,908
Netherlands—			
Pig-iron and ferro-alloys ..	35,065	30,024	32,321
Norway—			
Pig-iron .. .. .	14,402	16,687	13,518
Ferro-silicon .. .. .	—	111	—
Ferro-tungsten and ferro- vanadium .. .. .	23	26	83
Poland—			
Pig-iron .. .. .	4,805	5,734	2,514
Ferro-manganese .. .. .	1,248	7	22
Other ferro-alloys .. .. .	1,093	1,731	787
Rumania—			
Pig-iron .. .. .	(a)	(a)	9,501
Ferro-alloys .. .. .	(a)	(a)	1,126
Russia (years ended Sept. 30)—			
Pig-iron .. .. .	526	65	35
Ferro-silicon, containing more than 25% Si .. .. .	6,858	7,938	12,635
Ferro-chrome .. .. .		607	2,187
Other ferro-alloys .. .. .		1,312	3,443
Spain (total imports)—			
Pig-iron .. .. .	15,308	8,494	4,722
Ferro-manganese .. .. .	2,760	7,014	3,906
Ferro-silicon .. .. .	1,637	2,563	2,620
Other ferro-alloys .. .. .	365	341	732
Sweden—			
Pig-iron .. .. .	77,518	88,624	87,088
Ferro-alloys .. .. .	2,617	3,353	2,742
Switzerland—			
Ferro-chrome and -silicon ..	1,482	1,700	1,657
Algeria—			
Pig-iron and spiegeleisen ..	2,470	2,446	2,328
Ferro-alloys .. .. .	11	21	(a)
Belgian Congo—			
Pig-iron and steel .. .. .	463	671	(a)
Egypt—			
Pig-iron .. .. .	3,406	2,739	3,615
Réunion—			
Pig-iron .. .. .	18	20	(a)

IMPORTS OF PIG-IRON AND FERRO-ALLOYS (*Cont.*)

Importing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Tunis—			
Pig-iron .. .. .	69	169	108
Mexico—			
Pig-iron and scrap .. .. .	437	229	194
Ferro-manganese, contain- ing more than 25% Mn	249	1,348	972
United States—			
Pig-iron .. .. .	140,694	147,662	137,031
Spiegeleisen .. .. .	5,260	13,828	13,406
Argentina—			
Pig-iron .. .. .	25,445	26,521	27,299
Brazil (total imports)—			
Pig-iron .. .. .	2,554	4,352	1,853
Colombia—			
Pig-iron .. .. .	1,358	623	(a)
Peru—			
Pig-iron .. .. .	764	1,447	(a)
China—			
Pig-iron and kentledge ..	22,298	19,492	19,854
Formosa—			
Pig-iron .. .. .	498	455	(a)
French Indo-China—			
Pig-iron .. .. .	1,865	2,592	(a)
Japan (total imports)—			
Pig-iron .. .. .	560,225	643,725	399,420
Ferro-manganese .. .. .	2,088	2,429	2,097
Other ferro-alloys .. .. .	1,542	729	609
Korea—			
Pig-iron .. .. .	8,197	8,164	6,164
Philippine Islands—			
Pig-iron .. .. .	2,161	2,225	1,299
Syria and Lebanon—			
Pig iron .. .. .	(a)	620	916

(a) Information not available.

## PRODUCTION OF STEEL INGOTS AND CASTINGS\*

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	8,519,700	9,636,200	7,325,700
Union of South Africa (b)	31,836	38,269	38,956
Canada .. .. .	1,234,719	1,378,024	1,011,743
India .. .. .	409,710	575,310	618,922
Australia .. .. .	410,031	(a)	(a)
Total ..	10,600,000	12,000,000	9,400,000
FOREIGN COUNTRIES			
Austria .. .. .	636,861	621,952	461,000
Belgium .. .. .	3,872,331	4,044,596	3,336,056
Czechoslovakia .. ..	1,941,917	2,158,759	1,788,509
France—			
Saar .. .. .	2,040,309	2,174,022	1,904,237
Other districts .. ..	9,329,776	9,545,765	9,297,366
Germany .. .. .	14,092,157	15,769,785	11,356,346
Hungary .. .. .	478,584	505,362	363,584
Italy .. .. .	1,928,585	2,088,677	1,715,817
Luxemburg .. .. .	2,526,664	2,659,579	2,234,060
Norway .. .. .	2,823	3,800	3,122
Poland .. .. .	1,415,492	1,354,970	1,217,952
Russia (years ended Sept. 30) .. .. .	4,085,832	4,647,900	5,650,000
Spain .. .. .	764,770	987,611	848,966
Sweden .. .. .	567,072	682,959	601,157
Mexico .. .. .	86,535	110,777	111,929
United States .. .. .	51,544,180	56,433,473	40,699,483
Japan .. .. .	1,923,247	2,306,058	2,203,914
China (estimated) .. ..	30,000	30,000	30,000
Total ..	97,300,000	106,100,000	83,800,000
WORLD'S TOTAL ..	107,900,000	118,100,000	93,200,000

\* For details see page 171.

a) Information not available.

(b) Including rails, fishplates, etc.

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

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE.</b>			
United Kingdom—			
Ingots—			
Open hearth, acid ..	2,170,500	2,403,800	1,761,000
basic ..	5,660,800	6,480,200	5,091,100
Converter, acid ..	475,900	528,700	255,900
Electric ..	49,900	56,600	40,400
Castings, electric ..	28,500	30,200	35,600
other ..	134,100	136,700	141,700
Canada—			
Ingots, open hearth ..	1,189,399	1,295,162	919,155
electric ..	602	14,444	30,041
Castings—			
Open hearth, basic ..	20,109	35,806	26,142
Bessemer ..	2,019	2,590	2,238
Electric ..	22,590	30,022	25,933
India—			
Ingots—			
Open hearth, basic ..	181,341	252,153	234,279
Duplex steel (b) ..	225,762	319,423	381,571
Castings ..	2,607	3,734	3,072
<b>FOREIGN COUNTRIES</b>			
Belgium—			
Ingots, open hearth ..	398,122	394,057	} 3,419,753
Bessemer basic ..	3,345,081	3,538,290	
electric ..	13,936	13,523	
Castings, open hearth ..	29,241	24,113	} 102,308
converter ..	57,025	73,245	
electric ..	285	1,368	
Czechoslovakia—			
Ingots, open hearth ..	1,570,108	1,788,938	1,500,698
Bessemer ..	257,754	252,227	211,636
electric ..	55,094	70,093	41,487
crucibles ..	71	59	21
Castings ..	44,972	47,442	34,667

(a) Information not available.

(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	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
France—			
Saar—			
Open hearth, basic ..	473,093	535,805	448,575
Bessemer .. ..	1,536,718	1,616,406	1,422,650
Electric .. ..	11,384	(b)	(b)
Castings, acid ..	6,238	5,904	8,273
basic .. ..	12,876	15,907	14,897
Other districts—			
Ingots—			
Open hearth, acid ..	29,803	21,220	28,232
basic .. ..	2,466,140	2,567,192	2,391,763
Bessemer, acid ..	—	1	—
basic .. ..	6,518,008	6,571,897	6,463,446
Crucible .. ..	14,840	15,658	8,966
Electric .. ..	115,201	136,757	137,272
Castings—			
Open hearth ..	101,828	120,947	135,787
Bessemer .. ..	73,508	99,362	117,085
Crucible .. ..	695	871	826
Electric .. ..	9,753	11,860	13,989
Germany—			
Ingots—			
Open hearth, acid ..	144,939	143,625	104,000
basic .. ..	7,226,599	8,057,666	5,842,000
Bessemer, acid ..	87	2	—
basic .. ..	6,438,464	7,273,756	5,056,000
Crucible .. ..	10,160	8,471	} 100,000
Electric .. ..	123,466	129,185	
Castings .. ..	148,442	157,140	226,000
Hungary—			
Open hearth .. ..	465,203	487,785	338,127
Electric .. ..	13,381	17,577	25,457
Italy—			
Ingots, open hearth ..	1,689,399	1,829,148	1,497,159
electric .. ..	188,302	207,753	169,074
Castings, open hearth ..	7,262	9,832	11,407
Bessemer .. ..	472	495	463
electric .. ..	43,150	41,449	37,714
Luxemburg—			
Ingots, open hearth ..	23,112	22,180	5,001
Bessemer, basic ..	2,491,292	2,628,065	2,224,578
Electric .. ..	6,593	9,333	4,481
Castings .. ..	5,567	(a)	(a)

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

Producing Country	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Poland—			
Open hearth .. ..	1,365,812	1,307,000	1,181,599
Electric .. ..	16,709	18,028	13,982
Castings .. ..	31,631	29,800	22,371
Other steel .. ..	200	—	—
Russia (years ended Sept. 30)—			
Open hearth .. ..	4,087,909	4,647,900	(a)
Bessemer .. ..			
Electric .. ..			
Spain—			
Open hearth .. ..	534,535	613,155	(a)
Bessemer .. ..	213,374	355,700	(a)
Electric .. ..	16,861	18,756	(a)
Sweden—			
Open hearth .. ..	415,379	488,283	399,489
Bessemer .. ..	65,860	82,406	86,109
Crucible .. ..	1,303	1,348	1,001
Electric .. ..	84,530	110,922	114,558
United States—			
Ingots—			
Open hearth, acid ..	454,883	576,393	367,181
basic ..	42,818,557	46,644,206	33,898,518
Bessemer .. ..	6,591,745	7,091,680	5,020,588
Crucible .. ..	6,516	5,762	1,563
Electric .. ..	453,692	532,392	307,418
Castings—			
Open hearth, acid ..	458,590	544,076	413,675
basic ..	381,926	588,213	369,798
Bessemer .. ..	28,450	30,829	14,871
Crucible .. ..	1,253	883	690
Electric .. ..	348,568	419,036	305,181
Japan—			
Ingots—			
Open hearth .. ..	1,833,961	2,202,868	(a)
Bessemer .. ..	3,287	1,031	(a)
Crucible .. ..	1,479	1,750	(a)
Electric .. ..	36,753	51,963	(a)
Castings .. ..	47,638	48,447	(a)

(a) Information not available.

(b) Included with "open hearth".

**LEAD**

## PRODUCTION OF LEAD ORE

*(In terms of metal)*

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	14,829	18,608	20,304
Kenya .. .. .	—	2	—
Nigeria .. .. .	25	42	438
Northern Rhodesia (smelter)	4,676	1,635	—
Southern Rhodesia ..	53	—	4
South West Africa ( <i>d</i> ) ..	26,300	25,500	28,500
Union of South Africa ..	40	50	6
Canada .. .. .	150,869	145,769	148,613
Newfoundland (estimated)	—	11,000	12,000
India .. .. .	101,600	102,100	114,400
Australia .. .. .	179,334	194,006	197,595
Total ..	480,000	500,000	520,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	5,870	7,388	8,754
Bulgaria (estimated) ..	6,400	7,000	3,500
Czechoslovakia .. ..	4,077	4,411	6,500
Finland .. .. .	169	268	180
France .. .. .	9,083	7,400	9,000
Germany .. .. .	56,673	59,509	67,579
Greece .. .. .	5,484	4,161	5,600
Italy .. .. .	30,942	30,051	29,445
Jugoslavia .. .. .	12,148	14,500	19,800
Norway .. .. .	—	32	639
Poland .. .. .	12,100	12,000	12,000
Portugal .. .. .	300	—	—
Rumania (smelter) ..	529	556	969
Russia (estimated) ..	2,600	6,100	11,000
Spain (smelter) .. ..	128,882	140,498	126,018
Spitzbergen .. .. .	70	48	( <i>a</i> )
Sweden .. .. .	3,284	6,925	6,300
Algeria .. .. .	7,686	8,541	7,108
Egypt .. .. .	—	134	70



PRODUCTION OF LEAD ORE (*Cont.*)

Producing Country	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Morocco (French zone) ..	3,700	3,505	(a)
Tunis .. .. .	17,000	18,000	14,000
Mexico (b) .. .. .	232,751	244,478	229,252
United States (c) .. .. .	559,958	578,567	512,268
Argentina .. .. .	1,850	3,050	(a)
Bolivia (exports) .. .. .	12,505	14,725	(a)
Brazil (estimated) .. .. .	90	(a)	(a)
Chile .. .. .	1,411	1,615	613
Peru .. .. .	30,909	(a)	(a)
China (estimated) .. .. .	3,400	5,000	(a)
French Indo-China .. .. .	246	51	20
Japan (smelter) .. .. .	3,595	3,321	3,524
Turkey (smelter) .. .. .	8,950	6,500	7,200
Korea (smelter) .. .. .	696	322	125
<b>Total ..</b>	<b>1,160,000</b>	<b>1,220,000</b>	<b>1,140,000</b>
<b>WORLD'S TOTAL ..</b>	<b>1,640,000</b>	<b>1,720,000</b>	<b>1,660,000</b>

(a) Information not available.

(b) Amount estimated as recoverable. The estimated lead content of the ore mined in Mexico during 1928 was 243,988 long tons.

(c) Recoverable lead content (excluding Virginia, which was previously about 2,000 long tons a year).

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

## METAL PRODUCTION OF LEAD

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	8,502	10,668	10,219
Northern Rhodesia ..	4,676	1,635	—
South West Africa ( <i>d</i> ) ..	4,925	2,758	3,603
Canada .. .. .	134,405	135,915	135,925
India .. .. .	78,344	80,233	79,826
Australia .. .. .	155,076	177,509	168,543
<b>Total ..</b>	<b>386,000</b>	<b>409,000</b>	<b>398,000</b>
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	8,007	6,465	6,825
Belgium ( <i>b</i> ) .. .. .	84,898	81,541	( <i>a</i> )
Czechoslovakia .. ..	3,017	4,536	4,158
France .. .. .	22,298	32,000	( <i>a</i> )
Germany ( <i>c</i> ) .. .. .	111,714	114,678	( <i>a</i> )
Greece .. .. .	7,191	5,276	7,200
Italy .. .. .	20,885	22,292	23,950
Jugoslavia .. .. .	10,103	10,257	9,889
Norway ( <i>e</i> ) .. .. .	376	902	787
Poland .. .. .	36,492	35,930	43,700
Portugal .. .. .	82	93	( <i>a</i> )
Rumania .. .. .	529	556	969
Russia (years ended Sept.30)	2,551	8,300	10,580
Spain .. .. .	128,882	140,498	126,018
Sweden .. .. .	—	63	( <i>a</i> )
Tunis .. .. .	17,328	18,600	19,100
Mexico .. .. .	212,093	224,478	211,167
United States .. .. .	597,615	638,988	548,537
Argentina .. .. .	6,497	7,969	( <i>a</i> )
Peru .. .. .	13,393	21,072	16,630
China ... .. .	548	( <i>a</i> )	( <i>a</i> )
French Indo-China ..	10	17	11
Brazil (estimated) ..	—	400	( <i>a</i> )

METAL PRODUCTION OF LEAD (*Cont.*)

Producing Country	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Japan .. .. .	3,595	3,321	3,524
Korea .. .. .	696	322	125
Turkey .. .. .	8,950	6,500	7,200
<b>Total ..</b>	<b>1,300,000</b>	<b>1,380,000</b>	<b>1,280,000</b>
<b>WORLD'S TOTAL</b>	<b>1,690,000</b>	<b>1,790,000</b>	<b>1,680,000</b>

(a) Information not available.

(b) Includes base bullion.

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

1928 85,600 long tons.

1929 96,400 " "

1930 109,100 " "

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

(e) Including tin.

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

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	19,214	15,421	11,457
Pig-lead .. .. .	5,599	4,848	3,773
Sheets and pipes .. .. .	5,144	4,954	6,053
Foil .. .. .	52	23	29
White lead .. .. .	10,796	9,842	6,563
Litharge, red lead, etc. ..	12,596	12,431	10,143
Northern Rhodesia—			
Pig-lead .. .. .	4,257	2,054	—
South West Africa—			
Pig-lead .. .. .	4,508	3,426	2,642
Copper-lead ore and matte	56,481	65,045	55,084
Union of South Africa—			
Ore and bullion .. .. .	16	—	—
Pigs, bars and sheets .. ..	4	10	2
Canada—			
Ore ( <i>Pb content</i> ) .. .. .	6,680	7,132	11,751
Pig-lead, etc. .. .. .	114,028	101,953	91,711
White lead .. .. .	487	23	129
Newfoundland (years ended June 30)—			
Concentrates .. .. .	—	10,501	23,451
British India—			
Ores .. .. .	(a)	616	600
Pig-lead, bars, etc. .. ..	74,773	82,742	75,267
British Malaya (including re- exports)—			
Pig-lead .. .. .	119	140	184
Sheets and pipes .. .. .	37	56	19
Australia (including re-exports)			
Ores and concentrates ( <i>Pb content</i> ) .. .. .	21,092	1,795	2,499
Pig-lead .. .. .	147,346	149,050	146,132
Sheets and pipes .. .. .	801	613	526
White lead .. .. .	67	226	296
New Zealand—			
Pig and bar .. .. .	11	—	—

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	528	102	20
Pig-lead, alloys, and scrap	1,612	1,792	4,241
Bars, sheets, rods, etc. ..	200	235	219
Red and white lead, etc. ..	4,552	3,376	2,468
Belgium-Luxemburg E. U.—			
Ore .. .. .	4,295	1,685	1,298
Pig-lead and scrap .. ..	23,491	20,697	20,618
Sheets, bars, pipes and wire	15,311	15,269	18,872
Red and white lead, etc. ..	3,925	4,929	5,411
Bulgaria—			
Ore .. .. .	571	3,710	(a)
Czechoslovakia—			
Ore .. .. .	1,015	1,416	2,082
Pig-lead, ashes, alloys and scrap .. .. .	614	337	721
Sheets, pipes, etc. .. ..	18	35	12
Red and white lead, etc. ..	34	18	2
Denmark—			
Pig-lead .. .. .	154	255	397
Plates, pipes and tubes ..	13	14	(a)
Red lead .. .. .	6	17	(a)
France—			
Ore, matte and slag .. ..	13,106	20,299	21,290
Pig-lead, argentiferous and antimonial .. .. .	965	1,348	904
Sheets, etc., and scrap ..	2,135	3,569	5,490
Red and white lead, etc. ..	898	906	2,705
Germany—			
Ore .. .. .	16,872	21,470	25,462
Pig-lead and scrap .. ..	18,695	22,008	31,157
Sheets, pipes, wire, etc. ..	5,305	5,901	8,262
Red and white lead .. ..	11,035	12,170	12,318
Greece—			
Argentiferous lead and galena	5,959	4,318	6,698

(a) Information not available.

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

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Hungary—			
Pig-lead and scrap ..	276	334	59
Sheets, pipes and wire ..	76	82	117
Red and white lead, etc. ..	30	46	38
Italy—			
Ore .. .. .	18,837	12,506	15,721
Pig-lead, scrap and alloys..	150	63	71
Sheets, pipes, wire and alloys	118	131	157
Red and white lead ..	1,123	1,525	1,069
Yugoslavia—			
Ore .. .. .	2,326	3,328	13,998
Scrap .. .. .	63	24	15
Plates and sheets .. ..	8,678	7,177	6,675
Latvia—			
Red and white lead, etc. ..	539	572	876
Netherlands—			
Pig-lead and scrap .. ..	1,023	1,247	1,208
Sheets and wire .. ..	387	303	277
Red and white lead .. ..	765	501	770
Norway—			
Pig-lead, ashes and scrap	849	333	169
Sheets, tubes and wire ..	188	95	50
Poland—			
Ore, slag, scrap, and dust ..	111	123	379
Pig-lead and bars .. ..	12,032	15,183	14,985
Sheets, tubes and wire ..	325	716	131
Red and white lead, etc. ..	1,195	959	751
Portugal—			
Ore .. .. .	401	600	65
Pig-lead .. .. .	—	5	4
Rumania—			
Ore .. .. .	2,710	(a)	5,216
Scrap .. .. .	20	(a)	79
Russia (years ended Sept. 30)—			
Concentrates .. ..	—	7,763	11,282
Spain (including re-exports)—			
Galena — non-argentiferous	1,957	3,647	4,066
do. argentiferous ..	4,765	1,519	835
Other ore .. .. .	118	375	686
Pig-lead—non-argentiferous	84,923	95,642	87,156
do. argentiferous ..	4,617	2,386	—
Pipes and sheets .. ..	1,058	1,041	2,411

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Ore .. .. .	5,889	13,328	11,144
Pig-lead and scrap .. .. .	1,853	1,355	1,436
Sheets, pipes and wire .. .. .	7	4	4
Red and white lead, etc. .. .. .	221	124	30
Switzerland—			
Ores .. .. .	712	593	700
Pig-lead, hard lead, scrap, etc. .. .. .	771	1,082	1,152
Sheets and pipes .. .. .	59	70	41
Red and white lead, etc. .. .. .	3	42	23
Algeria—			
Ore .. .. .	23,568	19,840	21,927
Pig-lead and scrap .. .. .	291	243	230
Egypt—			
Pig-lead and pipes .. .. .	5	2	(a)
Morocco (French zone)—			
Ore .. .. .	6,191	4,992	6,932
Scrap .. .. .	94	24	59
Tunis (including re-exports)—			
Ore .. .. .	3,499	1,068	214
Pig-lead and bars .. .. .	18,715	18,007	13,363
Mexico—			
Ores, etc. ( <i>Pb content</i> ) .. .. .	24,936	19,972	45,663
Pig-lead .. .. .	207,814	224,506	168,031
United States—			
Pig-lead, bars, etc. .. .. .	102,484	64,518	42,833
Red and white lead, etc. .. .. .	7,643	7,855	9,530
Argentina—			
Ore .. .. .	259	93	942
Bars, slag and ash .. .. .	41	17	100
Bolivia—			
Ore ( <i>Pb content</i> ) .. .. .	12,505	14,719	(a)
Brazil—			
Ore .. .. .	456	592	827

(a) Information not available.

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Chile—			
Ores .. .. .	3,277	3,121	1,204
Peru—			
Ore and concentrates ( <i>Pb</i> <i>content</i> ) .. .. .	3,491	3,046	(a)
Pig-lead and scrap (do.) ..	12,287	18,432	(a)
China—			
Ore .. .. .	4,749	5,131	2,377
Pig-lead .. .. .	17	17	—
Netherlands East Indies—			
Scrap.. .. .	43	71	(a)
Formosa—			
Tea-lead .. .. .	8	5	(a)
French Indo-China—			
Ore .. .. .	(a)	29	(a)
Japan—			
Tubes .. .. .	559	590	608
Red lead .. .. .	1,096	1,099	1,413
Korea—			
Pig-lead .. .. .	528	358	3
Turkey—			
Ore .. .. .	30	5,700	7,715
Pig lead, scrap and alloys..	3,945	62	4,445
Sheets and dust .. .. .	(a)	(a)	837

(a) Information not available.



## IMPORTS OF LEAD, ETC.

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	4,120	3,456	1,264
Pig-lead .. .. .	237,188	265,131	286,036
Sheets and pipes .. .. .	8,798	8,106	13,926
Foil .. .. .	80	28	21
White lead .. .. .	11,466	10,911	11,631
Litharge, red lead, etc. ..	3,429	3,449	4,493
Irish Free State—			
Pig-lead .. .. .	946	1,245	1,228
Sheets and pipes .. .. .	869	790	1,059
Red and white lead, etc. ..	855	819	807
Gold Coast—			
Bars and sheets .. .. .	292	23	123
Kenya and Uganda—			
Bars and sheets .. .. .	75	45	41
Mauritius (total imports)—			
Pig-lead, sheets and pipes..	17	65	(a)
Nigeria—			
Ore .. .. .	146	93	79
Bars and sheets .. .. .	187	97	93
Sierra Leone—			
Bars and sheets .. .. .	8	10	7
Southern Rhodesia—			
Pig-lead, bars and sheets ..	90	29	(a)
Foil .. .. .	8	10	(a)
Red and white lead, acetate, etc. .. .. .	170	169	(a)
South West Africa—			
Bars, sheets and pipes .. ..	11	11	19
Red and white lead, etc. ..	14	15	10
Tanganyika—			
Bars and sheets .. .. .	—	5	13
Union of South Africa (total imports)—			
Pig-lead, bars, sheets and pipes .. .. .	720	1,325	2,734
Foil .. .. .	113	97	77
Red and white lead, acetate etc. .. .. .	1,829	1,672	1,295
Canada—			
Pig-lead and scrap .. .. .	238	524	341
Bars, sheets, pipes, etc. ..	175	155	856
White lead, red lead, litharge, etc. .. .. .	2,797	3,481	2,007

(a) Information not available.

IMPORTS OF LEAD, ETC. (*Cont.*)  
(*Less Re-exports*)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>			
Newfoundland (years ended June 30)—			
Bars and sheets .. ..	(£1,021)	(£815)	(£1,488)
British India (total imports)—			
Ore .. .. .	246	197	262
Pig-lead, bars, etc. ..	131	226	192
Sheets, pipes, etc. ..	2,084	1,986	1,704
Litharge, red and white lead, etc... .. .	3,064	3,440	2,471
British Malaya (total imports)—			
Pig-lead .. .. .	729	433	580
Pipes and sheets .. ..	136	156	105
Ceylon (total imports)—			
Pig-lead .. .. .	3,349	2,985	2,940
Sheets and pipes .. ..	76	75	40
Tea-lead .. .. .	1,535	1,837	981
Cyprus—			
Sheets and pipes .. ..	55	7	6
Palestine (total imports)—			
Pig-lead, sheets, pipes, etc.	42	60	32
Australia—			
Pig-lead .. .. .	2	—	23
Sheets and pipes .. ..	102	123	64
White lead and lead acetate	1,814	1,642	389
New Zealand—			
Pig-lead and bars .. ..	1,164	1,267	1,611
Sheets and pipes .. ..	771	511	566
White lead .. .. .	2,319	2,581	2,120
<b>FOREIGN COUNTRIES</b>			
Austria—			
Ore .. .. .	2,092	1,972	2,184
Pig-lead, alloys, and scrap	10,073	9,642	7,604
Bars, sheets, rods, etc. ..	77	98	216
Red and white lead, etc. ..	70	116	78
Belgium-Luxemburg E.U. —			
Ore .. .. .	58,280	41,754	39,526
Pig-lead and scrap .. ..	21,057	30,843	33,782
Sheets, bars, pipes and wire	125	518	1,246
Red and white lead, etc. ..	814	981	801
Bulgaria—			
Pig-lead, sheets and scrap ..	392	425	(a)
Tubes, wire, etc. .. ..	66	58	(a)
Red and white lead, etc. (b)	507	573	(a)

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Czechoslovakia—</b>			
Ore .. .. .	54	504	148
Pig-lead, ashes, alloys and scrap .. .. .	13,074	13,069	10,663
Sheets and plates .. ..	30	16	4
Rods, pipes, wire, etc. ..	12	14	17
Red and white lead, etc. ..	1,259	1,276	1,059
<b>Denmark—</b>			
Pig-lead .. .. .	4,214	5,792	7,537
Plates, pipes and tubes ..	888	910	819
Red and white lead .. ..	655	775	763
<b>Estonia—</b>			
Pig-lead and bars .. ..	132	114	55
Sheets, pipes and wire ..	29	32	49
Red and white lead .. ..	159	119	120
<b>Finland—</b>			
Pig-lead and scrap .. ..	641	630	720
Sheets, pipes, wire, etc. ..	707	682	957
Red and white lead .. ..	1,077	698	551
<b>France—</b>			
Ore, matte and slag .. ..	31,924	34,052	36,946
Pig-lead, argentiferous and antimonial .. .. .	88,532	93,594	126,653
Sheets, etc. and scrap .. ..	2,138	4,094	7,426
Red and white lead, etc. ..	1,683	1,937	1,589
<b>Germany—</b>			
Ore .. .. .	48,025	78,282	81,595
Pig-lead and scrap .. ..	146,192	134,653	84,751
Sheets, pipes, wire, etc. ..	334	747	176
Red and white lead .. ..	1,830	1,523	1,155
<b>Greece—</b>			
Lead .. .. .	1,156	1,219	1,657
<b>Hungary—</b>			
Pig-lead and scrap .. ..	6,851	4,766	4,490
Sheets, pipes and wire ..	25	13	15
Red and white lead, etc. ..	373	220	118

(a) Information not available.

(b) Includes zinc white and lithopone.

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Italy—</b>			
Ore .. .. .	1,945	3,493	10,046
Pig-lead, scrap and alloys	26,748	24,275	17,777
Sheets, pipes, wire and alloys	111	46	21
Red and white lead ..	363	485	791
<b>Jugoslavia—</b>			
Pig-lead and scrap .. ..	226	105	82
Sheets, bars, rods and wire	187	106	147
Red and white lead, etc. ..	268	329	313
<b>Latvia—</b>			
Pig-lead, sheets and scrap	1,559	1,707	1,419
Red and white lead, etc. ..	36	31	7
<b>Lithuania—</b>			
Pig-lead, pipes and scrap ..	184	150	(a)
Red lead, etc. .. ..	39	63	64
<b>Netherlands—</b>			
Ore .. .. .	167	232	256
Pig-lead and scrap .. ..	18,294	20,809	22,549
Sheets and wire .. ..	3,260	5,031	8,256
Red and white lead, etc. ..	5,669	5,462	4,952
<b>Norway—</b>			
Pig-lead .. .. .	2,291	1,188	1,682
Bars, sheets and tubes ..	1,385	636	823
Red and white lead .. ..	733	709	844
<b>Poland—</b>			
Ore, slag, scrap and dust ..	16,069	24,595	30,269
Pig-lead and bars .. ..	70	2	2
Sheets, tubes and wire ..	19	52	83
Red and white lead, etc. ..	828	896	783
<b>Portugal—</b>			
Lead and alloys .. ..	2,522	2,175	1,984
<b>Rumania—</b>			
Pig-lead and scrap .. ..	(a)	(a)	2,397
Red and white lead, etc. ..	(a)	(a)	400
<b>Russia (years ended Sept. 30)—</b>			
Pig-lead, sheets and scrap..	48,981	31,355	62,418
Red lead .. .. .	279	339	1,104
<b>Spain (total imports)—</b>			
Ore .. .. .	1,679	715	3,522
Pig-lead and scrap .. ..	480	223	119
Sheets, pipes, wire and shot	224	36	26
<b>Sweden—</b>			
Pig-lead and scrap .. ..	7,007	8,365	11,553
Sheets, pipes and wire ..	1,720	2,182	2,123
Red and white lead .. ..	2,787	2,744	2,753

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Switzerland—</b>			
Ores .. .. .	119	179	79
Pig-lead, hard lead, scrap, etc. .. .	9,558	11,420	12,650
Sheets, pipes, wire, etc. ..	709	776	554
Red and white lead, etc. ..	454	287	388
<b>Algeria—</b>			
Ore and matte .. ..	4,096	4,056	5,198
Pig-lead, bars, sheets, etc. . .	1,159	2,234	3,670
<b>Angola—</b>			
Bars, sheets, etc. .. ..	28	(a)	(a)
<b>Belgian Congo—</b>			
Pig-lead .. .. .	689	2,648	36
<b>Egypt—</b>			
Pig-lead .. .. .	246	179	364
Sheets and pipes .. ..	485	594	671
Red and white lead, etc. ..	344	331	333
<b>Morocco—</b>			
Pig-lead, sheets and wire ..	77	164	185
<b>Mozambique—</b>			
Bars and sheets .. ..	11	26	(a)
Réunion .. .. .	4	5	(a)
<b>Togoland—</b>			
Pig-lead and sheets .. ..	9	46	(a)
<b>Tunis—</b>			
Ore .. .. .	4,165	6,711	15,680
Pig-lead, bars and scrap ..	557	120	11
Sheets, pipes, etc. .. ..	191	173	137
<b>Costa Rica (total imports)—</b>			
Bars and sheets .. ..	28	4,889	(a)
<b>Cuba (total imports)—</b>			
Pig-lead .. .. .	216	236	(a)
Sheets, pipes and wire ..	142	149	(a)
<b>Mexico—</b>			
Pig-lead .. .. .	182	173	121
Sheets and pipes .. ..	165	(a)	39
Salvador .. .. .	62	215	(a)

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>United States—</b>			
Ore and matte ( <i>Pb content</i> )	23,138	27,974	35,158
Bullion and base bullion ( <i>Pb content</i> ) ..	114,703	74,170	34,491
Pig-lead, bars and scrap ( <i>c</i> )	591	1,481	272
Red and white lead, etc. ..	133	133	86
<b>Argentina—</b>			
Ore .. .. .	6,499	7,767	6,397
Pig-lead and sheets ..	8,071	5,487	6,563
Red and white lead.. ..	856	812	343
<b>Bolivia—</b>			
Bars and sheets .. ..	8	78	(a)
<b>Brazil (total imports)—</b>			
Pig-lead, sheets and pipes..	6,653	5,839	3,640
Red and white lead .. ..	879	873	680
<b>Chile—</b>			
Pig-lead .. .. .	686	1,012	914
Bars and sheets .. ..	843	1,477	350
Red and white lead .. ..	141	26	36
<b>Colombia—</b>			
Ingots, bars and tubes ..	220	116	(a)
do. alloyed .. .. .	31	57	(a)
Red and white lead .. ..	92	106	(a)
<b>Peru—</b>			
Pig-lead, sheets, etc. ..	254	322	(a)
<b>Uruguay—</b>			
Pig-lead and pipes .. ..	1,052	902	(a)
Red and white lead .. ..	105	166	(a)
<b>Venezuela—</b>			
Pig-lead .. .. .	172	54	(a)
Red lead .. .. .	31	136	(a)
<b>China—</b>			
Pig-lead .. .. .	9,249	4,340	5,399
Tea- and sheet-lead .. ..	477	574	314
Pipes .. .. .	717	607	453
Red and white lead .. ..	1,869	1,537	1,336
<b>Formosa—</b>			
Pig-lead and slabs .. ..	73	30	(a)
Pipes, tubes, etc. .. ..	1,045	1,436	(a)
Red lead, etc. .. .. .	167	197	(a)
<b>French Indo-China—</b>			
Pig-lead and hard lead ..	167	273	(a)
Sheets, etc. .. .. .	45	46	(a)
Red and white lead .. ..	300	431	(a)

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

Importing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Japan (total imports)—			
Pig-lead .. .. .	61,157	59,595	55,098
Tea-lead .. .. .	145	152	133
Korea—			
Pipes .. .. .	560	578	1,174
Netherlands East Indies—			
Pig-lead, scrap and alloys	633	653	(a)
Sheets, etc. and alloys ..	961	861	(a)
Tea-lead .. .. .	606	624	(a)
Red and white lead ..	1,647	1,942	(a)
Philippine Islands—			
Pig-lead and sheets ..	366	460	564
Red and white lead ..	418	535	484
Siam (total imports)—			
Pig-lead .. .. .	422	326	354
Syria and Lebanon—			
Ingots and sheets .. ..	(a)	29	38
Pipes .. .. .	(a)	108	42
Turkey—			
Pig-lead, scrap and alloys..	960	1,004	342
Sheets, tubes, wire and alloys	200	131	149

(a) Information not available.

(c) Total imports.

**MAGNESITE**

PRODUCTION OF MAGNESITE  
(Long tons)

Producing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Union of South Africa—			
Crude .. .. .	1,457	1,682	1,879
Canada—			
Crude .. .. .	32,785	38,597	24,677
Caustic and dead-burnt	11,781	16,794	11,907
India—			
Crude .. .. .	24,406	23,497	16,523
Australia—			
Crude .. .. .	10,786	9,115	8,700
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude .. .. .	305,000	430,000	(a)
Caustic (c) .. .. .	37,000	(a)	(a)
Dead-burnt (c) .. .. .	69,000	88,400	(a)
Bricks (c) .. .. .	41,000	45,000	(a)
Czechoslovakia (exports less imports) (b)—			
Crude .. .. .	8,278	10,027	7,003
Calcined .. .. .	37,018	42,616	30,123
Greece—			
Crude .. .. .	102,772	82,696	76,089
Caustic (c) .. .. .	25,787	32,087	(a)
Dead-burnt (c) .. .. .	128	1,229	(a)
Italy—			
Crude .. .. .	11,505	16,901	4,057
Jugoslavia—			
Crude .. .. .	(d) 6,168	(d) 5,777	17,701
Calcined .. .. .	(a)	(a)	6,585
Norway—			
Calcined .. .. .	342	488	783
Bricks .. .. .	337	524	326
Russia (years ended Sept. 30)			
Crude .. .. .	118,090	130,614	(a)
Caustic (c) .. .. .	5,641	(a)	(a)
Dead-burnt (c) .. .. .	34,245	(a)	(a)
Bricks (c) .. .. .	17,426	(a)	(a)
United States—			
Crude .. .. .	113,571	167,554	115,464
Caustic (sales) (c) .. .. .	11,884	10,170	7,661
Dead-burnt (sales) (c) .. .. .	40,384	70,268	44,161
Manchuria—			
Crude .. .. .	(a)	31,181	(a)
Turkey—			
Crude .. .. .	—	281	317

(a) Information not available.

(b) Production figures not available; the estimated production in 1927 was 105,000 long tons.

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

(d) Serbia only.



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

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Magnesium .. .. .	9	12	14
Chloride, sulphate, etc. ..	3,437	3,647	3,655
Canada—			
Caustic and dead-burnt ..	1,640	4,714	1,653
FOREIGN COUNTRIES			
Austria—			
Crude .. .. .	1,901	1,400	911
Caustic .. .. .	22,811	27,032	26,458
Dead-burnt .. .. .	74,424	88,834	57,122
Bricks .. .. .	43,686	54,581	53,971
Chloride .. .. .	71	50	49
Sulphate .. .. .	3	7	3
Belgium-Luxemburg E. U.—			
Calcined .. .. .	302	54	159
Chloride .. .. .	25	5	93
Sulphate .. .. .	35	17	21
Czechoslovakia—			
Crude .. .. .	8,298	10,094	7,003
Calcined .. .. .	40,238	46,134	31,269
Chloride and sulphate ..	63	23	18
Denmark—			
Chloride, etc. .. .. .	9	11	(a)
France—			
Crude .. .. .	5	34	1
Calcined .. .. .	34	12	43
Magnesium .. .. .	1	2	27
Carbonate .. .. .	85	93	44
Chloride .. .. .	2,462	2,220	981
Sulphate .. .. .	36	49	79
Germany—			
Crude and calcined .. .. .	4,900	5,517	6,232
Carbonate .. .. .	726	637	586
Chloride .. .. .	36,007	42,320	39,595
Sulphate .. .. .	92,458	99,276	75,778
Greece—			
Crude .. .. .	13,258	3,469	3,209
Caustic .. .. .	16,305	9,702	10,549
Hungary—			
Sulphate .. .. .	5	7	6

(a) Information not available.

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

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Italy—			
Caustic, impure .. ..	173	293	227
do. pure .. ..	136	137	164
Carbonate .. ..	178	192	146
Chloride and sulphate ..	6	3	13
Jugoslavia—			
Crude .. ..	2,245	6,493	5,998
Calcined .. ..	75	577	3,970
Netherlands—			
Crude .. ..	20	8	6
Magnesia .. ..	14,968	17,321	15,378
Norway—			
Crude .. ..	39	20	5
Calcined .. ..	314	503	18
Bricks .. ..	387	362	695
Poland—			
Sulphate .. ..	14	11	—
Russia (years ended Sept. 30)—			
Dead-burnt .. ..	8,239	16,188	22,465
United States—			
Magnesia and manufactures	2,615	2,794	3,056
Turkey—			
Crude .. ..	33	67	69

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

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Crude .. .. .	13,883	11,585	6,738
Caustic and dead-burnt	17,123	27,276	18,856
Magnesium .. .. .	68	149	46
Chloride, sulphate, etc. ..	33,390	40,016	25,964
Union of South Africa—			
Carbonate and sulphate ..	440	438	395
Chloride .. .. .	429	441	363
Canada—			
Crude .. .. .	196	111	1,368
Oxide .. .. .	332	949	1,212
Sulphate .. .. .	2,240	2,290	2,291
Bricks .. .. .	(£28,929)	(£52,449)	(£55,195)
British India (total imports)—			
Chloride .. .. .	1,343	1,895	1,779
Sulphate .. .. .	2,161	2,230	2,987
Other salts .. .. .	54	475	32
Australia—			
Oxide .. .. .	184	244	137
Carbonate .. .. .	232	182	153
Chloride .. .. .	229	387	332
Sulphate .. .. .	1,413	1,452	1,369
New Zealand—			
Sulphate .. .. .	201	187	242
<b>FOREIGN COUNTRIES</b>			
Austria—			
Caustic .. .. .	108	117	91
Dead-burnt .. .. .	23	8	19
Bricks .. .. .	2,423	1,149	752
Carbonate .. .. .	226	221	150
Chloride .. .. .	1,645	2,227	1,714
Sulphate .. .. .	96	192	113
Belgium-Luxemburg E.U.—			
Crude .. .. .	329	83	44
Calcined .. .. .	1,052	978	621
Magnesium .. .. .	3	12	3
Carbonate .. .. .	44	86	49
Chloride .. .. .	3,969	3,892	3,145
Sulphate .. .. .	5,376	5,510	8,268
Bulgaria—			
Sulphate .. .. .	32	32	(a)

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Czechoslovakia—</b>			
Crude .. .. .	20	67	—
Calcined .. .. .	3,210	3,518	1,146
Oxide, impure .. .. .	4,528	4,901	4,694
Chloride .. .. .	5,183	5,900	5,292
Sulphate .. .. .	2	1,025	72
<b>Denmark—</b>			
Crude .. .. .	370	419	487
Oxide .. .. .	74	89	97
Chloride .. .. .	310	424	527
Sulphate .. .. .	164	193	215
<b>Estonia—</b>			
Crude .. .. .	(a)	49	29
Calcined .. .. .	79	17	30
Chloride and sulphate .. .. .	174	111	109
<b>Finland—</b>			
Magnesite and witherite .. .. .	778	835	772
Dead-burnt .. .. .	23	24	20
Carbonate .. .. .	20	45	37
Chloride .. .. .	766	666	724
Sulphate .. .. .	146	100	104
<b>France—</b>			
Crude .. .. .	3,113	2,365	2,344
Calcined .. .. .	563	1,571	6,205
Magnesium .. .. .	38	52	52
Carbonate .. .. .	703	890	1,272
Chloride .. .. .	2,485	2,423	3,869
Sulphate .. .. .	3,045	4,627	3,441
<b>Germany—</b>			
Crude .. .. .	1,482	16,906	9,389
Caustic .. .. .	28,887	31,360	29,195
Dead-burnt .. .. .	19,061	30,595	20,137
Carbonate .. .. .	50	71	82
Sulphate .. .. .	—	66	32
<b>Hungary—</b>			
Magnesite .. .. .	14,318	18,656	9,483
Oxide .. .. .	25	53	31
Chloride .. .. .	620	(a)	(a)
Sulphate .. .. .	837	853	897
<b>Italy—</b>			
Caustic, impure .. .. .	2,302	2,752	2,449
do. pure .. .. .	4	1	2
Carbonate .. .. .	29	20	25
Chloride .. .. .	1,261	1,426	1,351
Sulphate .. .. .	17,922	4,855	636

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Calcined .. .. .	1,825	2,110	1,825
Chloride and sulphate ..	854	707	705
Oxide and carbonate ..	103	115	108
Latvia—			
Crude and calcined .. ..	119	129	157
Chloride and sulphate ..	181	129	194
Lithuania—			
Crude .. .. .	—	4	} 132
Calcined .. .. .	77	115	
Salts .. .. .	129	120	
Netherlands—			
Crude .. .. .	938	1,207	451
Magnesia .. .. .	15,815	18,762	17,345
Norway—			
Calcined .. .. .	1,255	1,513	1,175
Bricks .. .. .	—	102	109
Chloride .. .. .	286	519	938
Poland—			
Crude .. .. .	3,213	3,824	3,309
Magnesia .. .. .	5	22	6
Chloride .. .. .	1,060	1,313	1,506
Sulphate .. .. .	1,170	4,306	4,187
Portugal—			
Calcined, etc. .. .. .	141	101	3
Carbonate .. .. .	11	11	11
Sulphate .. .. .	551	565	415
Chloride .. .. .	93	73	106
Rumania—			
Calcined .. .. .	(a)	(a)	29
Chloride .. .. .	(a)	(a)	98
Sulphate .. .. .	(a)	(a)	614
Spain (total imports)—			
Carbonate .. .. .	211	126	147
Chloride and sulphate ..	1,293	608	1,351
Oxide .. .. .	42	11	29
Sweden—			
Magnesite and witherite ..	1,313	2,159	2,004
Calcined and carbonate ..	85	114	(a)
Chloride .. .. .	828	1,584	(a)
Sulphate .. .. .	567	376	(a)
Switzerland—			
Calcined .. .. .	2,986	2,300	2,481

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Sulphate .. .. .	13	22	13
Egypt—			
Sulphate .. .. .	488	273	719
United States—			
Crude .. .. .	658	} 6,072	3,802
Calcined .. .. .	4,888		
Dead-burnt .. .. .	51,129	41,413	41,907
Oxide .. .. .	134	211	175
Carbonate, precipitated .. .. .	126	231	200
Chloride .. .. .	2,589	1,470	893
Sulphate .. .. .	4,669	6,045	3,607
Argentina—			
Calcined .. .. .	90	109	82
Carbonate, etc. .. .. .	69	81	87
Chloride .. .. .	36	140	178
Sulphate and chlorate .. .. .	431	468	395
Brazil (total imports)—			
Sulphate .. .. .	1,081	641	631
Chile—			
Crude .. .. .	153	353	213
Chloride .. .. .	51	126	103
Carbonate, etc. .. .. .	24	10	8
Oxide .. .. .	23	12	7
Sulphate .. .. .	204	525	282
Colombia—			
Salts .. .. .	71	126	(a)
Peru—			
Crude .. .. .	1,281	519	(a)
Salts .. .. .	27	46	(a)
Venezuela—			
Calcined .. .. .	15	6	(a)
Sulphate .. .. .	25	27	(a)
French Indo-China—			
Calcined .. .. .	44	31	(a)
Japan (excluding Kobe)—			
Crude .. .. .	10,657	(c) 10,203	(c) 4,830
Magnesia .. .. .	68	12	14
Turkey—			
Crude .. .. .	230	141	—
Salts .. .. .	148	245	210

(a) Information not available.

(c) Imports into Kobe during 1929 and 1930 (which include some dolomite) amounted to 2,608 and 2,799 long tons respectively.

## MANGANESE

PRODUCTION OF MANGANESE ORE  
(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	235	—	—
Gold Coast (exports) .. ..	324,499	408,224	417,490
Northern Rhodesia .. .. .	1,792	1,849	873
Union of South Africa .. ..	—	9,202	144,994
Canada (bog ore) .. .. .	344	269	246
India .. .. .	978,449	994,279	829,946
Unfederated Malay States ..	48,851	32,183	20,696
Australia .. .. .	167	313	125
Total ..	1,350,000	1,450,000	1,410,000
<b>FOREIGN COUNTRIES</b>			
Austria (b) .. .. .	38,938	38,437	25,176
Czechoslovakia .. .. .	97,867	95,004	83,874
France .. .. .	3,965	1,071	1,381
Germany .. .. .	207	467	2,312
Greece .. .. .	1,063	1,600	6,210
Hungary .. .. .	21,817	18,743	22,704
Italy .. .. .	10,112	9,760	10,465
Jugoslavia .. .. .	2,618	4,424	1,515
Rumania .. .. .	30,773	34,485	32,998
Russia (years ended Sept. 30)—			
Nikopol .. .. .	470,468	602,264	} 1,543,362
Tchiaturi .. .. .	190,347	634,125	
Urals .. .. .	986	550	

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

16,000 mt

## PRODUCTION OF MANGANESE ORE (Cont.)

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Spain .. .. .	13,488	17,590	15,869
Sweden .. .. .	15,541	14,378	8,542
Egypt .. .. .	135,330	188,453	119,297
Morocco (French zone) ..	2,106	12,942	(a)
Tunis .. .. .	2,500	1,356	(a)
Cuba (exports) .. .. .	85,698	8,400	(a)
Porto Rico (exports) ..	1,523	2,316	1,242
Mexico .. .. .	651	(a)	296
United States (c) .. ..	46,860	60,379	67,035
Argentina .. .. .	138	205	236
Brazil .. .. .	314,774	288,685	159,478
Chile .. .. .	9,046	3,055	6,032
China (exports) .. .. .	42,648	41,219	53,988
Japan .. .. .	17,413	18,100	(a)
Netherlands East Indies ..	24,066	20,336	(a)
Portuguese India .. .. .	4,098	(a)	(a)
Turkey .. .. .	59	148	900
<b>Total (j) ..</b>	<b>1,600,000</b>	<b>2,100,000</b>	<b>2,200,000</b>
<b>WORLD'S TOTAL (j)</b>	<b>2,900,000</b>	<b>3,600,000</b>	<b>3,600,000</b>

(a) Information not available.

(c) Shipments. Excluding ore containing 10-35% Mn, which is included with iron-ore, as follows:—

1928 .. .. .	90,581 long tons
1929 .. .. .	78,191 " "
1930 .. .. .	77,417 " "

(j) See notes (b) and (c) p. 197.



## EXPORTS OF MANGANESE ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ferro-manganese and spiegeleisen .. ..	56,643	88,173	45,042
Gold Coast—			
Ore .. .. .	324,499	408,224	417,490
Canada—			
Ferro-manganese and other ferro-alloys .. ..	24,813	34,044	24,277
Union of South Africa—			
Ore .. .. .	—	—	52,903
British India—			
Ore (b) .. .. .	658,567	779,550	602,449
Ferruginous manganese ore	11,860	22,560	5,750
Ferro-manganese .. ..	3,108	4,198	—
British Malaya (c)—			
Ore .. .. .	(a)	(a)	20,697
Australia (including re- exports)—			
Ore .. .. .	—	80	80
New Zealand—			
Ore .. .. .	—	—	2
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Ore .. .. .	385	420	186
France—			
Ore .. .. .	3,164	3,115	4,904
Ferro-manganese .. ..	1,113	3,014	3,465
Manganese dioxide ..	111	212	61
Germany—			
Ore .. .. .	810	1,392	1,668
Ferro-manganese .. ..	17,721	19,824	9,812
Hungary—			
Ore .. .. .	13,729	(a)	(a)
Italy—			
Ore, including manganiferous iron ore .. .. .	—	1,581	—
Ferro-manganese .. ..	230	1,155	1,348
Ferro-silicon-manganese ..	1,725	3,408	814
Jugoslavia—			
Ore .. .. .	1,838	148	98
Ferro-silicon-manganese ..	107	103	—

(a) Information not available.

(b) Excluding manganese ore mined in British India, but exported via the Portuguese port of Mormugao—1928, 175,577 tons, 1929, 184,939 tons.

(c) Including re-exports.

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Ore .. .. .	1,588	1,266	955
Norway—			
Ferro-manganese .. ..	76,089	67,892	47,092
Poland—			
Ferro-manganese .. ..	5,316	4,410	1,319
Russia (years ended Sept. 30)			
Ore .. .. .	491,003	885,755	860,706
Spain (including re-exports)—			
Ore .. .. .	41,783	61,545	34,465
Sweden—			
Ore .. .. .	469	484	184
Ferro-manganese and spie- geleisen .. .. .	906	871	685
Ferro-manganese-silicon and ferro-silicon .. ..	21,646	20,636	13,823
Algeria—			
Ore .. .. .	1,453	443	1,558
Morocco (French zone)—			
Ore .. .. .	2,110	235	150
Tunis (including re-exports)—			
Ore .. .. .	1,732	1,159	—
Cuba—			
Ore .. .. .	85,698	8,400	(a)
United States—			
Ferro-manganese and spie- geleisen .. .. .	9,440	1,574	6,189
Brazil—			
Ore .. .. .	356,114	288,685	189,088
Chile—			
Ore .. .. .	9,046	3,065	6,040
China—			
Ore .. .. .	42,648	41,219	53,988
Japan—			
Ore .. .. .	1,547	1,735	1,535
Netherlands East Indies—			
Ore .. .. .	14,663	15,236	10,765

## IMPORTS OF MANGANESE ORE, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	205,938	289,183	222,301
Ferro-manganese and spiegeleisen .. ..	5,795	6,251	5,516
Union of South Africa—			
Ferro-manganese .. ..	318	445	548
Manganese dioxide .. ..	21	36	33
Canada—			
Ferro-alloys .. .. .	5,435	7,560	3,700
Ore (oxide) .. .. .	95,038	88,517	88,194
British Malaya— (b)			
Ore .. .. .	(a)	(a)	49
Australia—			
Ore .. .. .	118	275	477
New Zealand—			
Ore .. .. .	—	—	2
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	74	401	70
Belgium-Luxemburg E.U.—			
Ore .. .. .	262,938	323,476	255,543
Czechoslovakia—			
Ore .. .. .	25,787	27,304	43,358
Denmark—			
Ore .. .. .	1,242	1,774	1,554
Finland—			
Ore .. .. .	82	103	123
France—			
Ore .. .. .	729,473	787,868	699,321
Ferro-manganese .. ..	15,559	10,939	1,960
Manganese dioxide .. ..	258	43	255
Germany—			
Ore .. .. .	279,750	384,118	330,482
Ferro-manganese .. ..	4,300	3,122	2,180
Hungary—			
Ore .. .. .	13	(a)	(a)
Italy—			
Ore, including manganiferous iron ore .. .. .	93,860	105,098	70,489
Ferro-manganese .. ..	144	393	24
Ferro-silicon-manganese .. ..	32	69	95

(a) Information not available.

(b) Total exports.

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Jugoslavia—			
Ore .. .. .	56	21	4,989
Ferro-manganese .. ..	1,749	2,148	1,184
Netherlands—			
Ore .. .. .	5,957	13,441	2,716
Norway—			
Ore .. .. .	137,917	158,582	170,817
Poland—			
Ore .. .. .	40,726	55,116	35,952
Ferro-manganese .. ..	1,248	7	22
Manganese dioxide .. ..	95	91	123
Spain (total imports)—			
Ore .. .. .	13,263	7,593	10,167
Ferro-manganese .. ..	2,760	7,014	3,906
Sweden—			
Ore .. .. .	347	477	404
Ferro-manganese and spie- geleisen .. .. .	1,441	1,674	1,524
Ferro-manganese-silicon and ferro-silicon .. .. .	319	162	336
Algeria—			
Ore .. .. .	2,194	1,020	142
Mexico—			
Ferro-manganese .. ..	249	(a)	(a)
United States—			
Ore ( <i>Mn content</i> ) .. ..	207,808	323,415	281,459
Ferro-manganese and other alloys ( <i>Mn content</i> ) (b) ..	47,550	62,785	38,452
Argentina—			
Dioxide and borate of manganese .. .. .	54	45	76
Japan (total imports)—			
Ferro-manganese .. ..	2,088	2,429	2,097

(a) Information not available.

(b) Total imports.

## MICA

PRODUCTION OF MICA  
(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
Kenya .. .. .	(1,190 lb.)	2	—
Northern Rhodesia .. .. .	4	3	4
Southern Rhodesia .. .. .	183	169	162
South West Africa (waste) .. .. .	—	31	—
Tanganyika Territory.. .. .	33	29	21
Union of South Africa (b) .. .. .	3,572	1,525	878
Canada—			
Rough cobbled .. .. .	—	—	20
Thumb trimmed .. .. .	41	43	4
Splittings .. .. .	11	10	34
Scrap.. .. .	3,216	3,566	987
Ceylon (exports) .. .. .	—	(12 cwt.)	—
British India (exports)—			
Sheet.. .. .	621	890	741
Splittings .. .. .	4,153	4,914	3,404
Australia .. .. .	12	27	26
FOREIGN COUNTRIES			
Norway (exports)—			
Sheet.. .. .	2	—	1
Scrap.. .. .	82	58	51
Russia (years ended Sept. 30).. .. .	1,469	(a)	(a)
Sweden .. .. .	12	65	72
Madagascar—			
Muscovite .. .. .	41	(c) 28	(c) 18
Phlogopite, etc. .. .. .	800	(c) 392	(c) 372
United States (sales)—			
Sheets (uncut) .. .. .	751	909	654
Scrap.. .. .	6,929	5,583	6,011
Argentina .. .. .	118	117	98
Brazil .. .. .	74	44	51
Korea .. .. .	28	22	28
Guatemala .. .. .	13	2	(a)

(a) Information not available.

(b) Nearly all scrap.

The following amounts of lithium mica were produced .

	1928	1929	1930	
South West Africa ..	—	—	250	long tons.
France .. .. .	1,000	(a)	(a)	" "
Germany .. .. .	265	777	(a)	" "
Portugal .. .. .	336	740	269	" "

(c) Exports.

## EXPORTS OF MICA

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom— Sheet and splittings .. ..	2	15	8
Kenya .. .. .	—	2	—
Southern Rhodesia .. ..	198	171	207
Tanganyika Territory .. ..	40	27	21
Union of South Africa .. ..	3,245	844	—
Canada—			
Rough-cobbed and thumb- trimmed .. .. .	28	1	1
Splittings .. .. .	75	81	35
Scrap and waste .. ..	3,880	4,276	928
British India—			
Sheet .. .. .	621	890	741
Splittings .. .. .	4,153	4,914	3,404
Ceylon .. .. .	—	(12 cwt.)	—
FOREIGN COUNTRIES			
Austria .. .. .	7	4	5
Belgium-Luxemburg E.U.— Sheet and plate .. ..	13	17	3
France—			
Unmanufactured .. ..	181	334	207
Sheet, plate and manufactures	236	198	80
Germany— Unmanufactured .. ..	61	67	75
Italy .. .. .	5	6	5
Norway—			
Sheet .. .. .	2	—	1
Scrap .. .. .	82	58	51

EXPORTS OF MICA (*Cont.*)

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Russia (years ended Sept. 30)	105	25	224
Sweden (including manufactured)	11	22	(a)
Switzerland (including asbestos)	6	23	8
Madagascar .. .. .	625	420	390
United States (including manu- factured) .. .. .	1,635	2,762	2,113
Argentina .. .. .	52	52	60
Brazil .. .. .	43	44	51

(a) Information not available.

## IMPORTS OF MICA

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Sheet and splittings .. ..	1,247	1,088	998
Ground .. .. .	578	749	963
Union of South Africa—			
Micanite sheets .. .. .	(£493)	(£1,211)	(£1,038)
Newfoundland (years ended June 30) .. .. .	(£51)	(£88)	(£28)
British India (total imports)—			
Sheet .. .. .	17	63	31
Splittings .. .. .	22	2	19
Australia .. .. .	—	(8 cwt.)	—
<b>FOREIGN COUNTRIES</b>			
Austria—			
Unmanufactured .. ..	21	61	66
Sheet .. .. .	41	28	26
Belgium-Luxemburg E.U.—			
Crude sheet and plate .. ..	49	68	144
Cut sheet and plate .. ..	34	37	31
Denmark .. .. .	21	114	130
France—			
Unmanufactured .. ..	951	911	1,127
Sheet, plate and manufactures	278	250	51
Germany—			
Unmanufactured .. ..	1,011	969	610
Italy—			
Unmanufactured and sheet ..	166	159	269
Netherlands .. .. .	4	32	39
Poland .. .. .	29	24	27
Russia (years ended Sept. 30) ..	6	8	25
Spain (total imports)—			
Sheet .. .. .	7	8	9



IMPORTS OF MICA (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Sweden—			
Mica and manufactured ..	100	73	(a)
Switzerland (including asbestos)	1,055	1,298	800
United States (total imports)—			
Unmanufactured .. ..	224	588	2,034
Cut, splittings and manufactures	1,416	2,541	1,246
Chile .. .. .	2	2	3

(a) Information not available.

## MOLYBDENUM

### PRODUCTION OF MOLYBDENUM ORE

(In cwt. of concentrates)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Canada (MoS <sub>2</sub> ) .. ..	—	258	—
Australia .. .. .	40	10	105
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	96	77	5
Norway (MoS <sub>2</sub> ) .. ..	3,287	3,478	4,193
Russia (years ended Sept. 30) .. .. .	33	(a)	(a)
French Morocco (ore) ..	787	20	(a)
United States (sales). (Mo content) .. .. .	29,725	34,863	(a)
Korea .. .. .	609	582	520

(a) Information not available.

EXPORTS OF MOLYBDENUM ORE, ETC.  
(Domestic Produce)  
(Cwt.)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Canada—			
Ore ( <i>Mo content</i> ) .. .. .	—	—	180
Australia (including re-exports)—			
Ore .. .. .	40	585	26
<b>FOREIGN COUNTRIES</b>			
France—			
Molybdic acid and molybdates	20	26	2
Norway—			
Ore .. .. .	4,462	5,944	6,548
Morocco (French zone)—			
Ore .. .. .	18	29	16

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

Importing Country and Description.	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore .. .. .	4,308	5,336	6,715
<b>FOREIGN COUNTRIES</b>			
France—			
Molybdic acid and molybdates	79	61	65
Italy—			
Ferro-molybdenum .. .. .	8	24	78
Jugoslavia—			
Ore .. .. .	11	—	—
United States—			
<i>Mo content</i> of—			
Ferro-molybdenum, etc. ..	5	15	(a)
Russia (years ended Sept. 30)—			
Ferro-molybdenum .. .. .	(a)	600	5,080

(a) Information not available.

**MONAZITE**

## PRODUCTION OF MONAZITE

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
India .. .. .	103	180	14
<b>FOREIGN COUNTRIES</b>			
Brazil .. .. .	—	88	15

*(a)* Information not available.

EXPORTS OF MONAZITE, ETC.  
(Domestic Produce)

Exporting Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE</b>				
United Kingdom—				
Thorium nitrate .. ..	Cwt.	5	—	—
Gas mantles .. ..	Gross	18,832	26,317	20,359
British India—				
Monazite sand.. ..	Long ton	80	312	—
British Malaya (including re- exports)—				
Gas mantles .. ..	Gross	(a)	130	113
Ceylon—				
Monazite sand.. ..	Long ton	85	—	—
<b>FOREIGN COUNTRIES</b>				
Belgium-Luxemburg E.U.—				
Gas mantles .. ..	Cwt.	220	195	108
France—				
Thorium nitrate and other rare-earth salts .. ..	Cwt.	91	47	60
Gas mantles .. ..	Gross	1,729	1,583	2,181
Germany—				
Gas mantles .. ..	Gross	123,300	121,300	104,900
Italy—				
Gas mantles .. ..	Gross	1,000	1,264	2,500
Netherlands—				
Gas mantles .. ..	Cwt.	69	(b) 28	(b) 67
Sweden—				
Gas mantles .. ..	Cwt.	177	184	87
Switzerland—				
Gas mantles .. ..	Cwt.	2	1	—
United States—				
Gas mantles .. ..	Gross	20,076	26,416	18,686
Brazil—				
Monazite sand.. ..	Long ton	100	88	15

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. In the case of the Netherlands, however, weight of packing, etc., is included.

(a) Information not available.

(b) Recorded in numbers ; figure refers to number of gross.

## IMPORTS OF MONAZITE, ETC.

*(Less Re-exports)*

Importing Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE				
United Kingdom—				
Monazite sand .. ..	Long ton	150	292	(c) 1
Thorium nitrate .. ..	Cwt.	554	594	356
Gas mantles .. ..	Gross	10,146	9,739	7,834
Irish Free State—				
Gas mantles .. ..	Gross	3,541	3,239	3,311
Canada—				
Gas mantles .. ..	£	10,451	9,870	8,885
Thorium nitrate, etc. .. ..	£	1,882	530	1,153
British India (total imports)—				
Gas mantles .. ..	£	51,774	55,754	43,378
British Malaya (total imports)—				
Gas mantles .. ..	Gross	(a)	7,176	3,286
Ceylon—				
Gas mantles .. ..	Gross	2,201	1,856	1,327
Australia—				
Gas mantles .. ..	Gross	8,282	7,548	7,271
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Gas mantles .. ..	Cwt.	140	201	173
Estonia—				
Gas mantles .. ..	Gross	165	131	207
France—				
Thorium nitrate and other rare-earth salts .. ..	Cwt.	43	35	43
Gas mantles .. ..	Gross	785	1,125	736
Germany—				
Monazite sand .. ..	Long ton	144	866	123
Gas mantles .. ..	Gross	160	69	111
Hungary—				
Gas mantles .. ..	Cwt.	20	10	14
Italy—				
Gas mantles .. ..	Gross	124	83	63
Thorium and cerium salts .. ..	Cwt.	21	20	29
Jugoslavia—				
Gas mantles .. ..	Cwt.	53	92	33
Netherlands—				
Gas mantles .. ..	Cwt.	943	(b) 10,000	(b) 8,740
Norway—				
Gas mantles .. ..	Cwt.	17	35	21
Poland—				
Gas mantles .. ..	Cwt.	43	22	24
Portugal—				
Gas mantles .. ..	Cwt.	37	19	25

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

Importing Country and Description.	Unit.	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Sweden—				
Thorium nitrate and other rare-earth salts .. ..	Cwt.	92	103	(a)
Gas mantles .. ..	do.	11	7	2
Switzerland—				
Gas mantles .. ..	Cwt.	8	10	7
Egypt—				
Gas mantles .. ..	£	15,299	18,435	16,141
United States—				
Monazite sand and thorite ..	Long ton	395	515	(a)
Thorium nitrate .. ..	Cwt.	111	87	36
Gas mantles .. ..	Gross	6,014	7,574	(a)
Brazil (total imports)—				
Gas mantles .. ..	Cwt.	18	17	15

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. In the case of the Netherlands, however, weight of packing, etc., is included.

(a) Information not available.

(b) Recorded in number ; figure refers to number of gross.

(c) Excess of re-exports.

**NICKEL**

## PRODUCTION OF NICKEL ORE

*(In terms of metal)*

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
Canada .. .. .	43,194	49,230	46,325
India (b) .. .. .	727	830	850
Australia .. .. .	—	85	118
Total .. .. .	43,900	50,100	47,300
FOREIGN COUNTRIES			
Greece .. .. .	648	254	(a)
Norway .. .. .	403	431	862
United States (d) .. .. .	466	306	275
New Caledonia .. .. .	4,000	4,100	4,800
Total .. .. .	5,500	5,100	6,200
<b>WORLD'S TOTAL</b>	<b>49,000</b>	<b>55,000</b>	<b>53,000</b>

*(a)* Information not available.*(b)* Nickel content of speiss obtained as a by-product in smelting operations.*(d)* Nickel content of salts and nickel produced as a by-product in the electrolytic refining of copper.



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

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Cubes, rondels, etc. ..	8,133	8,124	4,318
Plates, sheets and anodes..	325	288	201
Ingots, sheets, etc. (alloys)	873	731	772
Nickel oxide.. .. .	5	9	9
Canada—			
Ore, matte, etc. ( <i>Ni content</i> )	16,237	13,228	20,040
Nickel, fine .. .. .	22,852	30,539	19,251
Nickel oxide ( <i>Ni content</i> ) ..	4,289	5,179	1,667
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude and scrap .. .. .	458	249	307
Sheets, tubes, etc. .. ..	319	284	245
Belgium-Luxemburg E.U.—			
Ingots, etc. .. .. .	564	251	265
Sheets, wire, etc. .. .. .	1,253	1,634	1,725
Czechoslovakia—			
Crude and scrap .. .. .	14	11	8
Denmark—			
Sheets, rods, wire and alloy	—	6	6
France—			
Ore .. .. .	—	37	27
Matte and speiss .. .. .	26	34	24
Ingots .. .. .	374	136	378
do. (alloys) .. .. .	48	18	11
Sheets and wire .. .. .	60	41	19
do. (alloys) .. .. .	89	126	120
Nickel sulphate and oxide..	27	30	589

(a) Information not available.

EXPORTS OF NICKEL (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Germany—			
Nickel and chrome ores ..	93	297	624
Crude and coin .. ..	2,239	2,056	1,835
Bars, sheets, wire, etc. ..	252	498	390
Hungary—			
Crude, scrap and alloys ..	25	19	2
Italy—			
Nickel and alloys .. ..	264	186	468
Netherlands—			
Crude and scrap .. ..	52	96	64
Norway—			
Ingots .. .. .	456	390	697
Sweden—			
Crude .. .. .	5	7	—
Switzerland—			
Crude, scrap, and alloys ..	546	476	309
Bars, sheets, etc., and alloys	446	670	498
United States—			
Nickel and alloys.. ..	1,049	1,281	1,268
Nickel-silver bars, etc. ..	627	466	501
New Caledonia—			
Ore .. .. .	—	1,369	25
Matte, etc. .. .. .	2,424	5,329	6,833

## IMPORTS OF NICKEL

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Ore and matte (b) .. ..	(c) 3,469	526	18
Cubes, rondels, etc. .. ..	1,083	678	607
Plates, sheets and anodes .. ..	98	30	113
Ingots, sheets, etc. (alloys) .. ..	1,114	1,044	1,014
Nickel oxide .. ..	42	44	56
Irish Free State—			
Nickel, alloys and manufactures .. ..	226	225	223
Canada—			
Ingots or blocks and alloys .. ..	97	14	17
Bars, rods, sheets, etc. .. ..	326	555	500
do. (alloys) .. ..	98	147	100
British India (total imports)—			
Nickel-silver .. ..	1,251	918	958
Australia—			
Ingots, sheets, scrap, etc. .. ..	17	35	24
FOREIGN COUNTRIES			
Austria—			
Crude and scrap .. ..	1,245	1,015	879
Sheets, tubes, etc. .. ..	19	24	11
Belgium-Luxemburg E.U.—			
Ingots, scrap, etc. .. ..	1,924	3,151	2,383
Sheets, wire, etc. .. ..	318	189	288
Czechoslovakia—			
Crude and scrap .. ..	940	965	480
Plates and sheets .. ..	52	477	256
Denmark—			
Ingots, etc. .. ..	11	12	20
Sheets, rods, wire and alloys .. ..	156	165	161

(b) Canada records exports to the United Kingdom of nickel contained in ore, matte or speiss as follows:—1928, 11,777 long tons; 1929, 6,466 long tons; 1930, 13,825 long tons.

(c) Excess of re-exports.

IMPORTS OF NICKEL (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Finland—			
Crude and scrap .. ..	14	16	3
France—			
Ore .. .. .	3,469	1,182	3,041
Matte and speiss .. ..	2,283	2,518	2,597
Ingots .. .. .	1,750	2,786	1,127
do. (alloys) .. .. .	17	68	53
Sheets and wire .. ..	200	345	353
do. (alloys) .. .. .	495	408	748
Nickel sulphate and oxide	951	1,368	956
Germany—			
Ore .. .. .	2,299	13,599	11,624
Crude and coin .. .. .	4,102	4,409	2,609
Bars, sheets, wire, etc. ..	295	327	295
Greece .. .. .	2	3	14
Hungary—			
Crude, scrap and alloys ..	37	68	71
Bars and wire .. .. .	64	57	34
Italy—			
Ingots, scrap and alloys ..	1,303	1,683	1,630
Sheets, tubes, wire, etc. and alloys .. .. .	112	75	160
Jugoslavia—			
Crude, scrap and coin .. ..	2	4	2
Bars, sheets, wire, etc. ..	2	4	9
Netherlands—			
Crude and scrap .. .. .	171	168	99
Poland—			
Ingots, sheets, scrap, etc. ..	285	379	274
Portugal .. .. .	1	11	3
Rumania—			
Crude and sheets .. .. .	(a)	(a)	12
Russia (years ended Sept. 30)—			
Ingots, sheets, etc. .. ..	1,705	794	2,127
Spain (total imports)—			
Ingots and cubes .. .. .	175	201	200
Sheets, tubes, wire and alloys .. .. .	127	178	139
Sweden—			
Crude .. .. .	379	569	490
Sheets .. .. .	15	25	(a)
Switzerland—			
Crude, scrap, and alloys ..	834	526	582
Bars, sheets, etc. and alloys.	530	517	366
Algeria—			
Sheets, wire and alloys ..	13	11	(a)

IMPORTS OF NICKEL (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Egypt—			
Nickel and alloys .. ..	31	48	8
United States—			
Ore and matte .. ..	8,299	12,938	9,193
Crude, etc., and alloys .. ..	21,873	28,759	17,108
Nickel oxide .. ..	778	1,458	604
Brazil (total imports)—			
Cubes and sheets .. ..	18	14	51
Chile .. ..			
Bars and plates .. ..	8	13	44
China—	177	112	56
Japan (total imports)—			
Ingots and grains .. ..	1,042	728	515
Other nickel .. ..	21	30	19
Netherlands East Indies—			
Crude, etc., and alloys .. ..	7	8	19
Philippine Islands—	4	1	3
Turkey—			
Nickel and alloys .. ..	111	18	1

(a) Information not available.

## NITRATES

### PRODUCTION OF NITRATES (NATURAL) (Long tons)

Producing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
India—			
Nitrate of potash (estimated)	4,700	4,900	4,100
<b>FOREIGN COUNTRIES</b>			
Spain—			
Nitrified earth .. ..	837	1,000	(a)
Egypt—			
Nitrate shale (5% nitrate) ..	604	940	1,634
Chile—			
Nitrate of soda .. ..	3,112,573	3,186,461	2,402,700
China—			
Nitrified earth .. ..	5,000	5,000	5,000

(a) Information not available.

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

Producing country and Description.	1928	1929	1930
BRITISH EMPIRE			
Great Britain— Ammonium salts expressed as sulphate (25½% NH <sub>3</sub> ) (c) .. .. .	622,242	912,259	777,090
Irish Free State— Ammonium sulphate ..	(a)	1,891	(a)
Union of South Africa— Ammonium sulphate ..	942	1,039	215
Canada— Ammonium sulphate ..	28,090	30,483	21,333
Cyanamide .. .. .	118,723	150,872	(a)
India— Ammonium sulphate ..	15,082	(a)	(a)
Australia (year ended June 30)—			
New South Wales— Ammonium sulphate ..	17,488	17,617	12,369
Victoria— Ammonium sulphate ..	3,441	2,689	(a)
South Australia— Ammonium sulphate ..	1,176	1,113	(a)
Tasmania— Ammonium sulphate ..	—	44	(a)

\* Includes by-product ammonium sulphate which is separately recorded on pages 71-74.

(a) Information not available.

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

1928 .. ..	559,000 long tons.
1929 .. ..	829,000 " "
1930 .. ..	671,000 " "

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS  
(Cont.)

Producing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES			
Austria—			
Ammonium sulphate ..	4,943	5,658	6,900
Belgium—			
Ammonium sulphate ..	125,000	188,170	(a)
Czechoslovakia—			
Ammonium sulphate ..	64,241	69,259	79,706
Cyanamide .. ..	24,755	30,478	26,920
Denmark—			
Ammonium sulphate ..	4,000	4,000	(a)
Finland—			
Ammonia .. .. .	150	129	(a)
France—			
Saar—			
Ammonium sulphate ..	27,660	27,347	29,100
Other districts—			
Ammonium sulphate ..	210,000	255,000	357,000
Cyanamide .. .. .	54,000	63,000	69,000
Nitrate of soda .. ..	(a)	900	(a)
Nitrate of lime .. ..	25,100	26,000	51,000
Ammonium sulphate nitrate .. .. .	—	250	4,500
Other nitrogen fertilizers	13,000	15,000	25,000
Germany—			
Ammonium sulphate ..	1,550,000	2,224,000	(a)
Cyanamide .. .. .	425,000	430,000	(a)
Nitrate of lime .. ..	640,000	720,000	(a)
Nitrate of soda .. ..	194,000	226,000	(a)
Ammonium sulphate nitrate	200,000	200,000	(a)
Urea and nitrophoska ..	70,000	100,000	(a)
Ammonia products—			
Gas-works .. .. .	(a)	33,400	31,300
Coke ovens .. .. .	461,000	524,000	(a)
Ammonium sulphate—			
By-product of brown coal, shale and peat carbonization .. .. .	4,200	4,200	(a)



ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS  
(Cont.)

Producing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Ammonium sulphate ..	1,216	(a)	995
Ammonium chloride ..	(a)	313	350
Italy—			
Ammonium sulphate ..	122,195	142,316	128,740
Cyanamide .. .. .	54,059	67,300	102,000
Nitrate of lime .. ..	3,720	9,678	38,680
Nitrate of ammonia ..	15,059	12,293	(a)
Ammonium sulphate nitrate	12	3,599	(a)
Jugoslavia (exports)—			
Cyanamide .. .. .	26,888	22,884	9,284
Luxemburg—			
Ammonium sulphate ..	6,000	6,000	(a)
Netherlands—			
Ammonium sulphate ..	46,000	58,500	(a)
Norway (years ended June 30)—			
Ammonium sulphate ..	200	(a)	(a)
Cyanamide .. .. .	56,324	70,388	50,000
Nitrate of ammonia ..	13,605	17,745	(a)
Nitrate of lime .. ..	170,599	145,869	(a)
Nitrate of soda .. ..	37,218	26,302	(a)
Nitrite of soda .. ..	2,280	653	(a)
Poland—			
Ammonium sulphate ..	36,142	52,814	63,100
Cyanamide .. .. .	105,141	146,000	78,000
Nitrate of soda .. ..	—	646	7,300
Saletzak .. .. .	—	—	9,700
Nitrophos .. .. .	8,017	15,200	49,000
Nitrate of ammonia ..	2,523	5,524	4,200
Nitrate of lime .. ..	—	50	(a)
Portugal—			
Ammonium sulphate ..	67	8	(a)
Rumania—			
Ammonium sulphate ..	122	(a)	(a)
Cyanamide .. .. .	16,976	(a)	(a)

(a) Information not available.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS  
(Cont.)

Producing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Russia (years ended Sept. 30)— Ammonium sulphate ..	13,412	19,023	9,731
Spain— Ammonium sulphate (incomplete data) .. ..	51,000	(a)	(a)
Sweden— Ammonium sulphate .. .. Cyanamide .. .. ..	7,488 13,203	20,000 14,000	8,000 15,000
Switzerland— Ammonium sulphate .. .. Cyanamide .. .. ..	936 23,000	524 10,000	(a) (a)
Algeria— Ammonium sulphate ..	541	(a)	(a)
United States— Sulphate equivalent of ammonia produced (by-product) .. .. .. do. (synthetic) .. ..	830,000 136,000	940,000 500,000	830,000 706,000
China (years ended March 30 following)— Ammonium sulphate ..	7,264	7,750	22,000
Japan— Ammonium sulphate .. .. Cyanamide (c) .. .. Nitrate of potash .. ..	228,739 157,000 997	230,903 70,000 (a)	236,000 143,000 (a)

(a) Information not available.

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

## ESTIMATED WORLD PRODUCTION AND CONSUMPTION OF NITROGEN

*(In terms of pure Nitrogen)**(Long tons)*

Production.	1928	1929	1930
By-product sulphate of ammonia .. .. .	372,000	378,000	
Synthetic sulphate of ammonia .. .. .	426,000	470,000	
Cyanamide (b) .. .. .	207,000	237,000	
Nitrate of lime .. .. .	120,000	133,000	
Other forms of synthetic nitrogen(c) .. .. .	300,000	394,000	
Other forms of by-product nitrogen (c) .. .. .	53,000	57,000	
Chilean nitrate of soda .. .. .	440,000	477,000	
<b>Total production ..</b>	<b>1,918,000</b>	<b>2,146,000</b>	<b>(a)</b>
<b>Consumption.</b>			
Manufactured nitrogen .. .. .	1,351,000	1,524,000	
Chilean nitrate of soda .. .. .	406,000	391,000	
<b>Total consumption ..</b>	<b>1,757,000</b>	<b>1,915,000</b>	<b>(a)</b>
Agricultural consumption about	1,587,000	1,702,000	(a)

*(a)* Information not available.*(b)* Excluding the bulk of the cyanamide made in Japan, which is included under synthetic sulphate of ammonia.*(c)* Including ammonia liquor used for industrial purposes.

## EXPORTS OF NITRATES

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Nitrate of potash .. ..	828	650	580
Nitrate of soda .. ..	510	441	216
Nitrate of lime .. ..	5	28	24
British India—			
Nitrate of potash .. ..	4,479	4,585	3,827
British Malaya (including re- exports)—			
Nitrate of potash .. ..	373	196	217
Australia (including re-exports)—			
Nitrate of soda .. ..	1	—	2
FOREIGN COUNTRIES			
Austria—			
Nitrate of potash .. ..	325	255	226
Belgium-Luxemburg E.U.—			
Nitrate of potash .. ..	249	245	117
Nitrate of soda .. ..	1,442	1,870	2,481
Nitrate of lime .. ..	18	21	597
Cyanamide .. ..	209	731	650
Czechoslovakia —			
Nitrate of potash .. ..	105	96	104
Nitrate of soda .. ..	700	24	13
France—			
Nitrate of potash—			
Natural .. ..	309	520	113
Synthetic .. ..	6,481	6,120	3,979
Nitrate of soda .. ..	3,724	2,935	2,022
Nitrate of lime .. ..	1,302	2,656	2,295
Cyanamide .. ..	2,839	2,554	1,223
Germany—			
Nitrate of potash .. ..	22,796	28,084	25,590
Nitrate of soda .. ..	31,910	68,315	64,167

## EXPORTS OF NITRATES (Cont.)

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Italy—</b>			
Nitrate of potash .. ..	2	1	1
Nitrate of soda .. ..	23	12	44
Nitrate of lime .. ..	16	53	5
<b>Jugoslavia—</b>			
Nitrate of soda .. ..	—	280	54
Cyanamide .. ..	26,888	22,884	9,284
<b>Netherlands—</b>			
Nitrate of potash .. ..	1,807	1,207	976
Nitrate of soda .. ..	820	1,758	1,876
Nitrate of lime .. ..	16	36	158
<b>Norway—</b>			
Nitrate of soda .. ..	34,022	27,823	27,612
Nitrate of lime .. ..	109,965	204,270	360,848
Cyanamide .. ..	53,389	64,523	47,743
<b>Poland—</b>			
Nitrate of potash .. ..	6	61	—
Nitrate of soda .. ..	15	25	2
Nitrate of lime .. ..	—	238	20
<b>Sweden—</b>			
Nitrate of potash .. ..	3	1	2
Nitrate of soda .. ..	34	9	—
Nitrate of lime .. ..	4	—	5
<b>Switzerland—</b>			
Nitrates of potash and soda .. ..	221	3,229	6,936
<b>Chile—</b>			
Nitrate of soda .. ..	2,788,157	2,851,193	1,757,525

## IMPORTS OF NITRATES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Nitrate of potash .. ..	5,656	6,022	5,044
Nitrate of soda .. ..	76,048	77,127	44,550
Nitrate of lime .. ..	4,940	3,681	3,671
Irish Free State—			
Nitrate of potash .. ..	215	196	149
Nitrate of soda .. ..	2,202	3,700	459
Mauritius—			
Nitrate of potash .. ..	2,787	3,225	(a)
Nitrate of soda .. ..	2,984	3,600	838
Northern Rhodesia—			
Nitrates .. ..	104	172	2
Southern Rhodesia—			
Nitrate of potash .. ..	19	28	(a)
Union of South Africa—			
Nitrate of potash .. ..	150	117	125
Nitrate of soda .. ..	34,259	31,318	16,535
Canada—			
Nitrate of potash .. ..	448	632	422
Nitrate of soda .. ..	23,911	30,248	28,401
Barbados—			
Nitrate of soda .. ..	30	30	105
British India (total imports)—			
Nitrate of soda .. ..	8,332	12,427	4,237
British Malaya (total imports)—			
Nitrate of potash .. ..	352	234	290
Ceylon—			
Nitrate of potash refuse .. ..	3,450	3,895	2,820
Nitrate of soda .. ..	2,806	4,986	3,656
Australia—			
Nitrate of potash .. ..	452	713	1,042
Nitrate of soda .. ..	8,122	8,280	5,351
New Zealand—			
Nitrate of potash .. ..	95	86	64
Nitrate of soda .. ..	855	2,098	1,854
FOREIGN COUNTRIES			
Austria—			
Nitrate of soda .. ..	3,632	3,581	2,983
Nitrate of potash .. ..	39	19	10
Nitrate of lime .. ..	5,117	4,931	5,429
Nitrophoska .. ..	435	1,676	3,402
Cyanamide .. ..	10,726	10,366	10,371
Belgium-Luxemburg E.U.—			
Nitrate of potash .. ..	466	1,196	1,695
Nitrate of soda .. ..	136,144	139,695	140,378
Nitrate of lime .. ..	7,383	9,366	13,500
Cyanamide .. ..	36,294	41,818	31,355
Bulgaria—			
Nitrates .. ..	178	266	(a)

## IMPORTS OF NITRATES (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Czechoslovakia—</b>			
Nitrate of potash .. ..	75	55	52
Nitrate of soda .. ..	54,235	98,631	18,631
Nitrate of lime .. ..	16,935	11,209	16,278
Cyanamide, etc. .. ..	22	28	21
<b>Denmark—</b>			
Nitrate of potash .. ..	1,382	1,273	1,491
Nitrate of soda .. ..	32,967	43,799	45,131
Nitrate of lime .. ..	104,300	144,166	129,650
Cyanamide .. ..	639	846	1,409
<b>Estonia—</b>			
Nitrate of potash .. ..	13	12	16
Nitrate of soda .. ..	1,867	2,372	2,052
Nitrate of lime .. ..	136	112	(a)
Cyanamide .. ..	(a)	72	149
<b>Finland—</b>			
Nitrate of potash .. ..	63	37	35
Nitrate of soda .. ..	1,015	211	339
Nitrate of lime .. ..	15,695	18,454	17,255
<b>France—</b>			
<b>Nitrate of potash—</b>			
Natural .. ..	15	18	16
Synthetic .. ..	217	259	200
Nitrate of soda .. ..	345,961	569,064	276,205
Nitrate of lime .. ..	25,826	20,161	27,887
Cyanamide .. ..	9,346	12,475	18,713
<b>Germany—</b>			
Nitrate of potash .. ..	336	152	66
Nitrate of soda .. ..	111,972	128,322	78,484
<b>Greece—</b>			
Nitrate of potash .. ..	111	158	155
Nitrate of soda .. ..	3,220	14,549	3,399
<b>Hungary—</b>			
Nitrate of soda .. ..	2,355	1,808	1,217
Cyanamide .. ..	14,086	11,274	4,773
<b>Italy—</b>			
Nitrate of potash .. ..	1,838	1,771	1,720
Nitrate of soda .. ..	72,892	81,823	78,700
Nitrate of lime .. ..	8,632	24,681	20,130
<b>Jugoslavia—</b>			
Nitrate of potash .. ..	124	37	28
Nitrate of soda .. ..	1,047	2,016	2,438
<b>Latvia—</b>			
Nitrate of potash .. ..	—	30	26
Nitrate of soda .. ..	995	3,031	1,678
Nitrate of lime .. ..	2,266	2,297	1,471
Nitrophoska .. ..	(a)	319	539

(a) Information not available.

## IMPORTS OF NITRATES (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Lithuania—			
Nitrate of potash .. ..	53	25	35
Nitrate of soda .. ..	841	1,125	2,036
Netherlands—			
Nitrate of potash .. ..	861	965	1,503
Nitrate of soda .. ..	170,253	183,135	60,397
Nitrate of lime .. ..	67,328	87,902	71,969
Norway—			
Nitrate of potash .. ..	138	147	154
Nitrate of soda .. ..	52	84	79
Nitrophoska .. ..	(a)	1,273	2,367
Poland—			
Nitrate of potash .. ..	284	491	412
Nitrate of soda .. ..	89,700	77,947	29,077
Nitrate of lime .. ..	6,666	47,345	47,629
Portugal—			
Nitrate of potash .. ..	315	403	364
Nitrate of soda .. ..	4,915	3,317	4,716
Rumania—			
Nitrate of potash .. ..	(a)	(a)	149
Nitrate of soda .. ..	(a)	(a)	796
Russia (years ended Sept. 30)—			
Nitrate of potash .. ..	2,175	2,088	2,175
Nitrate of soda .. ..	64,411	18,939	34,348
Nitrate of lime .. ..	726	33	21
Spain (total imports)—			
Nitrate of soda .. ..	137,937	170,452	46,094
Cyanamide .. ..	1,504	1,746	3,110
Sweden—			
Nitrate of potash .. ..	577	494	537
Nitrate of soda .. ..	38,382	42,332	36,927
Nitrate of lime .. ..	29,063	29,661	29,364
Switzerland—			
Crude nitrate of potash ..	2,111	1,888	1,781
Nitrates of potash and soda	419	462	429
Algeria—			
Nitrate of potash .. ..	44	114	97
Nitrate of soda .. ..	876	974	(a)
Nitrate of lime .. ..	1,073	398	348
Cyanamide .. ..	569	306	292
Egypt—			
Nitrate of potash .. ..	—	4	(a)
Nitrate of soda .. ..	185,055	189,908	171,143
Nitrate of lime .. ..	39,256	63,772	86,511
Cyanamide .. ..	2,060	1,636	1,169



## IMPORTS OF NITRATES (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Réunion—			
Nitrate of soda .. ..	(a)	(a)	(a)
Tunis—			
Nitrate of potash .. ..	39	45	118
Nitrate of soda .. ..	148	232	192
Mexico—			
Nitrates of potash and soda	6,421	6,252	6,450
United States—			
Nitrate of potash (total imports) .. ..	9,674	12,800	12,799
Nitrate of soda .. ..	1,014,887	921,264	557,948
Nitrate of lime .. ..	23,315	31,684	43,871
Cyanamide .. ..	135,727	184,260	144,530
Argentina—			
Nitrate of potash .. ..	111	74	171
Nitrate of soda .. ..	3,516	824	1,536
Brazil (total imports)—			
Nitrate of potash .. ..	6,130	5,105	1,362
Chile—			
Nitrate of potash .. ..	25	13	14
Colombia—			
Nitrate of potash and soda	31	35	(a)
Venezuela—			
Nitrate of potash .. ..	32	63	(a)
China—			
Nitrate of potash .. ..	1,806	1,478	1,357
Nitrate of soda .. ..	4,855	3,944	4,916
Formosa—			
Nitrate of soda .. ..	285	142	(a)
Cyanamide .. ..	—	1,673	(a)
French Indo-China—			
Nitrate of potash .. ..	122	105	(a)
Japan (total imports)—			
Nitrate of soda .. ..	51,812	87,168	30,092
Netherlands East Indies—			
Nitrate of potash .. ..	90	227	(a)
Nitrate of soda .. ..	1,368	729	(a)
Philippine Islands—			
Nitrate of soda .. ..	348	2	101
Syria and Lebanon—			
Nitrates .. ..	(a)	545	202

(a) Information not available.

## PETROLEUM AND ALLIED PRODUCTS

### PRODUCTION OF CRUDE PETROLEUM (Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom (c)			
(estimated) .. .. .	169,000	166,000	164,000
Canada (b) .. .. .	79,011	141,439	188,920
Barbados .. .. .	1,213	1,357	(a)
Trinidad (b) .. .. .	1,052,664	1,193,925	1,290,261
British Borneo (Sarawak)	739,227	748,405	691,656
India (b) .. .. .	1,181,250	1,182,039	1,200,888
Total .. .. .	3,220,000	3,430,000	3,540,000
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia .. .. .	13,709	13,645	22,436
Estonia (c) .. .. .	6,491	4,586	9,847
France .. .. .	72,742	71,000	80,564
Germany .. .. .	90,591	101,242	171,575
Italy .. .. .	5,899	5,793	7,668
Poland .. .. .	731,163	664,033	652,296
Rumania .. .. .	4,214,743	4,760,581	5,700,830
Russia (years ended Sept. 30) .. .. .	11,545,703	13,419,000	16,706,000
Algeria .. .. .	1,205	3,000	2,376
Egypt .. .. .	264,085	267,816	280,585
Morocco (French zone) .. .. .	40	40	(a)
Mexico (b) .. .. .	7,598,578	6,770,876	5,850,462
United States (b) .. .. .	121,820,800	136,124,700	121,116,900
Argentina .. .. .	1,459,600	1,319,074	1,252,722
Colombia (b) .. .. .	2,802,365	2,870,980	2,865,600
Ecuador .. .. .	153,500	188,421	212,031
Peru .. .. .	1,566,416	1,882,150	1,750,058
Venezuela .. .. .	15,077,493	19,531,514	19,835,609
Formosa (b) .. .. .	15,123	9,253	(d)
Iraq .. .. .	93,000	118,986	119,567
Japan .. .. .	262,429	253,082	274,638
Netherlands East Indies..	4,239,682	5,155,807	5,248,003
Persia .. .. .	5,700,000	5,718,745	5,940,979
Total .. .. .	177,700,000	199,300,000	188,100,000
<b>WORLD'S TOTAL</b>	180,900,000	202,700,000	191,600,000

(a) Information not available.

(b) The following conversion rates have been used: 35 gallons=1 barrel, and the undermentioned barrels=one 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.

(d) Included with Japan.

PRODUCTION OF NATURAL GAS  
(Thousand cubic feet)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom (estimated) .. ..	7,000	7,000	7,000
Canada .. ..	22,582,586	28,378,462	29,104,570
FOREIGN COUNTRIES			
Czechoslovakia .. ..	9,939	60,042	109,149
France .. .. .	11,936	11,544	(a)
Italy .. .. .	225,917	247,144	307,186
Jugoslavia .. ..	32,857	39,749	188,765
Poland .. .. .	16,226,656	16,502,076	17,180,791
Rumania .. .. .	21,648,805	28,484,879	42,594,019
Russia (years ended Sept. 30) ( <i>long tons</i> )	271,330	289,900	(a)
United States .. ..	1,568,139,000	1,917,693,000	1,943,421,000
Japan .. .. .	970,045	(a)	(a)
Netherlands East Indies ( <i>long tons</i> )	471,930	529,833	(a)

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. Large quantities of natural gas are produced in Mexico, while Argentina, Colombia, Venezuela and the Philippine Islands are other producing countries. The figures represent only that part of the gas produced which is actually utilized.

(a) Information not available.

PRODUCTION OF NATURAL ASPHALT  
(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
Barbados (exports of manjak) .. ..	59	52	10
Trinidad .. .. .	195,980	219,603	157,859
FOREIGN COUNTRIES			
Italy .. .. .	2,144	904	286
Poland (ozokerite) ..	755	822	900
Russia (years ended Sept. 30)—			
Native asphalt .. ..	21,121	(a)	(a)
Ozokerite .. .. .	4,837	(a)	(a)
Switzerland (exports) ..	20,984	19,693	16,849
Egypt (exports) .. ..	41,899	50,682	57,152
Cuba (exports) .. ..	10,957	5,219	(a)
United States (sales)—			
Gilsonite .. .. .	41,985	49,096	33,646
Ozokerite .. .. .	134	259	—
Wurtzilite .. .. .	170	179	198
Peru .. .. .	966	935	(a)
Venezuela .. .. .	47,979	27,474	—

(a) Information not available.

## PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES</b>			
Albania .. .. .	2,241	2,472	(a)
Czechoslovakia .. .. .	586	1,755	658
France .. .. .	63,262	45,082	55,655
Germany .. .. .	155,828	143,046	115,311
Greece .. .. .	3,123	1,177	(a)
Italy .. .. .	238,473	216,116	220,496
Jugoslavia .. .. .	527	62	237
Rumania .. .. .	8,735	—	—
Russia (years ended Sept. 30)	26,731	(a)	(a)
Spain .. .. .	7,613	8,860	(a)
United States (sales) ..	679,015	668,348	593,635
Netherlands East Indies ..	1,033	14,793	(a)

(a) Information not available.

## PRODUCTION OF OIL-SHALE

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	2,038,114	2,023,609	2,020,510
Australia .. .. .	2,595	4,299	5,774
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	649	660	379
Estonia .. .. .	439,169	509,476	490,090
France (including boghead coal) .. .. .	75,830	76,543	77,000
Italy .. .. .	7,271	8,101	10,923
Russia (years ended Sept. 30)	553	(a)	(a)

Oil-shale was also produced in China during 1930.

(a) Information not available.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS  
(Domestic Produce)

Exporting Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE</b>				
<b>United Kingdom—</b>				
Crude petroleum ..	Gallon	46,570	48,094	15,540
Motor spirit, etc. ..	do.	41,033,881	32,099,067	36,706,333
Kerosene ..	do.	28,853,308	16,378,969	14,571,681
Fuel oil and gas oil ..	do.	45,082,221	54,285,919	45,232,791
Fuel oil (bunkers) (b) ..	do.	232,172,241	244,784,273	247,979,487
Lubricating oil ..	do.	7,365,968	7,660,615	7,104,832
Other refined oils ..	do.	888,266	530,582	464,773
Mineral jelly ..	do.	318	319	373
Paraffin wax ..	do.	8,492	9,654	7,020
<b>Malta—</b>				
Fuel oil (bunkers) (b) ..	Gallon	836	967	1,900
<b>Sierra Leone—</b>				
Fuel oil (bunkers) (b) ..	Gallon	782,603	135	—
Other petroleum oils (bunkers) (b) ..	do.	1,940	1,058	—
<b>Union of South Africa—</b> (Foreign produce, bunkers)				
Motor spirit ..	Gallon	—	—	4,744
Kerosene ..	do.	4,388	4,966	4,174
Lubricating oil ..	do.	23,175	27,422	80,556
Fuel oil ..	do.	6,863,049	9,074,377	9,741,702
<b>Canada—</b>				
Crude petroleum ..	Gallon	21,531,929	28,177,495	19,259,585
Motor spirit ..	do.	3,957,557	4,669,078	7,256,557
Kerosene, etc. ..	do.	1,297,081	1,367,241	1,460,676
Fuel oil (bunkers) ..	do.	(c)	(c)	(c)
Mineral wax ..	Long ton	447	516	757
Other mineral oils ..	Gallon	279,946	433,634	315,779
<b>British West Indies—</b>				
<b>Barbados—</b>				
Manjak ..	Long ton	59	52	10
<b>Trinidad and Tobago—</b>				
Crude petroleum ..	Gallon	25,756,405	31,799,157	37,449,461
Motor spirit ..	do.	39,343,504	48,426,448	53,288,543
Kerosene ..	do.	539,193	1,903,291	1,804,455
Fuel oil ..	do.	157,010,616	206,173,757	175,861,921
Lubricating oil ..	do.	8,928	7,620	4,685
<b>Asphalt—</b>				
Crude ..	Long ton	27,150	29,400	20,350
Dried ..	do.	125,138	134,911	97,705

(b) Foreign produce, *see* imports.

(c) Figures of exports not shown, *see* import table.

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

Exporting Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
Aden (including re-exports)—				
Motor spirit .. ..	Gallon	52,750	76,473	43,404
Kerosene .. ..	do.	200,276	198,173	125,400
Other mineral oils ..	do.	24,190	23,066	25,992
British Borneo (Sarawak)—				
Crude petroleum ..	Long ton	235,036	152,806	124,364
Motor spirit .. ..	do.	67,974	230,717	183,933
Kerosene .. ..	do.	98,981	63,795	64,209
Fuel oil .. ..	do.	196,398	276,102	235,118
Solar oil .. ..	do.	—	11,034	37,775
British India—				
Petroleum .. ..	Long ton	13,431	18,751	19,190
Motor spirit, etc. ..	Gallon	140,755	113,038	77,355
Paraffin wax .. ..	Long ton	49,676	64,006	61,194
British Malaya (including re-exports)—				
Crude petroleum ..	Long ton	1,293	—	—
Motor spirit .. ..	do.	184,416	194,255	443,332
Kerosene .. ..	do.	112,058	99,716	118,868
Fuel oil .. ..	do.	62,318	85,293	97,533
do. (bunkers) .. ..	do.	219,379	277,311	331,019
Lubricating oil ..	Gallon	1,557,029	1,467,130	941,212
Other petroleum oils ..	Long ton	8	55	91
Paraffin wax .. ..	do.	190	270	118
Asphalt and bitumen ..	do.	2,077	2,016	1,340
Ceylon ( <i>b</i> )—				
Crude petroleum (bunkers) .. ..	Long ton	175,141	171,919	181,869
Australia (including re-exports)—				
Crude petroleum ..	Gallon	55,025	242,105	308,584
Motor spirit, etc. ..	do.	133,240	100,801	68,281
Kerosene .. ..	do.	180,025	1,863,783	77,455
Lubricating oil ..	do.	368,250	315,639	331,213
Residual and solar oils	do.	286,208	163,135	52,349
Greases .. ..	Long ton	314	291	303
Paraffin wax, etc. ..	do.	2	13	2
New Zealand—				
Fuel oil (bunkers) ( <i>b</i> ) ..	Gallon	15,433,398	16,642,009	19,129,568

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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES</b>				
<b>Austria—</b>				
Kerosene and gas oil	Long ton	5	6	29
Vaseline and paraffin wax .. .. .	do.	12	12	26
Ozokerite and ceresin	do.	228	118	73
Asphalt products ..	do.	1,787	1,512	1,363
Petroleum coke ..	do.	—	100	103
<b>Bulgaria—</b>				
Gas oil .. .. .	Long ton	2	5	(a)
Lubricating oil ..	do.	25	4	(a)
<b>Belgium-Luxemburg E.U.—</b>				
Crude petroleum ..	Long ton	112	70	306
Refined petroleum ..	do.	144	252	537
Kerosene .. .. .	do.	39	27	} 77
do. (bunkers) ..	do.	27	34	
Lubricating oil ..	do.	2,376	2,304	6,734
Fuel oil, etc. .. ..	do.	84	160	726
Other heavy oils ..	do.	1,048	2,164	529
Vaseline .. .. .	do.	778	760	791
Paraffin wax .. ..	do.	640	455	833
Ozokerite and ceresin..	do.	146	100	95
Asphalt, bitumen, etc.	do.	2,559	1,648	1,461
Residual asphalt ..	do.	1,000	1,244	803
<b>Czechoslovakia—</b>				
Crude oils .. .. .	Long ton	615	—	16
Refined oils .. ..	do.	8,553	9,533	8,900
Residual oils .. ..	do.	1	12	—
Paraffin wax .. ..	do.	512	872	1,635
Ozokerite and ceresin..	do.	383	357	285
Asphalt products ..	do.	915	1,400	1,137
<b>Denmark—</b>				
Fuel oil .. .. .	Long ton	2	7	—
Crude residual oils ..	do.	268	234	381
Lubricating oil ..	do.	265	260	322
Paraffin wax, etc. ..	do.	17	22	35
<b>Estonia—</b>				
Shale oil .. .. .	Long ton	2,476	1,836	1,344
Motor spirit .. .. .	do.	15	206	224
Oil-shale .. .. .	do.	10	2	625
<b>France—</b>				
Crude petroleum ..	Long ton	27	25	121
Kerosene .. .. .	Gallon	38,655	24,395	39,793

(a) Information not available.

(b) Foreign produce, see imports.

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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>France (<i>Cont.</i>)—</b>				
Motor spirit .. ..	Gallon	87,922	124,635	191,924
Kerosene and motor spirit—				
Bunkers (domestic produce) .. ..	Long ton	527	519	(a)
Bunkers (foreign pro- duce) .. ..	do.	7,177	9,470	(a)
Lubricating oil .. ..	do.	5,016	2,975	5,497
Heavy and residual oils—				
Bunkers (domestic produce) .. ..	do.	2,272	1,750	(a)
Bunkers (foreign pro- duce) .. ..	do.	366,547	419,403	(a)
Vaseline .. ..	do.	165	164	103
Residual oils, etc. ..	do.	3,747	2,538	5,161
Paraffin wax .. ..	do.	44	38	28
Ozokerite .. ..	do.	39	65	89
Bitumen and asphalt..	do.	32,032	33,419	30,583
<b>Germany—</b>				
Motor spirit .. ..	Long ton	6,431	7,326	6,663
Kerosene .. ..	do.	15	111	35
Gas oil .. ..	do.	69	8,469	13,475
Lubricating oil .. ..	do.	62,690	74,912	98,919
Paraffin wax .. ..	do.	200	743	316
Ozokerite, etc. ....	do.	5,702	6,259	5,478
Asphalt .. ..	do.	16,567	29,903	14,356
<b>Hungary—</b>				
Lubricating and gas oil	Long ton	601	1,101	1,160
Paraffin wax, etc. ..	do.	16	—	3
Asphalt, bitumen and tar	do.	36	92	134
Petroleum coke .. ..	do.	298	239	121
<b>Italy—</b>				
Crude petroleum .. ..	Long ton	14	5	18
Motor spirit .. ..	do.	1,277	1,758	1,682
Kerosene .. ..	do.	565	165	157
Lubricating oil .. ..	do.	3,595	6,628	5,040
Other oils and residues	do.	4,424	9,583	12,931
Paraffin wax .. ..	do.	6	5	5
Asphalt and bitumen ..	do.	77,489	112,260	114,008
Vaseline .. ..	do.	10	7	9
<b>Jugoslavia—</b>				
Motor spirit .. ..	Long ton	—	1	34
Lubricating oil .. ..	do.	1	16	55
Asphalt .. ..	do.	6	6	—
<b>Latvia—</b>				
Lubricating oil .. ..	Long ton	2,854	4,687	6,393



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

Exporting Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
Netherlands—				
Crude petroleum ..	Long ton	51	1,554	193
Motor spirit .. ..	do.	61	37	87
Kerosene .. ..	do.	58	58	250
Gas oil .. ..	do.	7,136	5,037	14,153
do. (bunkers) ..	do.	24,940	17,860	30,692
Fuel oil .. ..	do.	35,305	18,278	23,618
do (bunkers) ..	do.	79,875	90,455	69,664
Lubricating oil ..	do.	836	916	750
Vaseline .. ..	do.	139	351	278
Paraffin wax, etc. ..	do.	3,137	4,581	2,934
Greases .. ..	do.	88	173	222
Asphalt .. ..	do.	136,152	132,624	115,606
Natural asphalt ..	do.	2,393	3,003	10,500
Norway—				
Lubricating oils ..	Long ton	20	342	1,398
Poland—				
Kerosene .. ..	Long ton	34,965	50,018	21,803
Motor spirit, etc. ..	do.	54,244	37,100	33,138
Fuel oil .. ..	do.	2,680	1,734	2,981
Lubricating oils ..	do.	41,548	39,423	33,912
Greases .. ..	do.	16	47	216
Paraffin wax .. ..	do.	32,299	27,558	23,356
Ceresin and ozokerite..	do.	917	971	852
Asphalt rock .. ..	do.	59	16	27
Mastic asphalt ..	do.	514	877	112
Other asphalt and tar	do.	7,325	8,974	8,444
Rumania—				
Crude petroleum ..	Long ton	2	2,502	68,268
Motor spirit .. ..	do.	651,876	789,748	1,101,788
Kerosene .. ..	do.	677,815	762,092	926,833
Fuel oil .. ..	do.	913,195	1,158,958	1,625,195
Residual oil .. ..	do.	(a)	(a)	70,216
Paraffin wax .. ..	do.	2,860	3,422	2,330
Asphalt and bitumen..	do.	1,166	(a)	103
Russia (years ended Sept. 30)—				
Crude petroleum ..	Long ton	244,542	264,910	241,439
Motor spirit .. ..	do.	725,840	939,572	1,294,808
Kerosene .. ..	do.	680,360	761,323	784,883
Fuel oil .. ..	do.	640,822	1,034,897	1,444,970
Gas oil .. ..	do.	191,787	234,636	369,121
Solar oil .. ..	do.	49,145	65,097	67,320
Light oils .. ..	do.	22,472	76,919	45,356

(a) Information not available.

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

Exporting Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )				
Russia (years ended Sept. 30) ( <i>Cont.</i> )—				
Lubricating oil ..	Long ton	179,861	205,939	230,455
Ozokerite .. ..	do.	32	158	419
Asphalt.. .. .	do.	57	146	126
Spain (including re-exports)—				
Kerosene .. ..	Long ton	409	52	262
Motor spirit .. ..	do.	3,894	2,617	2,451
Lubricating oil ..	do.	123	220	220
Sweden—				
Crude and residual oils	Long ton	375	17	—
Motor spirit .. ..	Gallon	581,513	90,930	973,080
Kerosene .. .. .	Long ton	3,101	3,975	5,472
Lubricating oil ..	do.	698	821	919
Paraffin wax .. ..	do.	8	11	3
Asphalt.. .. .	do.	1,170	1,297	796
Pitch .. .. .	do.	36	1,270	3,504
Switzerland—				
Lubricating oil and grease .. .. .	Long ton	43	82	52
Asphalt and bitumen ..	do.	20,984	19,693	16,849
Angola—				
Motor spirit, etc. ..	Long ton	5	(a)	(a)
Belgian Congo—				
Motor spirit .. ..	Long ton	604	458	907
Kerosene .. .. .	do.	90	153	186
Other oils and greases	do.	157	120	3,270
Egypt—				
Motor spirit .. ..	Long ton	25,445	30,028	52,200
do. ( <i>additional</i> ) ..	Gallon	1,416,968	740,648	(a)
Kerosene .. .. .	Long ton	7,441	8,004	(a)
do. ( <i>additional</i> ) ..	Gallon	1,437,240	1,127,560	(a)
Fuel oil ( <i>mazout</i> ) ..	Long ton	64,134	74,536	211
do. (bunkers) .. .	do.	35,530	422,993	30,483
Solar oil .. .. .	do.	7,903	1,659	2,263
do. (bunkers) .. .	do.	114	517	159
Lubricating oil, etc. ..	do.	250	367	193
Asphalt and bitumen..	do.	41,899	50,682	57,152
Senegal (including re-exports)—				
Motor spirit (bunkers)	Long ton	107	669	49
Fuel oil (bunkers) ..	do.	19,393	89,004	92,422

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

Exporting Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Mexico—				
Domestic exports—				
Crude petroleum—				
Light .. .. .	Gallon	40,747,410	880	—
Heavy .. .. .	do.	623,612,790	541,472,050	444,982,730
Fuel oil .. .. .	do.	276,428,610	132,367,940	236,322,490
Gas oil .. .. .	do.	35,681,370	67,706,950	60,284,450
Motor spirit .. .. .	do.	75,457,270	61,804,130	85,266,180
Kerosene .. .. .	do.	47,057,960	52,023,830	51,784,530
Lubricating oils .. .. .	do.	12,610,960	15,459,670	15,462,540
Asphalt (b) .. .. .	Long ton	238,775	273,535	202,624
Refined from imported oil—				
Fuel oil .. .. .	Gallon	(a)	9,143,186	(a)
Gas oil .. .. .	do.	4,172,685	5,192,851	(a)
Motor spirit .. .. .	do.	660	840,305	(a)
Kerosene .. .. .	do.	(a)	22	(a)
Lubricating oil .. .. .	do.	199,234	146,178	(a)
Netherlands West Indies—				
Crude petroleum .. .. .	Long ton	4,421,667	2,577,000	(a)
Motor spirit .. .. .	Gallon	224,317,600	339,975,000	(a)
Kerosene .. .. .	do.	2,640,911	5,548,000	(a)
Gas oil and fuel oil .. .. .	Long ton	4,939,678	9,080,000	(a)
Diesel oil .. .. .	Gallon	19,834,903	2,800,000	(a)
Lubricating oil .. .. .	do.	33,759,920	36,477,000	(a)
United States—				
Crude petroleum .. .. .	Gallon	663,647,670	923,802,215	829,645,670
Motor spirit .. .. .	do.	1,811,311,390	2,100,233,590	2,211,896,155
Kerosene .. .. .	do.	764,632,155	693,712,320	584,114,790
Gas oil and fuel oil .. .. .	do.	1,455,061,475	1,250,017,440	1,133,221,530
do. (bunkers) .. .. .	do.	1,789,368,700	1,829,725,520	1,776,762,260
Lubricating oils .. .. .	do.	382,590,600	377,128,150	344,624,875
Mineral spirits .. .. .	do.	1,960,595	2,108,330	1,937,425
Residual oils .. .. .	do.	2,187,710	1,223,530	806,365
Greases .. .. .	Long ton	48,264	52,095	44,318
Paraffin wax .. .. .	do.	175,291	142,533	130,773
Petroleum jelly .. .. .	do.	2,859	3,158	4,925
Asphalt, bitumen, etc. .. .. .	do.	463,058	469,969	387,098
Petroleum coke .. .. .	do.	122,688	115,820	88,098

(a) Information not available.

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

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

Exporting Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Cuba (including re-exports)— Natural asphalt ..	Long ton	10,957	5,219	(a)
Argentina— Fuel oil .. ..	Long ton	447	8,643	7,815
Chile— Crude petroleum ..	Long ton	294	545	2,739
do. (bunkers) ..	do.	19,057	19,458	14,008
Motor spirit .. ..	do.	128	161	199
Kerosene .. ..	do.	141	76	162
Colombia— Petroleum .. ..	Long ton	2,448,876	2,536,500	2,614,242
Ecuador— Petroleum .. ..	Long ton	121,020	154,056	158,855
Peru— Crude petroleum ..	Long ton	762,639	1,004,006	1,009,794
Motor spirit .. ..	do.	304,521	312,314	284,572
Kerosene .. ..	do.	15,553	23,844	19,162
Fuel oil .. ..	do.	138,411	142,816	110,291
do. (bunkers) ..	do.	27,958	32,410	(a)
Lubricating oil ..	do.	1,823	1,913	1,740
Venezuela— Crude petroleum ..	Long ton	14,482,510	18,916,265	19,948,962
Motor spirit .. ..	do.	23,154	17,940	(a)
Kerosene .. ..	do.	23	89	(a)
Gas oil .. ..	do.	18,765	22,238	(a)
Asphalt .. ..	do.	42,490	26,000	(a)
Formosa— Crude and heavy oils ..	Gallon	2,204,208	639,837	(a)
Motor spirit .. ..	do.	291,658	81,906	(a)
Kerosene .. ..	do.	198,825	261,795	(a)
Lubricating oil ..	do.	12,161	40,605	(a)
Other light oils ..	do.	42,400	226,875	(a)
French Indo-China— Refined petroleum, etc.	Long ton	82	16	(a)

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

Exporting Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES(Cont.)				
Japan—				
Kerosene .. ..	Gallon	170,224	154,630	1,047,291
Other oils .. ..	Long ton	5,793	2,496	5,907
Netherlands East Indies—				
Crude petroleum ..	Long ton	8,806	22,258	(a)
Motor spirit .. ..	do.	787,322	1,100,066	(a)
Kerosene .. ..	do.	326,990	528,813	(a)
Fuel and motor oils ..	do.	1,524,669	1,705,416	(a)
do. (bunkers) ..	do.	188,224	273,023	(a)
Batching oil .. ..	do.	41,638	38,083	(a)
Lubricating oil ..	do.	39,031	37,501	(a)
Paraffin wax .. ..	do.	47,164	54,182	(a)
Asphalt .. ..	do.	899	83	(a)
Turpene .. ..	do.	8,060	6,892	(a)
Greases .. ..	do.	532	621	(a)
Persia (including re-exports) (d)—				
Crude petroleum ..	Long ton	1,500,325	1,590,026	1,637,840
Kerosene .. ..	do.	218,129	1,664,120	904,050
Motor spirit .. ..	do.	362,683	785,980	1,637,840
Fuel and lubricating oils	do.	1,820,269	1,050,450	1,491,220

(a) Information not available.

(d) Years ended March 21.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE</b>				
<b>United Kingdom—</b>				
Crude petroleum ..	Gallon	497,886,623	487,629,601	460,967,789
Motor spirit, etc ..	do.	715,337,240	754,051,316	928,066,412
Kerosene .. ..	do.	184,923,099	242,271,870	231,133,943
Fuel oil .. ..	do.	448,738,927	402,547,913	485,339,973
Gas oil .. ..	do.	115,301,876	110,973,406	128,160,610
Lubricating oil ..	do.	103,504,310	95,351,480	98,972,441
Other petroleum oils	do.	127,193	586,495	224,124
Mineral jelly .. ..	Long ton	2,918	3,086	3,173
Paraffin wax .. ..	do.	67,372	58,013	56,173
Ozokerite .. ..	do.	1,057	1,169	806
Asphalt and bitumen..	do.	181,955	192,023	180,752
Oil shale .. ..	do.	—	1	—
<b>Irish Free State—</b>				
Motor spirit .. ..	Gallon	25,150,662	26,058,455	32,244,701
Kerosene .. ..	do.	14,417,284	11,725,949	14,661,680
Fuel oil and gas oil ..	do.	5,263,507	5,978,588	4,673,004
Lubricating oil .. ..	do.	2,314,198	2,557,584	2,390,641
Paraffin wax .. ..	Long ton	4,739	4,972	3,763
Asphalt and bitumen..	do.	19,069	15,635	19,374
<b>Malta—</b>				
Motor spirit .. ..	Gallon	1,434,753	519,785	2,386,455
Petroleum .. ..	do.	3,862,040	3,955,878	4,438,565
Fuel oil (b) .. ..	Long ton	11,852	2,223	623
<b>Anglo-Egyptian Sudan—</b>				
Petroleum .. ..	Gallon	1,467,744	1,065,040	903,344
do. (additional) ..	Long ton	5	1,286	3,723
Motor spirit .. ..	Gallon	1,492,824	825,504	659,424
do. (additional) ..	Long ton	29	2,848	6,050
Fuel oil .. ..	do.	9,412	10,198	13,152
Lubricating oil, etc. ..	do.	1,497	2,197	2,149
<b>Gambia—</b>				
Motor spirit .. ..	Gallon	144,192	135,043	173,464
Kerosene .. ..	do.	119,104	61,278	67,710
Fuel oil .. ..	do.	40,502	41,866	46,607
Lubricating oil .. ..	do.	24,531	17,053	15,744

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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
Gold Coast—				
Motor spirit .. ..	Gallon	5,752,662	5,898,100	7,276,309
Kerosene .. ..	do.	3,006,972	3,044,023	3,357,208
Fuel oil .. ..	do.	407,594	521,872	649,719
Lubricating oil .. ..	do.	437,065	433,558	486,842
Asphalt tar .. ..	do.	554,038	384,085	942,299
Pitch, etc. .. ..	Long ton	349	1,394	1,056
Kenya and Uganda—				
Motor spirit .. ..	Gallon	4,338,753	7,440,960	6,481,686
Kerosene .. ..	do.	3,404,198	4,100,345	5,184,412
Fuel oil .. ..	do.	7,482,732	4,666,698	3,085,773
Lubricating oil .. ..	do.	658,692	870,317	808,544
Greases .. ..	Long ton	164	163	309
Mauritius—				
Motor spirit .. ..	Gallon	786,683	1,713,343	1,159,582
Kerosene .. ..	do.	727,969	847,069	641,111
Lubricating oils, etc. .. ..	do.	373,996	231,088	136,514
Fuel oil. . . . .	do.	19,468	59,793	(a)
Refined motor grease .. ..	Long ton	44	80	(a)
Natural asphalt, etc. . . .	do.	33	939	(a)
Nigeria—				
Motor spirit .. ..	Gallon	4,136,777	3,838,941	6,140,977
Kerosene .. ..	do.	5,383,812	5,014,154	4,400,990
Fuel oil. . . . .	do.	399,273	272,315	166,998
Lubricating oil .. ..	do.	459,524	581,073	642,322
Asphalt tar .. ..	do.	144,755	178,832	115,951
Pitch, etc. .. ..	Long ton	427	186	375
Nyasaland—				
Motor spirit .. ..	Gallon	401,896	471,364	504,201
Kerosene .. ..	do.	86,857	87,500	84,947
Lubricating oil .. ..	do.	29,202	37,728	37,899
Northern Rhodesia—				
Motor spirit .. ..	Gallon	361,909	750,982	1,264,413
Kerosene .. ..	do.	87,077	127,216	172,114
Lubricating oil .. ..	do.	83,042	130,019	163,908
Seychelles—				
Motor spirit .. ..	Gallon	9,393	14,438	20,156
Kerosene .. ..	do.	25,465	35,909	54,198
Sierra Leone—				
Motor spirit .. ..	Gallon	278,949	293,767	369,962
Kerosene .. ..	do.	534,010	396,319	465,015
Fuel oil. . . . .	do.	64,406	89,156	107,201
Lubricating oil .. ..	do.	44,294	36,034	47,495
Other mineral oils .. ..	do.	6	6	—
Asphalt tar .. ..	do.	32,612	23,291	84,754
Pitch .. ..	Long ton	9	60	98

(a) Information not available.

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

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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
Southern Rhodesia—				
Motor spirit .. ..	Gallon	2,465,416	3,064,896	3,616,229
Kerosene .. ..	do.	611,806	754,806	695,805
Lubricating oil .. ..	do.	360,013	465,010	434,841
Other oils .. ..	do.	81,601	96,853	93,625
Asphalt and bitumen..	Long ton	493	875	(a)
Paraffin wax .. ..	do.	503	473	(a)
South West Africa—				
Motor spirit .. ..	Gallon	1,751,400	1,858,185	1,557,734
Kerosene .. ..	do.	560,367	494,861	506,149
Lubricating oil .. ..	do.	228,042	302,491	217,483
Other oils .. ..	do.	1,073,337	252,959	1,245,256
Tanganyika Territory—				
Motor spirit .. ..	Gallon	1,323,205	1,899,303	1,811,409
Kerosene .. ..	do.	1,372,043	1,526,897	1,528,652
Fuel oil .. ..	do.	397,524	575,783	772,791
Lubricating oil .. ..	do.	221,329	295,215	200,287
Union of South Africa—				
Motor spirit .. ..	Gallon	48,257,134	67,047,674	62,691,275
Kerosene .. ..	do.	14,092,903	19,636,513	16,870,494
Fuel oil .. ..	do.	11,481,430	13,017,810	16,932,431
Lubricating oil .. ..	do.	4,875,925	6,074,588	5,742,859
Other oils .. ..	do.	424,499	873,101	1,366,708
Paraffin wax .. ..	Long ton	9,914	11,596	9,786
Asphalt and bitumen..	do.	17,196	20,129	26,047
Petroleum jelly .. ..	do.	194	184	119
Zanzibar—				
Motor spirit .. ..	Gallon	212,559	168,656	346,026
Kerosene, etc. .. ..	do.	469,352	371,972	765,138
Fuel oil .. ..	do.	113,250	74,282	131,354
Lubricating oil, etc. ..	do.	69,423	13,729	13,562
Canada—				
Crude petroleum .. ..	Gallon	917,317,707	1,129,318,884	1,086,902,106
Motor spirit .. ..	do.	143,653,116	175,151,570	163,446,548
Kerosene, etc. .. ..	do.	3,968,647	4,532,833	4,987,091
Lubricating oils .. ..	do.	15,487,945	17,404,194	16,309,806
Fuel oil (bunkers) .. ..	do.	32,539,383	32,302,642	31,560,548
Other petroleum oils ..	do.	211,832	194,794	308,019
Vaseline, etc. .. ..	£	49,459	51,247	47,382
Grease .. ..	Long ton	2,342	3,130	2,384
Paraffin wax, etc. .. ..	do.	1,180	1,648	1,717
Asphaltum oil, etc. ..	£	29,239	25,169	34,604
Asphalt .. ..	Long ton	42,849	47,991	38,207
Other products .. ..	Gallon	1,860,009	1,828,536	1,667,160



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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
Newfoundland (years ended June 30)—				
Crude petroleum ..	Gallon	132,018	189,278	204,323
Motor spirit .. ..	do.	2,396,391	2,348,805	2,646,118
Kerosene .. ..	do.	1,773,328	1,019,568	1,601,331
Lubricating oil (c) ..	do.	250,646	274,516	302,401
Fuel oil .. ..	do.	—	—	26,615
British Guiana—				
Crude petroleum ..	Gallon	8,932	5,200	666,759
Motor spirit .. ..	do.	717,742	677,824	730,094
Kerosene .. ..	do.	519,240	530,609	490,199
Fuel oil .. ..	do.	398,737	349,484	318,587
Tar and pitch .. ..	Long ton	261	193	177
British West Indies—				
Bahamas—				
Crude petroleum ..	Gallon	1,043,000	571,000	536,000
Motor spirit .. ..	do.	887,000	858,000	860,000
Kerosene .. ..	do.	183,000	341,000	336,000
Barbados—				
Motor spirit .. ..	Gallon	778,423	928,115	837,439
Kerosene .. ..	do.	412,124	501,503	364,404
Lubricating oil ..	£	7,247	5,008	5,132
Residual oil .. ..	Long ton	1,392	6,117	4,582
Bermuda—				
Motor spirit .. ..	Gallon	49,958	65,793	333,332
Kerosene .. ..	do.	475,441	424,717	505,734
Fuel oil .. ..	Long ton	7,426	2,359	2,197
Grenada—				
Motor spirit .. ..	Gallon	118,563	127,980	132,737
Kerosene .. ..	do.	111,698	110,279	104,995
Fuel oil .. ..	do.	12,216	12,081	20,292
Lubricating oil ..	do.	9,798	6,295	8,783
Road oil .. ..	do.	36,797	31,144	101,126
Jamaica—				
Motor spirit .. ..	Gallon	3,671,358	5,494,605	4,471,522
Kerosene .. ..	do.	1,323,188	1,516,810	1,408,251
Gas oil and fuel oil ..	do.	187,708	13,771,592	628,424
Lubricating oil ..	do.	224,251	218,009	181,827

(a) Information not available.

(c) Excluding a small amount imported in bottles.

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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
British West Indies				
(Cont.)—				
Leeward Islands (d)—				
Motor spirit.. ..	Gallon	96,871	213,467	260,766
Kerosene .. ..	do.	179,421	212,265	172,576
Fuel oil .. ..	do.	86,058	40,995	81,545
Lubricating oil ..	do.	18,047	21,574	38,858
St. Lucia—				
Motor spirit.. ..	Gallon	36,781	38,467	38,816
Kerosene .. ..	do.	61,974	54,294	48,866
Fuel oil .. ..	do.	8,763	11,400	15,243
Lubricating oil ..	do.	4,979	3,074	3,548
St. Vincent—				
Motor spirit.. ..	Gallon	53,074	64,400	75,724
Kerosene .. ..	do.	52,820	53,944	52,493
Fuel oil .. ..	do.	23,455	24,782	15,385
Lubricating oil ..	do.	3,887	5,562	1,851
Asphalt tar .. ..	do.	872	652	554
Pitch.. ..	Long ton	1	2	—
Trinidad and Tobago—				
Crude petroleum ..	Gallon	—	—	6,331,496
Motor spirit.. ..	do.	(e) 2,204	(e) 2,332	8,428
Refined petroleum, etc. .. ..	do.	154,606	154,009	94,617
Lubricating oil ..	do.	186,708	221,554	297,700
Fuel oil .. ..	do.	245,627	924,207	46
British Honduras—				
Motor spirit .. ..	Gallon	768,984	626,562	482,575
Kerosene .. ..	do.	360,785	351,657	248,228
Fuel oil.. ..	do.	87,322	141,180	232,925
Lubricating oil ..	do.	61,620	47,597	(a)
Aden (total imports)—				
Motor spirit .. ..	Gallon	264,902	340,248	359,842
Kerosene .. ..	do.	685,404	535,864	426,416
Fuel oil .. ..	Long ton	329,624	390,691	404,428
Lubricating oil ..	Gallon	60,825	63,193	82,200
Other oils .. ..	do.	3,483	508	92
British Borneo—				
Brunei—				
Kerosene .. ..	Gallon	90,935	91,736	125,361
Fuel oil .. ..	do.	(a)	(a)	107,583
Sarawak—				
Motor spirit.. ..	Gallon	207,324	226,253	205,777
Kerosene .. ..	do.	807,992	963,848	741,880
Fuel oil .. ..	do.	43,329	20,871	57,859
Lubricating oil ..	do.	168,770	182,430	116,397
State of North Borneo—				
Motor spirit.. ..	Gallon	147,108	150,097	179,640
Kerosene .. ..	do.	376,968	422,680	360,120

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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
British India (total imports)—				
Motor spirit .. ..	Gallon	115,058	330,580	9,773,623
Kerosene .. ..	do.	104,439,966	103,300,553	108,489,396
Fuel oil .. ..	do.	100,918,457	114,966,030	107,582,265
White oil .. ..	do.	(a)	2,647,916	1,103,659
Lubricating oil .. ..	do.	26,281,673	27,923,242	25,121,441
Other oils .. ..	do.	5,480,398	3,261,882	1,512,192
Paraffin wax .. ..	Long ton	1,161	961	1,645
Asphalt .. ..	do.	16,113	25,187	32,927
British Malaya (total imports)—				
Motor spirit .. ..	Long ton	290,877	280,485	546,774
Kerosene .. ..	do.	147,074	153,819	158,409
Fuel oil .. ..	do.	524,858	546,559	633,745
Lubricating oil .. ..	Gallon	5,695,974	6,090,910	4,086,394
Other oils .. ..	Long ton	11	30	325
Paraffin wax .. ..	do.	1,131	1,347	1,096
Asphalt and bitumen..	do.	20,058	28,865	17,223
Ceylon—				
Crude petroleum (total imports) (b) .. ..				
Motor spirit .. ..	Gallon	52,930,008	53,364,579	57,458,471
Kerosene .. ..	do.	8,349,092	10,501,262	11,446,080
Lubricating oil .. ..	do.	8,479,466	8,515,604	8,710,658
Asphalt .. ..	do.	985,273	894,134	917,014
Asphalt .. ..	Long ton	11,129	16,251	15,306
Cyprus—				
Crude petroleum .. ..	Gallon	706,344	842,063	709,693
Motor spirit, etc. .. ..	do.	845,276	1,085,101	1,023,522
Kerosene, etc. .. ..	do.	844,830	835,172	938,562
Lubricating oil .. ..	Long ton	451	609	487
Paraffin wax .. ..	do.	39	85	52
Palestine (total imports)—				
Crude petroleum, etc. ..	Long ton	5,990	7,309	24,970
Motor spirit .. ..	Gallon	2,478,596	52,184	88,175
do. (additional)	£	—	203,195	227,802
Kerosene .. ..	Gallon	(f) 28,445	6,322,379	7,580,189
do. (additional)	£	—	62,502	43,133
Lubricating oil .. ..	Long ton	1,289	1,690	1,570
Paraffin wax .. ..	do.	66	50	104
Asphalt .. ..	do.	736	866	1,530

(a) Information not available.

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

(d) Including inter-presidency trade.

(e) Excess of re-exports.

(f) Long tons.

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

Importing Country and Description	Unit	1928	1929	1930
<b>BRITISH EMPIRE (Cont.)</b>				
<b>Australia—</b>				
Crude petroleum ..	Gallon	95,612,561	109,212,703	122,809,634
Motor spirit .. ..	do.	192,387,462	221,619,597	205,405,016
Kerosene .. ..	do.	39,726,600	39,988,852	38,891,508
Lubricating oil ..	do.	13,106,493	17,091,927	11,019,417
Residual and solar oils	do.	1,062,157	1,052,745	1,529,427
Petroleum jelly ..	Long ton	464	618	434
Greases .. ..	do.	1,994	2,792	1,163
Paraffin wax, etc. ..	do.	2,606	3,112	2,239
Mastic asphalt ..	do.	790	1,002	268
<b>Fiji Islands—</b>				
Motor spirit .. ..	Gallon	928,311	1,074,035	961,156
Kerosene .. ..	do.	395,350	387,875	372,145
Lubricating oil ..	do.	81,869	81,725	86,392
<b>New Zealand—</b>				
Crude petroleum, fuel oil, etc. .. ..	Gallon	37,760,729	28,349,403	43,833,938
Motor spirit .. ..	do.	54,462,252	62,403,206	68,294,208
Kerosene .. ..	do.	5,193,635	7,129,908	6,230,161
Lubricating oil ..	do.	2,906,127	3,249,642	3,371,786
Other refined oils ..	do.	263,801	152,770	234,554
Paraffin wax .. ..	Long ton	1,616	1,626	1,415
Asphalt .. ..	do.	29,440	25,920	21,145
<b>Solomon Islands—</b>				
Motor spirit .. ..	Gallon	99,489	66,335	66,856
Kerosene .. ..	do.	77,638	104,621	73,571
Lubricating oil ..	do.	10,206	17,469	11,494
<b>Western Samoa—</b>				
Motor spirit .. ..	£	7,387	10,722	(a)
Kerosene .. ..	£	2,890	6,379	(a)
Lubricating oil ..	£	2,215	1,687	(a)
Fuel oil .. ..	£	(a)	227	(a)

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES</b>				
<b>Austria—</b>				
Crude petroleum ..	Long ton	46,319	50,383	110,353
Motor spirit .. ..	do.	85,934	102,306	108,278
Kerosene .. ..	do.	28,514	30,745	27,357
Gas oil .. ..	do.	27,026	31,426	19,742
Vaseline .. ..	do.	149	161	145
Paraffin wax .. ..	do.	3,363	3,367	2,969
Asphalt products ..	do.	13,488	11,835	2,286
Petroleum coke ..	do.	2,993	3,263	2,541
Ozokerite and ceresin	do.	284	204	207
<b>Belgium-Luxemburg E.U.</b>				
Crude petroleum ..	Long ton	2,607	1,175	477
Refined petroleum ..	do.	162,708	189,847	216,890
Kerosene .. ..	do.	74,846	69,640	75,145
Lubricating oil ..	do.	71,330	70,798	98,899
Fuel oil, etc. .. ..	do.	78,707	88,973	114,820
Other heavy oils ..	do.	749	1,952	2,147
Vaseline .. ..	do.	695	784	572
Paraffin wax .. ..	do.	6,749	6,750	5,153
Ozokerite and ceresin..	do.	320	313	333
Asphalt, bitumen, etc.	do.	15,482	16,740	15,510
Residual asphalt ..	do.	3,942	8,461	8,866
<b>Bulgaria—</b>				
Motor spirit .. ..	Long ton	6,353	11,246	(a)
Kerosene .. ..	do.	26,428	32,477	(a)
Gas oil .. ..	do.	20,020	24,393	(a)
Fuel oil .. ..	do.	7,930	7,190	(a)
Lubricating oil, etc. ..	do.	6,419	7,919	(a)
Paraffin wax, ceresin, etc.	do.	258	489	(a)
Tar .. ..	do.	236	258	(a)
Vaseline, etc. .. ..	do.	30	44	(a)
Asphalt and bitumen..	do.	343	415	(a)
<b>Czechoslovakia—</b>				
Crude oils .. ..	Long ton	129,744	153,395	144,026
Refined light oils ..	do.	160,963	173,179	224,575
Residual oils .. ..	do.	8	24	31
Refined heavy oils ..	do.	31,979	31,072	27,961
Paraffin wax, etc. ..	do.	982	1,467	850
Vaseline .. ..	do.	211	190	198
Asphalt products ..	do.	8,678	9,862	8,860

(a) Information not available.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Denmark—</b>				
Motor spirit .. ..	Long ton	150,230	171,640	203,868
Kerosene .. ..	do.	81,574	87,188	81,842
Fuel oil .. ..	do.	144,001	137,633	193,646
Crude residual oil .. ..	do.	4,354	4,699	5,450
Lubricating oil .. ..	do.	21,294	21,634	23,201
Vaseline .. ..	do.	100	111	(a)
Ozokerite .. ..	do.	70	70	65
Paraffin wax .. ..	do.	573	717	729
Asphalt rock .. ..	do.	7,440	9,907	9,315
<b>Estonia—</b>				
Crude petroleum .. ..	Long ton	2,563	2,830	2,992
Motor spirit .. ..	do.	4,952	5,713	8,956
Kerosene .. ..	do.	14,316	15,851	17,205
Lubricating oil .. ..	do.	2,234	2,444	2,318
Vaseline .. ..	do.	15	4	6
Paraffin wax, etc. .. ..	do.	234	228	240
Asphalt and tar .. ..	do.	131	324	268
<b>Finland—</b>				
Crude petroleum .. ..	Long ton	12,226	12,536	16,348
Kerosene .. ..	do.	43,121	35,536	37,118
Motor spirit .. ..	do.	54,245	66,665	92,251
Lubricating oil .. ..	do.	12,657	11,684	9,207
Vaseline .. ..	do.	334	403	400
Paraffin wax, etc. .. ..	do.	820	884	631
Asphalt and tar .. ..	do.	8,978	9,700	7,796
<b>France—</b>				
Crude petroleum .. ..	Long ton	13,840	23,021	444,765
Kerosene .. ..	Gallon	61,912,272	64,368,963	51,739,518
Motor spirit .. ..	do.	431,993,166	509,133,455	569,361,197
Lubricating oils .. ..	Long ton	264,042	275,815	271,522
Residual oils, etc. .. ..	do.	652,840	800,744	712,179
Paraffin wax .. ..	do.	10,281	7,090	6,537
Ozokerite .. ..	do.	528	617	528
Bitumen and asphalt.. ..	do.	17,503	23,718	22,085
Vaseline .. ..	do.	25	25	40
<b>Germany—</b>				
Crude petroleum .. ..	Long ton	51,840	88,595	328,223
Motor spirit .. ..	do.	815,099	1,048,980	1,412,011
Kerosene .. ..	do.	128,576	146,460	204,307
Gas oil .. ..	do.	305,056	359,040	454,855
Lubricating oil .. ..	do.	517,227	647,449	362,018
Paraffin wax .. ..	do.	17,691	14,342	12,282
Ozokerite, etc. . . . .	do.	1,967	1,737	1,645
Asphalt .. ..	do.	57,616	53,946	25,406

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>Greece—</b>				
Motor spirit .. ..	Long ton	34,916	45,299	46,800
Kerosene .. ..	do.	23,993	28,860	24,748
Fuel oils .. ..	do.	58,577	63,347	78,395
Other oils and greases	do.	7,107	8,200	8,236
Paraffin wax .. ..	do.	3	9	3
Vaseline .. ..	do.	59	47	65
Asphalt and bitumen ..	do.	6,234	4,763	5,571
<b>Hungary—</b>				
Crude petroleum .. ..	Long ton	119,240	134,078	212,672
Motor spirit .. ..	do.	27,687	30,561	9,835
Kerosene .. ..	do.	22,155	20,834	9,405
Gas oil .. ..	do.	9,217	9,184	4,445
Lubricating oil .. ..	do.	10,333	7,559	6,794
Paraffin wax, etc. ..	do.	1,178	1,076	1,015
Vaseline .. ..	do.	209	178	167
Asphalt, bitumen and tar .. ..	do.	8,027	11,004	12,091
Petroleum coke .. ..		(a)	200	397
<b>Italy—</b>				
Crude petroleum .. ..	Long ton	49,683	58,851	94,916
Motor spirit .. ..	do.	317,060	380,669	383,615
Kerosene .. ..	do.	141,834	159,077	154,064
Lubricating oil .. ..	do.	80,512	79,663	83,605
Other oils and residues	do.	416,003	583,245	696,984
Vaseline .. ..	do.	397	385	324
Paraffin wax .. ..	do.	29,107	23,781	26,664
Ceresin .. ..	do.	100	101	105
Asphalt and bitumen ..	do.	23,238	51,875	78,272
<b>Jugoslavia—</b>				
Crude petroleum .. ..	Long ton	81,410	101,456	145,328
Motor spirit .. ..	do.	7,490	4,638	4,511
Kerosene .. ..	do.	24,161	20,457	23,674
Gas oil, etc. .. ..	do.	3,646	1,563	1,594
Lubricating oil, etc. ..	do.	6,597	6,760	5,795
Paraffin wax .. ..	do.	1,965	2,372	2,611
Ozokerite and ceresin ..	do.	111	114	78
Asphalt and bitumen ..	do.	7,261	5,109	7,235
<b>Latvia—</b>				
Crude petroleum .. ..	Long ton	12,524	13,366	22,091
Motor spirit .. ..	do.	5,661	8,253	10,774
Kerosene .. ..	do.	18,384	16,564	16,805

(a) Information not available.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Latvia (Cont.)—</b>				
Fuel oil .. ..	Long ton	(a)	508	698
Lubricating oil .. ..	do.	699	1,838	2,496
Paraffin wax .. ..	do.	290	343	302
Ozokerite and ceresin	do.	16	20	17
Asphalt .. ..	do.	59	84	158
<b>Lithuania—</b>				
Crude petroleum .. ..	Long ton	(a)	(a)	10,632
Motor spirit .. ..	do.	11,933	12,813	6,315
Kerosene .. ..	do.	16,326	15,921	18,527
Lubricating oil.. ..	do.	2,581	2,284	2,793
Paraffin wax, etc. .. ..	do.	271	348	492
<b>Netherlands—</b>				
Crude petroleum .. ..	Long ton	202,586	234,395	223,289
Motor spirit .. ..	do.	195,157	223,648	258,728
Kerosene .. ..	do.	184,613	191,775	176,130
Gas oil .. ..	do.	98,310	126,156	154,335
Fuel oil .. ..	do.	145,589	130,134	110,331
Lubricating oil .. ..	do.	51,501	55,220	52,727
Greases .. ..	do.	1,813	1,927	2,093
Vaseline .. ..	do.	628	876	860
Paraffin wax .. ..	do.	8,210	7,921	6,679
Ozokerite and ceresin	do.	189	167	208
Asphalt .. ..	do.	10,655	5,999	8,203
Natural asphalt .. ..	do.	5,017	10,144	14,195
<b>Norway—</b>				
Crude petroleum .. ..	Long ton	27,340	23,130	31,740
Motor spirit .. ..	do.	60,376	76,172	85,264
Kerosene .. ..	do.	45,875	37,845	35,033
Fuel oil.. ..	do.	84,730	125,571	114,255
Vaseline and greases .. ..	do.	409	616	633
Asphalt, bitumen, etc..	do.	5,120	6,327	8,629
<b>Poland—</b>				
Kerosene .. ..	Long ton	8	626	320
Fuel oil .. ..	do.	371	535	1,350
Lubricating oils .. ..	do.	3,349	3,763	2,679
Greases .. ..	do.	193	288	59
Vaseline .. ..	do.	248	225	229
Paraffin wax, etc. .. ..	do.	215	141	318
Asphalt rock .. ..	do.	3,831	1,996	979
Asphalt and tar .. ..	do.	4,819	4,444	4,074



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

Importing Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES (Cont.)				
Portugal—				
Motor spirit .. ..	Long ton	38,440	39,392	45,709
Kerosene .. ..	do.	38,033	34,692	40,998
Fuel oil .. ..	do.	11,390	(a)	(a)
Lubricating oils .. ..	do.	3,786	(a)	(a)
Vaseline .. ..	do.	133	75	73
Paraffin wax .. ..	do.	1,138	1,115	900
Rumania—				
Residual oils .. ..	Long ton	(a)	(a)	3,312
Vaseline .. ..	do.	(a)	(a)	82
Paraffin wax .. ..	do.	(a)	(a)	7
Ceresin and ozokerite .. ..	do.	(a)	(a)	128
Greases .. ..	do.	(a)	(a)	165
Asphalt and bitumen .. ..	do.	(a)	(a)	87
Russia (years ended Sept. 30)—				
Crude petroleum .. ..	Long ton	521	36	11,165
Vaseline .. ..	do.	525	378	211
Paraffin wax .. ..	do.	172	307	91
Ozokerite and ceresin .. ..	do.	223	141	155
Asphalt and tar .. ..	do.	610	317	780
Spain (total imports)—				
Crude petroleum .. ..	Long ton	32,155	27,012	33,930
Motor spirit .. ..	do.	223,234	276,381	341,304
Kerosene .. ..	do.	22,439	16,923	19,018
Fuel oil .. ..	do.	97,650	108,597	177,201
Lubricating oils .. ..	do.	28,589	24,529	28,581
Residual pitch .. ..	do.	39,159	52,856	36,192
Vaseline and its oils .. ..	do.	818	917	1,179
Paraffin wax .. ..	do.	9,187	5,542	8,574
Sweden—				
Crude and residual oils .. ..	Long ton	95,357	116,118	38,721
Motor spirit .. ..	Gallon	68,674,994	75,149,674	90,618,650
Kerosene .. ..	Long ton	75,037	67,777	77,811
Fuel oil, etc. .. ..	do.	(a)	(a)	114,207
Lubricating oil .. ..	do.	37,203	39,343	41,455
Vaseline .. ..	do.	198	255	268
Other refined oils .. ..	do.	2,982	3,603	(a)
Paraffin wax .. ..	do.	4,094	4,199	4,391
Ozokerite and ceresin .. ..	do.	153	148	163
Asphalt .. ..	do.	9,377	11,975	15,168
Pitch .. ..	do.	13,672	16,319	13,911

(a) Information not available.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Switzerland—</b>				
Motor spirit .. ..	Long ton	116,446	137,809	156,378
Kerosene .. ..	do.	24,101	26,368	24,109
Petroleum distillates, etc. .. ..	do.	1,419	1,686	1,781
Fuel oil .. ..	do.	55,609	70,050	77,896
Lubricating oil and grease .. ..	do.	19,894	20,586	21,431
Vaseline .. ..	do.	289	303	281
Paraffin wax and ceresin	do.	1,410	1,353	1,387
Asphalt and bitumen..	do.	1,524	1,644	1,736
<b>Algeria--</b>				
Motor spirit .. ..	Gallon	22,421,323	30,253,868	34,539,600
Kerosene .. ..	do.	9,161,420	11,868,937	12,165,580
Fuel oil and gas oil ..	Long ton	17,084	32,464	19,820
Lubricating oil .. ..	do.	12,962	13,612	13,485
Paraffin wax, etc. ..	do.	144	147	115
Vaseline .. ..	do.	31	25	29
Residual asphalt ..	do.	6,728	(a)	33,568
Asphalt and bitumen	do.	3,371	2,001	1,299
<b>Angola—</b>				
Petroleum .. ..	Long ton	1,132	(a)	(a)
Motor spirit .. ..	do.	4,590	(a)	(a)
Kerosene, etc... ..	do.	800	(a)	(a)
Lubricating oil .. ..	do.		(a)	(a)
Tar and pitch .. ..	do.	79	(a)	(a)
Asphalt .. ..	do.	5	(a)	(a)
<b>Belgian Congo—</b>				
Motor spirit .. ..	Long ton	10,859	17,634	20,938
Kerosene .. ..	do.	4,104	2,799	1,789
Fuel oil, etc. .. ..	do.	17,292	18,144	10,283
Lubricating oils and greases .. ..	do.	3,483	3,646	3,612
<b>Cameroon (French)—</b>				
Motor spirit .. ..	Long ton	2,176	2,515	2,997
Kerosene .. ..	do.	1,775	1,682	1,806
Heavy oils .. ..	do.	451	642	331
<b>Dahomey—</b>				
Motor spirit .. ..	Long ton	1,066	1,181	1,109
Kerosene .. ..	do.	3,593	2,846	3,090
Heavy oils .. ..	do.	235	310	353

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Egypt—</b>				
Motor spirit .. ..	Long ton	62,715	73,981	73,000
do. (additional) (g) ..	Gallon	40,240	81,408	(a)
Kerosene .. ..	Long ton	267,690	294,731	315,000
do. (additional) (g) ..	Gallon	19,160	111,104	(a)
Fuel oil (mazout) ..	Long ton	107,053	120,190	125,981
Solar oil .. ..	do.	3,576	2,154	6,428
Lubricating oil, etc. ..	do.	19,156	19,977	17,354
Vaseline .. ..	do.	75	42	119
Paraffin wax .. ..	do.	183	220	272
Asphalt and bitumen ..	do.	8,254	12,970	5,760
<b>French Equatorial Africa—</b>				
Motor spirit .. ..	Long ton	5,263	3,905	6,937
Heavy oils .. ..	do.	980	908	1,772
<b>French Guinea—</b>				
Motor spirit .. ..	Long ton	453	436	748
Kerosene .. ..	do.	658	571	476
Heavy oils .. ..	do.	205	127	248
<b>French Sudan—</b>				
Motor spirit .. ..	Long ton	1,267	1,327	755
Kerosene .. ..	do.	164	162	83
Heavy oils .. ..	do.	234	245	151
<b>Ivory Coast—</b>				
Motor spirit .. ..	Long ton	3,274	4,025	5,094
Kerosene .. ..	do.	2,080	1,750	1,531
Heavy oils .. ..	do.	869	1,066	973
<b>Liberia—</b>				
Motor spirit .. ..	Long ton	233,978	185,914	(a)
Kerosene .. ..	do.	182,100	163,851	(a)
<b>Mozambique—</b>				
Motor spirit .. ..	Long ton	2,386	4,312	(a)
Kerosene .. ..	do.	1,332	2,335	(a)
Fuel oil .. ..	do.	157	335	(a)
Lubricating oil .. ..	do.	796	1,197	(a)
Asphalt and bitumen ..	do.	137	659	(a)
<b>Portuguese Guinea—</b>				
Motor spirit .. ..	Long ton	410	542	648
Kerosene .. ..	do.	232	220	177

(a) Information not available.

(g) Total imports; the following quantities (in gallons) were re-exported.

	1928	1929	1930
Motor spirit ..	4,071,640	8,451,832	(a)
Kerosene ..	4,243,760	5,358,432	(a)

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Senegal—</b>				
Motor spirit ( <i>h</i> ) ..	Long ton	6,241	7,045	11,056
Kerosene .. ..	do.	1,807	1,626	1,743
Heavy oils .. ..	do.	2,570	3,102	2,604
Fuel oil ( <i>h</i> ) .. ..	do.	26,176	92,892	107,606
Bitumen .. ..	do.	68	213	544
<b>Morocco—</b>				
<b>French zone—</b>				
Motor spirit .. ..	Long ton	40,830	54,459	61,857
Kerosene .. ..	do.	15,451	20,383	19,190
Fuel oil .. ..	do.	4,416	7,737	8,073
Lubricating oil ..	do.	5,317	7,781	7,650
Paraffin wax .. ..	do.	727	683	821
<b>Tangier—</b>				
Motor spirit .. ..	Long ton	1,436	1,596	2,862
Kerosene .. ..	do.	411	453	819
Fuel oil .. ..	do.	575	519	241
Lubricating oil ..	do.	247	215	615
<b>Togoland—</b>				
Motor spirit .. ..	Long ton	1,202	1,093	1,129
Kerosene .. ..	do.	3,030	1,660	1,367
Heavy oils .. ..	do.	224	230	(a)
<b>Tunis—</b>				
Motor spirit .. ..	Gallon	6,370,112	8,837,609	10,360,155
Kerosene .. ..	do.	5,814,184	7,763,477	7,699,663
Fuel oil .. ..	Long ton	12,535	16,073	21,893
Vaseline .. ..	do.	12	11	8
Lubricating oils ..	do.	5,060	5,665	5,533
Paraffin wax .. ..	do.	82	89	43
Bitumen .. ..	do.	710	945	893
<b>Madagascar (total im- ports)—</b>				
Motor spirit, etc. ..	Long ton	2,589	3,795	4,507
Kerosene .. ..	do.	2,110	3,498	2,795
Lubricating oil ..	do.	1,122	889	1,796
Fuel oil .. ..	do.	234	32	(a)
<b>Réunion—</b>				
Motor spirit .. ..	Long ton	946	1,251	1,586
Kerosene .. ..	do.	599	546	(a)
Heavy oils, etc. ..	do.	184	280	1,279
<b>Costa Rica (total imports)—</b>				
Crude petroleum ..	Long ton	24,430	20,966	(a)
Motor spirit .. ..	do.	4,047	5,867	(a)
Paraffin wax .. ..	do.	1,117	1,197	(a)
Vaseline .. ..	do.	14	13	(a)
Asphalt and bitumen ..	do.	1,433	1,370	(a)

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

Importing Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES(Cont.)				
Cuba (j)—				
Crude petroleum ..	Gallon	(i) 4,810,660	47,101,104	(a)
Motor spirit .. ..	do.	41,319,790	41,324,289	(a)
Fuel oil .. ..	do.	170,911,596	174,199,298	(a)
Gas oil .. ..	do.	(a)	2,789,879	(a)
Lubricating oil ..	Long ton	13,862	15,161	(a)
Kerosene .. ..	do.	1,146	906	(a)
Vaseline .. ..	do.	239	134	(a)
Asphalt rock .. ..	do.	453	2,658	(a)
Dominican Republic (j)—				
Motor spirit .. ..	Gallon	3,952,878	3,837,858	3,156,196
Kerosene .. ..	do.	1,201,701	1,266,861	973,159
Fuel oil .. ..	Long ton	23,577	43,538	21,045
Lubricating oil ..	do.	2,277	1,495	1,337
Guadeloupe—				
Motor Spirit .. ..	Long ton	937	(a)	(a)
Kerosene .. ..	do.	870	(a)	(a)
Guatemala—				
Crude petroleum ..	Long ton	48,313	64,204	(a)
Motor spirit .. ..	do.	6,392	10,536	(a)
Kerosene .. ..	do.	2,734	3,050	(a)
Lubricating oil ..	do.	465	699	(a)
Paraffin wax .. ..	do.	1,353	787	(a)
Greases .. ..	do.	72	59	(a)
Asphalt and bitumen..	do.	43	491	(a)
Martinique—				
Motor spirit .. ..	Long ton	1,675	2,411	(a)
Kerosene .. ..	do.	980	1,091	(a)
Lubricating oil ..	do.	346	355	(a)
Fuel oil .. ..	do.	378	551	(a)
Mexico—				
Crude petroleum ..	Long ton	38,928	(a)	107,878
Motor spirit .. ..	do.	43,894	59,033	64,985
Kerosene .. ..	do.	5,534	6,615	8,872
Fuel oil and gas oil ..	do.	166,440	132,643	184,650
Paraffin wax .. ..	do.	7,706	8,349	5,176
Lubricating oil, etc. ..	do.	13,250	16,089	11,000
Vaseline .. ..	do.	183	182	170
Netherlands West Indies—				
Crude petroleum ..	Long ton	9,711,078	5,177,300	(a)
Motor spirit .. ..	Gallon	211,120	9,850	(a)
Kerosene .. ..	do.	108,553	(a)	(a)
Fuel oil and gas oil ..	Long ton	258,923	357,000	(a)
Lubricating oil ..	Gallon	6,669	(a)	(a)

(a) Information not available.

(b) Includes bunkers, see exports.

(i) In addition to above, 61,053 long tons of crude oil were imported.

(j) Total imports.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Nicaragua (j)—</b>				
Crude petroleum ..	Long ton	16,881	13,819	(a)
Motor spirit .. ..	Gallon	885,372	1,062,693	(a)
Kerosene .. ..	do.	736,375	789,362	(a)
Lubricating oil ..	Long ton	574	573	(a)
<b>Panama—</b>				
Motor spirit .. ..	Long ton	674	1,097	(a)
Kerosene .. ..	do.	2,627	2,732	(a)
Fuel oil .. ..	do.	8,896	(a)	(a)
Lubricating oil ..	do.	964	1,066	(a)
Mineral grease ..	do.	28	57	(a)
Asphalt .. ..	do.	112	138	(a)
Tar and pitch ..	do.	68	46	(a)
Paraffin wax .. ..	do.	33	39	(a)
<b>Salvador—</b>				
Crude petroleum ..	Long ton	19,130	27,800	(a)
Motor spirit .. ..	do.	6,464	6,427	(a)
Kerosene .. ..	do.	2,079	2,633	(a)
Paraffin wax .. ..	do.	503	570	(a)
Asphalt .. ..	do.	1,018	605	(a)
<b>United States—</b>				
Crude petroleum ..	Gallon	2,791,798,695	2,762,639,705	2,174,529,665
Motor spirit, etc. (j) ..	do.	146,919,780	309,200,570	592,438,000
Kerosene (j) .. ..	do.	7,061,075	7,280,280	7,003,010
Topped oils, including fuel oil (j) .. ..	do.	254,385,145	719,092,430	912,813,405
Tops and other un- finished distillates (j)	do.	698,670	182,105	5,214,755
Lubricating oil (j) ..	do.	442,610	1,377,390	865,480
Paraffin wax, etc. ..	Long ton	11,045	18,241	13,522
Mineral wax .. ..	do.	4,338	3,747	4,471
Asphalt and bitumen ..	do.	106,775	108,053	47,498
<b>Argentina—</b>				
Crude petroleum ..	Long ton	312,453	480,276	539,240
Motor spirit .. ..	Gallon	87,733,700	93,585,600	76,715,360
Kerosene .. ..	Long ton	506	210	212
do. (additional) ..	Gallon	13,413,400	16,262,950	15,858,890
Fuel oil and gas oil ..	Long ton	794,000	786,760	856,323
Lubricating oil ..	do.	44,185	49,427	46,813
Vaseline .. ..	do.	376	421	252
Grease .. ..	do.	1,882	2,779	3,349
Paraffin wax .. ..	do.	8,363	7,677	7,845
Asphalt rock .. ..	do.	11,329	2,345	16,550
Trinidad asphalt ..	do.	26,013	21,476	14,399
Asphalt for roofing ..	do.	1,884	1,613	1,891

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Bolivia—</b>				
Motor spirit .. ..	Long ton	5,238	6,153	(a)
Kerosene, etc. .. ..	do.	1,184	1,697	(a)
Fuel oil .. ..	do.	22,491	29,483	(a)
Lubricating oil .. ..	do.	2,655	2,394	(a)
Paraffin wax, etc. .. ..	do.	1,277	2,248	(a)
Asphalt and bitumen .. ..	do.	424	181	(a)
<b>Brazil (total imports)—</b>				
Motor spirit .. ..	Long ton	250,327	288,988	275,081
Kerosene .. ..	do.	102,059	115,404	89,037
Fuel oil .. ..	do.	333,591	331,435	368,543
Lubricating oil .. ..	do.	37,810	44,647	24,173
Vaseline .. ..	do.	292	251	152
Greases .. ..	do.	1,659	1,929	916
Paraffin wax .. ..	do.	1,448	1,201	889
Asphalt .. ..	do.	23,993	19,501	8,543
<b>Chile—</b>				
Crude petroleum .. ..	Long ton	755,240	976,231	851,305
Motor spirit .. ..	do.	50,433	(k) 8,436	(k) 8,549
Kerosene .. ..	do.	17,474	(k) 1,212	(k) 810
Lubricating oil .. ..	do.	12,606	14,333	15,326
Vaseline .. ..	do.	70	99	95
Greases .. ..	do.	1,232	1,249	1,241
Ozokerite .. ..	do.	30	12	24
Crude asphalt .. ..	do.	1,724	2,103	2,013
Paraffin wax .. ..	do.	12,324	6,985	6,793
Tar and pitch .. ..	do.	1,302	8,878	8,664
<b>Colombia—</b>				
Crude petroleum .. ..	Long ton	60	5,045	(a)
Refined petroleum .. ..	do.	665	900	(a)
Motor spirit .. ..	do.	12,302	27,497	(a)
Fuel oil .. ..	do.	23,295	13,824	(a)
Lubricating oil .. ..	do.	6,533	4,427	(a)
Vaseline .. ..	do.	110	85	(a)
Paraffin wax .. ..	do.	5,900	6,713	(a)
Asphalt, etc. .. ..	do.	2,003	2,421	(a)
<b>French Guiana—</b>				
Motor spirit .. ..	Long ton	190	100	(a)
Kerosene .. ..	do.	292	402	(a)
Lubricating oil .. ..	do.	47	89	(a)
<b>Peru—</b>				
Crude petroleum .. ..	Long ton	4,569	2	(a)
Motor spirit, etc. .. ..	do.	26	407	(a)
Lubricating oil .. ..	do.	2,842	3,001	(a)
Vaseline .. ..	do.	42	41	(a)
Paraffin wax .. ..	do.	2,849	4,306	(a)
Asphalt and bitumen .. ..	do.	1,602	2,638	(a)
Greases .. ..	do.	435	450	(a)

(a) Information not available.

(j) Total imports.

(k) In addition 4,765,077 and 4,061,350 gallons of kerosene and 25,459,847 and 28,254,707 gallons of motor spirit were imported during 1929 and 1930 respectively.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Uruguay—</b>				
Crude petroleum ..	Gallon	16,973,217	20,548,785	(a)
Motor spirit .. ..	do.	1,936,570	1,477,743	(a)
Kerosene .. ..	do.	8,863,332	8,947,800	(a)
Gas oil .. ..	Long ton	2,179	9,286	(a)
Fuel oil .. ..	do.	227,712	208,865	(a)
Lubricating oil and greases .. ..	do.	7,734	5,400	(a)
Paraffin wax .. ..	do.	577	210	(a)
Vaseline .. ..	do.	21	22	(a)
Asphalt .. ..	do.	1,380	2,280	(a)
<b>Venezuela—</b>				
Crude petroleum ..	Long ton	5	83	(a)
Motor spirit .. ..	do.	978	2,886	(a)
Kerosene .. ..	do.	1,071	1,065	(a)
Fuel oil .. ..	do.	2,038	689	(a)
Vaseline .. ..	do.	21	25	(a)
Asphalt and bitumen..	do.	339	1,769	(a)
Paraffin wax .. ..	do.	1,906	1,852	(a)
<b>China—</b>				
Motor spirit .. ..	Gallon	16,701,325	23,870,298	24,770,877
Kerosene .. ..	do.	218,993,841	199,386,078	154,673,830
Fuel oil .. ..	Long ton	221,668	183,909	151,093
Lubricating oil ..	Gallon	10,160,776	11,237,032	10,778,415
Solar oil .. ..	Long ton	(a)	15,620	42,266
Paraffin wax .. ..	do.	41,078	35,416	24,368
<b>Formosa—</b>				
Crude and heavy oils	Gallon	7,345,686	6,572,571	(a)
Motor spirit .. ..	do.	375,411	907,323	(a)
Kerosene .. ..	do.	3,322,839	4,186,319	(a)
Other light oils ..	do.	498,088	447,445	(a)
Lubricating oil and grease .. ..	do.	1,457,155	1,727,001	(a)
Other oils .. ..	Long ton	569	(a)	(a)
Paraffin wax .. ..	do.	304	155	(a)
<b>French Indo-China—</b>				
Refined petroleum ..	Long ton	60,365	61,234	} 91,000
Distillates .. ..	do.	27,003	30,555	
Heavy oils, etc. ..	do.	21,979	23,933	(a)
Paraffin wax, etc. ..	do.	1,683	1,105	(a)
Asphalt and bitumen..	do.	167	244	(a)



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

Importing Country and Description	Unit	1928	1929	1930
FOREIGN COUNTRIES(Cont.)				
Japan ( <i>j</i> ) ( <i>l</i> )—				
Crude oils .. ..	Gallon	380,654,900	419,816,500	342,930,100
Motor spirit .. ..	do.	10,437,200	9,813,600	2,890,100
Kerosene .. ..	do.	68,503,600	90,401,400	110,829,000
Lubricating oil .. ..	do.	5,799,300	6,572,800	5,130,900
do. ( <i>additional</i> ) ..	Long ton	23,623	20,648	19,909
Vaseline .. ..	do.	656	462	356
Paraffin wax .. ..	do.	20,832	16,897	18,834
Pitch and asphalt ..	do.	12,211	14,775	12,313
Korea ( <i>j</i> )—				
Crude and heavy oils..	Gallon	6,155,003	7,554,528	8,367,272
Motor spirit .. ..	do.	3,179,757	5,911,076	5,911,405
Kerosene .. ..	do.	7,956,502	13,517,416	5,864,392
Lubricating oil .. ..	Long ton	8,240	9,465	9,792
Paraffin wax .. ..	do.	562	953	277
Netherlands East Indies—				
Motor spirit .. ..	Long ton	45,895	11,595	( <i>a</i> )
Kerosene .. ..	do.	47,364	84,428	( <i>a</i> )
Fuel and motor oils ..	do.	14,918	97,957	( <i>a</i> )
Lubricating oil .. ..	do.	12,647	15,451	( <i>a</i> )
Vaseline .. ..	do.	62	121	( <i>a</i> )
Greases.. ..	do.	673	844	( <i>a</i> )
Paraffin wax .. ..	do.	1,050	690	( <i>a</i> )
Ceresin .. ..	do.	140	348	( <i>a</i> )
Pitch .. ..	do.	5	13	( <i>a</i> )
Asphalt .. ..	do.	24,762	32,936	( <i>a</i> )
Persia ( <i>j</i> ) ( <i>m</i> )—				
Crude petroleum .. ..	Long ton	—	267	240
Motor spirit .. ..	do.	6,910	12,097	14,250
Kerosene .. ..	do.	32,732	33,141	30,317
Greases.. ..	do.	351	1,755	710
Fuel and lubricating oils	do.	3,586	4,860	5,430
Philippine Islands—				
Crude oil .. ..	Gallon	33,147,556	50,076,080	50,604,168
Motor spirit .. ..	do.	19,093,131	21,388,256	20,533,243
Kerosene .. ..	do.	14,915,745	18,605,367	15,127,429
Lubricating oil .. ..	do.	3,297,180	2,495,269	3,150,923
Other distillates .. ..	Long ton	186,582	152,774	39,569
Residual oils .. ..	do.	1,085	1,156	911
Mineral wax .. ..	do.	2,124	1,941	2,745
Asphaltum .. ..	do.	3,468	4,030	7,280

(a) Information not available.

(j) Total imports.

(l) Excluding fuel oil imported on government account.

(m) Years ended March 21.

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

Importing Country and Description	Unit	1928	1929	1930
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Ecuador—</b>				
Petroleum, crude ..	Long ton	14,009	17,622	17,105
do. refined ..	do.	3,580	6	15
Motor spirit .. ..	do.	1,674	1,580	1,642
Kerosene .. ..	do.	671	782	756
Lubricating oils and greases .. ..	do.	986	853	921
Paraffin wax, etc. ..	do.	1,353	1,439	1,182
Vaseline .. ..	do.	21	20	19
Asphalt and bitumen..	do.	772	229	509
<b>Siam (total imports)—</b>				
Motor spirit .. ..	Gallon	4,157,644	5,230,509	5,339,587
Kerosene .. ..	do.	9,309,023	9,977,555	(a)
Fuel oil .. ..	do.	6,199,122	8,644,716	10,138,283
Lubricating oil ..	do.	1,275,265	1,276,202	1,300,517
<b>Syria and Lebanon—</b>				
Motor spirit .. ..	Long ton	23,690	27,917	26,885
Kerosene .. ..	do.	27,650	34,844	27,468
Fuel oil .. ..	do.	(a)	2,834	8,379
Lubricating oils ..	do.	(a)	2,112	3,222
Paraffin wax .. ..	do.	(a)	72	56
Asphalt and bitumen..	do.	(a)	3,361	5,109
Vaseline .. ..	do.	(a)	52	16
<b>Timor—</b>				
Petroleum .. ..	Long ton	178	(a)	(a)
<b>Turkey—</b>				
Crude petroleum ..	Long ton	152	214	135
Motor spirit .. ..	do.	25,093	31,259	23,418
Kerosene .. ..	do.	46,783	52,143	31,754
Fuel oil .. ..	do.	655	(n)8,175	31,580
Lubricating oil ..	do.	(a)	(a)	4,904
Paraffin wax, etc. ..	do.	242	371	} 453
Vaseline .. ..	do.	275	435	
<b>New Caledonia—</b>				
Motor spirit .. ..	Long ton	1,735	4,992	2,519
Lubricating oil ..	do.	686	827	844
<b>Iceland—</b>				
Motor spirit .. ..	Long ton	3,025	(a)	(a)
Kerosene .. ..	do.	6,396	(a)	(a)
Solar and gas oils ..	do.	5,166	(a)	(a)
Lubricating oils ..	do.	915	(a)	(a)

(a) Information not available.

(n) Including other heavy oils from October 1.

## PHOSPHATES

### PRODUCTION OF PHOSPHATE-ROCK

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Seychelles (exports) ..	15,165	12,587	15,725
Canada (sales) .. ..	572	1,058	36
India .. .. .	805	22	303
Christmas Island .. ..	111,891	117,864	119,933
Australia .. .. .	136	70	26
Nauru and Ocean Islands ..	543,715	552,835	443,305
Total ..	672,000	684,000	579,000
<b>FOREIGN COUNTRIES</b>			
Belgium .. .. .	15,265	39,693	(a)
Estonia .. .. .	6,751	8,220	4,774
France .. .. .	215,700	(a)	(a)
Poland .. .. .	15,750	37,900	(a)
Russia (years ended Sept. 30) .. .. .	119,789	(a)	(a)
Spain .. .. .	7,772	7,506	(a)
Algeria .. .. .	862,000	766,078	833,314
Egypt .. .. .	197,395	211,910	308,527
Madagascar .. .. .	8,317	12,300	11,100
Morocco (French zone) ..	1,248,101	1,620,000	(b) 1,774,210
Tunis .. .. .	2,745,000	2,471,305	3,273,000
Netherlands West Indies (exports) .. .. .	102,458	100,082	86,115
United States .. .. .	3,523,230	3,821,840	3,951,353
French Indo-China .. ..	19,319	19,325	29,800
Japan .. .. .	57,848	15,000	27,275
Philippine Islands .. ..	1,333	1,468	(a)
Angaur Island .. .. .	63,000	62,899	61,105
Makatea .. .. .	184,000	220,000	173,294
New Caledonia .. .. .	11,000	11,000	(a)
Total ..	9,400,000	9,800,000	11,000,000
<b>WORLD'S TOTAL</b>	10,100,000	10,500,000	11,600,000

During 1929 and 1930 Rumania produced 800 cu. metres and 900 cu. metres of phosphatic guano, respectively.

(a) Information not available.

(b) Exports.

## PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom (c) ..	498,770	597,279	559,789
Canada .. .. .	4,606	(a)	(a)
Australia .. .. .	719,947	899,552	(a)
New Zealand (b) .. ..	263,642	264,564	219,413
FOREIGN COUNTRIES			
Austria .. .. .	44,801	54,615	39,228
Belgium .. .. .	344,000	297,000	362,000
Czechoslovakia .. .. .	214,428	238,661	180,487
Denmark .. .. .	236,000	267,000	317,000
Finland .. .. .	45,774	39,417	32,310
France .. .. .	2,063,000	2,309,720	(a)
Germany .. .. .	738,000	830,000	851,000
Greece .. .. .	39,188	86,665	63,944
Hungary .. .. .	124,000	148,000	80,000
Italy .. .. .	1,033,000	1,279,500	1,366,153
Latvia .. .. .	45,552	47,032	46,680
Jugoslavia .. .. .	74,420	87,654	41,949
Netherlands .. .. .	635,000	623,232	649,111
Norway .. .. .	14,400	24,700	23,810
Poland .. .. .	340,000	325,000	271,157
Portugal .. .. .	179,000	202,000	230,000
Rumania .. .. .	14,000	15,000	13,051
Russia (years ended Sept. 30) .. .. .	149,287	196,421	385,600
Spain .. .. .	881,013	957,734	1,130,075
Sweden .. .. .	239,209	232,012	254,500
Switzerland .. .. .	25,753	29,307	28,133
Algeria .. .. .	96,000	} 139,100	} 135,000
Tunis .. .. .	44,400		
Morocco .. .. .	25,200		
United States .. .. .	4,008,368	3,836,052	4,110,061
Japan .. .. .	911,546	932,000	(a)

(a) Information not available.

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

(c) Including Irish Free State.

## PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom (years ended Sept. 30.) (b) ..	663,458	(a)	(a)
FOREIGN COUNTRIES			
Belgium .. .. .	940,532	1,008,000	(a)
Czechoslovakia .. ..	152,485	148,143	124,347
France—			
Saar .. .. .	324,771	338,553	305,000
Other districts .. ..	1,452,000	1,478,247	(a)
Germany .. .. .	1,613,254	1,856,690	(a)
Luxemburg .. .. .	588,767	625,449	(a)
Poland .. .. .	32,600	(a)	(a)
Sweden .. .. .	9,346	13,663	(a)
United States .. .. .	17,857	(a)	(a)

(a) Information not available.

(b) The estimated amount ground and used as fertilizers was:—

1928	220,000 long tons
1929	320,000 " "
1930	240,000 " "

## EXPORTS OF PHOSPHATES, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom (b)—			
Superphosphates .. ..	12,621	19,027	17,831
Basic slag .. ..	22,292	23,015	12,151
Seychelles—			
Phosphatic guano .. ..	15,165	12,587	15,725
Canada—			
Phosphate-rock .. ..	—	46	—
Christmas Island—			
Phosphate-rock .. ..	111,891	117,864	119,933
Australia (including re- exports)—			
Superphosphates .. ..	—	17	2
New Zealand—			
Superphosphates .. ..	475	899	1,000
Nauru and Ocean Islands—			
Phosphate-rock .. ..	543,715	552,835	443,305
FOREIGN COUNTRIES			
Austria—			
Superphosphates .. ..	2,975	169	241
Basic slag .. ..	5	95	26
Belgium-Luxemburg E.U.—			
Phosphate-rock .. ..	109,744	108,949	69,190
Superphosphates .. ..	251,429	198,432	150,744
Basic slag .. ..	1,185,946	1,205,637	1,026,682
Czechoslovakia—			
Superphosphates .. ..	1,745	280	2,569
Basic slag .. ..	16,274	14,971	17,830
Denmark—			
Superphosphates .. ..	26,700	3,845	16,560
Estonia—			
Phosphate-rock .. ..	546	62	4

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

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
France—			
Phosphate-rock .. ..	4,185	8,254	9,712
Superphosphates .. ..	254,948	217,376	196,607
Basic slag .. .. .	1,021,293	940,672	976,978
Germany—			
Phosphate-rock, etc. ..	4,816	7,521	4,344
Superphosphates .. ..	95,372	143,425	73,788
Basic slag .. .. .	429,211	237,057	290,437
Hungary—			
Superphosphates .. ..	2	3,701	24
Italy—			
Phosphate-rock .. ..	121	221	24
Superphosphates, including bone superphosphates ..	23,188	22,287	20,698
Basic slag .. .. .	37	260	2
Jugoslavia—			
Superphosphates .. ..	9,394	8,062	4,519
Latvia—			
Superphosphates .. ..	20,660	33,178	4,978
Basic slag .. .. .	180	44	159
Netherlands—			
Phosphate-rock .. ..	31	—	295
Superphosphates .. ..	469,195	426,431	427,782
Basic slag .. .. .	1,337	295	349
Norway—			
Superphosphates .. ..	490	506	357
Poland—			
Superphosphates .. ..	34,437	24,724	48,424
Basic slag .. .. .	84	381	1
Portugal—			
Superphosphates .. ..	2,344	1,259	2,773
Rumania—			
Superphosphates .. ..	346	(a)	81
Sweden—			
Superphosphates .. ..	65,307	55,528	27,590
Algeria—			
Phosphate-rock .. ..	754,723	795,621	753,256
Superphosphates .. ..	19,244	31,425	14,594
Egypt—			
Phosphate-rock .. ..	166,126	213,151	309,208
Madagascar—			
Phosphate-rock .. ..	8,169	12,303	10,826

(a) Information not available.

(b) Including exports to Irish Free State. See also note (c) p. 266.

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

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Morocco (French zone)—			
Phosphate-rock .. ..	1,308,908	1,552,660	1,774,210
Superphosphates .. ..	18,213	23,321	13,201
Tunis (including re-exports)—			
Phosphate-rock .. ..	2,641,533	2,970,057	2,610,920
Superphosphates .. ..	6	6	5
Netherlands West Indies—			
Phosphate-rock .. ..	102,458	100,082	86,115
United States—			
Phosphate-rock .. ..	898,764	1,142,746	1,225,121
Superphosphates .. ..	88,613	85,118	112,260
Angaur Island—			
Phosphate-rock .. ..	60,000	62,899	61,105
Makatea—			
Phosphate-rock .. ..	129,232	210,000	195,955
New Caledonia—			
Phosphate-rock .. ..	10,480	5,574	(a)

(a) Information not available.



## IMPORTS OF PHOSPHATES, ETC.

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

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Phosphate-rock .. ..	272,997	377,532	454,999
Superphosphates .. ..	123,476	130,517	101,053
Basic slag .. ..	43,013	33,901	22,282
Irish Free State—			
Phosphate-rock .. ..	60,630	93,335	94,912
Superphosphates .. ..	38,884	44,462	42,496
Basic slag .. ..	30,243	34,928	38,771
Mauritius—			
Superphosphates .. ..	844	825	460
Southern Rhodesia—			
Superphosphates .. ..	3,249	6,263	(a)
Union of South Africa—			
Phosphate-rock .. ..	66,892	45,701	52,078
Superphosphates .. ..	85,518	102,155	95,119
Basic slag .. ..	16,049	11,048	10,886
Canada—			
Phosphate-rock .. ..	9,275	16,243	42,148
Superphosphates .. ..	87,044	87,433	114,188
Basic slag .. ..	12,482	12,166	8,532
Ceylon—			
Phosphate-rock .. ..	(a)	(a)	12,234
Superphosphates .. ..	5,528	5,503	5,430
Basic slag .. ..	3,126	2,292	1,920
Australia—			
Phosphate-rock .. ..	539,336	583,524	512,556
Superphosphates .. ..	55	430	26
New Zealand—			
Phosphate-rock .. ..	134,302	154,909	119,293
Superphosphates .. ..	987	900	21
Basic slag .. ..	91,541	94,498	61,795
FOREIGN COUNTRIES			
Austria—			
Phosphate-rock .. ..	28,286	24,121	30,667
Superphosphates .. ..	4,930	2,355	6,587
Basic slag .. ..	61,920	52,228	47,177
Belgium-Luxemburg E.U.—			
Phosphate-rock .. ..	312,957	353,420	358,177
Superphosphates .. ..	37,953	42,065	19,018
Basic slag .. ..	109,105	103,257	105,567

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Phosphate-rock .. ..	140,412	143,815	123,464
Superphosphates .. ..	15,171	18,208	4,814
Basic slag .. ..	38,622	44,289	19,324
Denmark—			
Phosphate-rock .. ..	128,559	156,576	187,526
Superphosphates .. ..	124,438	190,351	180,561
Basic slag .. ..	12,744	8,845	11,647
Estonia—			
Superphosphates .. ..	28,600	28,440	21,248
Basic slag .. ..	3,131	952	1,533
Finland—			
Phosphate-rock .. ..	24,298	18,764	17,048
Superphosphates .. ..	31,261	9,654	9,483
Basic slag .. ..	45,882	25,433	30,993
France—			
Phosphate-rock .. ..	1,388,171	1,592,242	1,523,783
Superphosphates .. ..	8,044	11,726	20,329
Basic slag .. ..	3,731	3,766	6,499
Germany—			
Phosphate-rock, etc. .. ..	781,612	895,208	821,234
Superphosphates .. ..	112,193	114,506	107,709
Basic slag .. ..	1,142,256	1,098,152	1,140,326
Hungary—			
Phosphate-rock .. ..	70,869	83,183	32,638
Superphosphates .. ..	25,982	19,463	9,572
Basic slag .. ..	9,338	7,167	3,968
Italy—			
Phosphate-rock .. ..	609,840	757,348	857,914
Superphosphates, including bone superphosphates .. ..	35,834	22,054	28,672
Basic slag .. ..	104,886	68,590	55,826
Jugoslavia—			
Phosphate-rock (estimated)	41,200	50,000	47,800
Superphosphates .. ..	452	487	98
Basic slag .. ..	3,105	2,992	2,732
Latvia—			
Phosphate-rock .. ..	22,643	23,095	33,863
Superphosphates .. ..	33,326	24,896	31,379
Basic slag .. ..	29,206	23,805	21,566
Lithuania—			
Superphosphates .. ..	68,028	43,290	(a)

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

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Netherlands—			
Phosphate-rock .. ..	368,340	388,686	445,969
Superphosphates .. ..	106,374	89,036	44,892
Basic slag .. ..	416,443	363,032	377,919
Norway—			
Phosphate-rock .. ..	11,421	15,575	14,208
Superphosphates .. ..	24,402	33,053	29,965
Basic slag .. ..	20,943	10,069	14,972
Poland—			
Phosphate-rock .. ..	143,492	220,468	150,496
Superphosphates .. ..	2,949	2,828	2,255
Basic slag .. ..	269,473	272,740	131,500
Portugal—			
Phosphate-rock .. ..	97,266	118,689	99,581
Superphosphates .. ..	6,299	4,134	4,236
Rumania—			
Phosphate-rock .. ..	(a)	(a)	7,058
Superphosphates .. ..	2,550	900	411
Russia (years ended Sept. 30)—			
Phosphate-rock .. ..	—	23,357	83,640
Superphosphate .. ..	61,480	88,177	87,240
Basic slag .. ..	7,288	(a)	(a)
Spain (total imports)—			
Phosphate-rock .. ..	544,110	553,237	573,500
Superphosphates .. ..	132,046	52,762	27,089
Basic slag .. ..	13,597	9,996	7,010
Sweden—			
Phosphate-rock .. ..	144,081	135,470	135,200
Superphosphates .. ..	19,732	16,749	14,281
Basic slag .. ..	4,871	59	376
Switzerland—			
Basic slag .. ..	99,566	101,763	98,560
Algeria—			
Superphosphates .. ..	27,842	22,206	30,923
Double superphosphates, etc. .. ..	3,927	39	304
Basic slag .. ..	5,828	8,367	3,573
Egypt—			
Superphosphates .. ..	38,646	59,576	44,629
Tunis—			
Superphosphates .. ..	13,915	17,503	6,745

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Martinique—			
Superphosphates .. ..	1,037	(a)	1,215
Basic slag .. .. .	(a)	(a)	232
United States—			
Phosphate-rock .. ..	45,812	44,899	32,658
Other crude phosphates .. ..	2,822	40	(a)
Basic slag .. .. .	1,754	3,998	59,680
Chile—			
Superphosphates .. ..	3,493	5	3
Basic slag .. .. .	(a)	(a)	23,103
Formosa—			
Phosphate-rock .. ..	4,000	2,990	(a)
Superphosphates .. ..	41,330	38,350	(a)
Japan—			
Phosphate-rock .. ..	465,839	550,241	561,290
Netherlands East Indies—			
Phosphates .. .. .	8,976	8,391	(a)
Philippine Islands—			
Superphosphates .. ..	3,162	2,829	743
Syria and Lebanon—			
Phosphates .. .. .	(a)	632	1,072

(a) Information not available.

## PLATINUM

### PRODUCTION OF PLATINUM METALS (Troy ounces)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Sierra Leone—			
Crude .. .. .	—	26	542
Union of South Africa—			
Crude (content).. ..	14,656	24,084	49,375
Concentrates (content)	9,007	5,730	5,967
Osmiridium .. .. .	5,671	5,810	5,732
Canada—			
Platinum from placers (content) .. .. .	49	28	(a)
Recovered from Ontario nickel-copper matte:			
Platinum .. .. .	10,452	12,474	} 34,000
Palladium .. .. .	11,389	12,231	
Other metals .. ..	1,689	4,910	
New South Wales—			
Platinum from placers	354	128	155
Tasmania—			
Osmiridium from placers	1,627	1,360	953
New Zealand—			
Platinum from placers..	(d) 35	7	3
Papua (years ended June 30)			
Osmiridium from placers	215	29	11
<b>FOREIGN COUNTRIES</b>			
Russia—			
Crude platinum from placers (estimated) ..	100,000	100,000	(a)
Abyssinia—			
Platinum .. .. .	3,247	7,716	(a)
United States—			
Platinum from placers..	528	797	(a)
Domestic crude platinum purchased by refiners	365	516	797
New platinum metals re- covered by refineries(b)	59,039	47,977	43,502
Colombia—			
Platinum from placers..	53,530	45,576	(c) 46,232
Japan—			
Platinum from placers..	100	147	128

(a) Information not available.

(b) These figures include recoveries from imported concentrates, etc.

(c) Exports.

(d) In addition 10 dwt. of osmiridium were produced.

## EXPORTS OF PLATINUM.\*

(Domestic Produce)

(Troy ounces)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Unrefined platinum ..	101	73	50
Refined platinum .. ..	21,331	24,310	16,064
Alloys .. ..	341	141	44
Union of South Africa—			
Osmiridium .. ..	5,505	5,695	5,484
Platinum .. ..	16,273	20,802	41,132
Canada—			
Concentrates, etc. ( <i>metal content</i> ) .. ..	1,212	2,798	19,835
Scrap .. ..	424	112	285
Australia (including re-exports)—			
Bars, blocks, rods, plates, etc.	951	609	693
Osmiridium .. ..	512	239	290
Papua (years ended June 30)—			
Osmiridium .. ..	37	29	40
FOREIGN COUNTRIES			
Austria—			
Ingots, sheets and wire ..	129	257	32
Belgium-Luxemburg E.U.—			
Unwrought platinum ..	(£1,340)	(£9,400)	(£2,600)
France—			
Unwrought platinum and scrap .. ..	257	257	2,797
Drawn or rolled platinum ..	225	1,190	16,429
Italy—			
Sheets, bars, dust, scrap, etc.	1,029	96	836
Germany—			
Platinum metals .. ..	83,397	88,306	58,760
Poland—			
Ingots, sheets, wire, etc. ...	17	19	34
Russia (years ended Sept. 30)	78,925	93,800	(a)
Sweden—			
Unwrought platinum ..	27	25	44

EXPORTS OF PLATINUM (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Switzerland— Unwrought platinum ..	418	482	96
Egypt— Platinum .. .. .	17	62	(a)
United States— Unwrought platinum ..	9,050	2,567	1,037
Colombia— Crude platinum .. ..	13,918	13,551	} 46,232
Other platinum .. ..	27,958	17,520	

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

(a) Information not available.

## IMPORTS OF PLATINUM. \*

(Less Re-exports)

(Troy ounces)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Unrefined platinum ..	37,251	4,458	7,973
Refined platinum .. ..	21,655	4,024	8,701
Alloys .. .. .	56	7	181
Canada—			
Bars, sheets, wire, etc. ..	(£28,462)	(£32,245)	(£17,957)
Crucibles .. .. .	(£2,225)	(£2,661)	(£2,515)
Newfoundland (year ended June 30)—			
Platinum .. .. .	(£1)	(£510)	(£6)
Australia—			
Bars, rods, plates, etc. ..	798	798	533
New Zealand—			
Bars, blocks and rods, etc.	41	65	103
FOREIGN COUNTRIES			
Austria—			
Ingots, sheets and wire ..	2,540	2,218	1,672
Belgium-Luxemburg E.U.—			
Unwrought platinum ..	(£46,300)	(£32,200)	(£26,000)
Denmark—			
Rods, sheets and wire ..	96	130	64
Finland—			
Unwrought platinum ..	25	35	37
France—			
Unwrought platinum and scrap .. .. .	15,500	37,700	35,300
Drawn or rolled platinum ..	8,490	2,930	8,620
Germany—			
Platinum metals .. ..	98,871	125,986	109,500
Italy—			
Bars, dust and scrap ..	2,861	1,833	1,575
Sheets and foil .. ..	1,286	2,025	3,504
Wire .. .. .	322	676	708
Latvia—			
Ingots, sheets and wire ..	(a)	7	6
Netherlands—			
Unwrought platinum ..	225	772	2,604
Norway—			
Unwrought platinum ..	—	(£11)	(a)
Sheets, rolled and wire ..	90	52	(a)
Poland—			
Ingots, sheets and wire ..	222	173	134



## IMPORTS OF PLATINUM (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Spain (total imports)— Unwrought platinum ..	257	—	267
Sweden— Unwrought platinum ..	120	33	64
Switzerland— Unwrought platinum ..	643	1,029	643
Egypt (total imports)— Platinum .. ..	1,221	1,252	714
United States— Platinum content of ore ..	686	564	—
Unwrought platinum ..	107,761	114,657	106,155
Iridium, palladium, etc. ..	26,747	39,842	33,066
Cuba— Bars .. ..	(a)	2,100	(a)
Brazil (total imports)— Ingots, sheets and wire ..	464	749	298
Japan (total imports)— Platinum .. ..	20,796	14,305	15,528
Syria and Lebanon— Unwrought platinum ..	(a)	3,987	2,186
Turkey— Plates, sheets and wire ..	2	616	253

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

(a) Information not available.

## POTASH MINERALS

### PRODUCTION OF POTASH (Long tons)

Producing Country and Description	1928	1929	1930	K <sub>2</sub> O Content or Equivalent		
				1928	1929	1930
<b>BRITISH EMPIRE</b>						
India—						
Nitrate (estimated)	4,700	4,800	4,000	2,000	2,000	1,600
Australia—						
Alunite ..	—	38	—	—	3	—
Total (estimated)				2,000	2,000	1,600
<b>FOREIGN COUNTRIES</b>						
France—						
K <sub>2</sub> O equivalent—						
Sylvinite, etc. :						
12-16 % ..	212,080	254,844	205,722	} 400,218	486,133	498,489
18-22 % ..	607,683	704,612	650,748			
50 % and over	330,720	405,149	467,985			
Germany—						
Kainite, sylvinite, etc. ..	10,266,562	10,824,575	9,935,271	1,467,097	1,540,548	1,406,851
Carnallite, etc. .	2,025,261	2,281,331	1,838,053	197,322	218,992	176,259
Italy—						
Leucite .. ..	38,600	37,131	40,500	(a)	(a)	(a)
Alunite .. ..	193	103	812	20	10	80
Poland—						
Kainite .. ..	144,375	135,681	99,191	14,438	13,568	9,919
Sylvite .. ..	191,885	217,283	201,591	42,456	48,900	(a)
Russia (years ended Sept. 30)—						
Alunite clay ..	5,400	(a)	(a)	(a)	(a)	(a)
Alunite (impure)	1,783	(a)	(a)	(a)	(a)	(a)
Spain (b)—						
Crude salts ..	239,391	240,096	(a)	(a)	(a)	(a)
Nitrified earth ..	837	1,000	(a)	(a)	(a)	(a)
Abyssinia—						
Crude salts ..	1,300	(a)	(a)	650	(a)	(a)
United States—						
Crude salts ..	92,972	96,268	94,473	53,491	54,991	54,705
Korea—						
Alunite (impure)	13,580	10,641	11,523	(a)	(a)	(a)
Total ..				2,180,000	2,360,000	2,200,000
<b>WORLD'S TOTAL</b>				<b>2,180,000</b>	<b>2,360,000</b>	<b>2,200,000</b>

(a) Information not available.

(b) 60 and 600 cubic metres of alunite were also produced in 1928 and 1929 respectively.

EXPORTS OF POTASH  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Fertilizer salts .. ..	241	477	532
Nitrate .. .. .	828	650	580
Chromate and bichromate	1,412	903	796
Other compounds .. ..	1,849	1,574	1,563
Canada—			
Fertilizer salts .. ..	75	148	5
Aden (including re-exports)—			
Compounds .. .. .	613	392	249
British India—			
Nitrate .. .. .	4,479	4,585	3,827
Other compounds .. ..	3	—	50
British Malaya (including re-exports)—			
Nitrate .. .. .	373	196	217
Australia (including re-exports)			
Alunite .. .. .	640	38	—
<b>FOREIGN COUNTRIES</b>			
Austria—			
Fertilizer salts .. ..	16	44	3
Nitrate .. .. .	325	255	226
Bicarbonate, including sodium bicarbonate ..	1,215	1,473	1,410
Chloride .. .. .	—	61	17
Carbonate .. .. .	13	38	24
Belgium-Luxemburg E. U.—			
Fertilizer salts .. ..	2,713	25,767	30,782
Nitrate .. .. .	249	245	117
Chloride .. .. .	799	16,831	11,570
Caustic potash .. ..	749	1,066	1,719
Carbonate .. .. .	2,728	2,756	2,005
Chromate and bi-chromate including those of sodium	1,640	1,975	864
Sulphate .. .. .	3,838	3,244	3,641
Bulgaria—			
Carbonate .. .. .	219	155	(a)
Czechoslovakia—			
Fertilizer salts .. ..	32	31	4
Carbonate .. .. .	2,135	1,951	3,140
Chloride .. .. .	1,195	1,065	1,186

(a) Information not available.

EXPORTS OF POTASH (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia ( <i>Cont.</i> )—			
Nitrate .. .. .	105	96	104
Manganate and permanganate, including those of sodium .. .. .	1,225	1,028	1,138
Sulphate .. .. .	680	475	804
Sulphide, including sodium sulphide .. .. .	666	137	322
Finland—			
Chlorate .. .. .	1,355	1,021	2,571
France—			
Kainite .. .. .	34,180	41,178	52
Chloride .. .. .	639,444	781,957	768,635
Nitrate—			
Natural .. .. .	309	520	113
Synthetic .. .. .	6,481	6,120	3,979
Carbonate .. .. .	804	560	397
Caustic potash .. .. .	4,584	4,032	5,219
Chlorate .. .. .	3,364	2,405	2,844
Sulphate .. .. .	4,373	2,079	2,841
Germany—			
Fertilizer salts (9–12% K <sub>2</sub> O)	340	428	202
do. (12–17·9% K <sub>2</sub> O)	251,815	191,235	175,095
do. (18–42% K <sub>2</sub> O) ..	831,713	868,474	800,725
do. (other) .. .. .	5,325	4,791	3,418
Nitrate .. .. .	22,796	28,084	25,590
Carbonate and wool grease ash .. .. .	16,169	19,738	13,388
Caustic potash .. .. .	29,962	37,506	31,394
Chlorate .. .. .	12,409	14,749	11,999
Chloride .. .. .	190,472	212,836	225,011
Cyanides .. .. .	4,744	4,820	4,141
Manganate and permanganate .. .. .	870	886	611
Sulphate .. .. .	178,537	177,014	194,215
Magnesium potassium sulphate .. .. .	62,036	68,979	55,551
Hungary—			
Fertilizer salts .. .. .	219	223	232
Carbonate .. .. .	991	1,261	839
Italy—			
Fertilizer salts .. .. .	20	67	17

EXPORTS OF POTASH (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Jugoslavia—			
Carbonate of potash ..	(a)	140	29
Netherlands—			
Fertilizer salts .. ..	2	61	291
Caustic potash .. ..	48	777	632
Chloride .. ..	175	353	428
Nitrate .. ..	1,807	1,207	976
Sulphate .. ..	88	89	60
Poland—			
Fertilizer salts .. ..	22,539	12,976	15,136
Carbonate .. ..	—	2	23
Caustic potash .. ..	288	485	221
Chlorate .. ..	73	335	108
Rumania—			
Chlorate .. ..	64	(a)	40
Spain (including re-exports)—			
Fertilizer salts ... ..	16,002	24,388	22,180
Sweden—			
Caustic potash .. ..	377	756	584
Chlorate, including sodium chlorate .. ..	5,009	6,733	3,479
Switzerland—			
Caustic potash, including caustic soda .. ..	16	164	64
Nitrate, including nitrate of soda .. ..	221	3,229	6,936
United States—			
Fertilizer salts .. ..	(a)	13,868	15,216
Compounds .. ..	2,338	1,360	1,121
Chile—			
Potassium compounds ..	214	204	15
Japan—			
Chlorate .. ..	20	4	3
Iodide .. ..	7	16	15

(a) Information not available.

## IMPORTS OF POTASH

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Fertilizer salts .. .. .	97,949	135,612	112,780
Nitrate .. .. .	5,656	6,022	5,044
Carbonate .. .. .	2,650	2,506	2,745
Caustic potash and lyes ..	5,352	5,636	6,146
Chlorate .. .. .	1,281	1,171	1,116
Chloride .. .. .	32,803	35,190	27,388
Sulphate .. .. .	18,659	20,820	14,587
Other compounds .. .. .	2,132	2,063	1,677
Irish Free State—			
Kainite .. .. .	12,896	13,359	13,031
Other compounds .. .. .	290	269	214
Mauritius—			
Nitrate .. .. .	2,787	3,225	(a)
Sulphate .. .. .	100	60	(a)
Northern Rhodesia—			
Compounds .. .. .	36	17	11
Southern Rhodesia—			
Compounds .. .. .	144	50	(a)
Union of South Africa—			
Fertilizer salts .. .. .	7,074	5,890	4,969
Nitrate .. .. .	150	117	125
Other compounds .. .. .	855	763	853
Canada—			
Fertilizer salts .. .. .	21,479	15,718	32,991
Crude sulphate .. .. .	890	807	1,847
Nitrate .. .. .	448	632	422
Other compounds .. .. .	1,204	1,778	1,472
Aden (total imports)—			
Compounds .. .. .	615	231	252
British India (total imports)—			
Bichromate .. .. .	282	268	198
Chlorate .. .. .	1,973	2,106	2,124
Chloride .. .. .	6,748	7,484	5,270
Other compounds .. .. .	477	522	569
British Malaya (total im- ports)—			
Nitrate .. .. .	352	234	290

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>			
Ceylon—			
Kainite .. .. .	830	1,480	3,587
Nitrate refuse .. .. .	3,450	3,895	2,820
Chloride—			
Sylvite .. .. .	7,349	5,626	4,250
Sylvinite .. .. .	2,272	1,666	316
Sulphate .. .. .	1,030	810	860
Australia—			
Nitrate .. .. .	452	713	1,042
Cyanides, including sodium cyanide .. .. .	685	746	612
Other compounds .. .. .	1,006	1,138	1,353
New Zealand—			
Kainite .. .. .	861	901	1,059
Other fertilizer salts .. .. .	9,592	7,024	6,280
Chlorate .. .. .	66	82	82
Nitrate .. .. .	95	86	64
Sulphate .. .. .	1,915	1,207	1,296
<b>FOREIGN COUNTRIES</b>			
Austria—			
Fertilizer salts .. .. .	23,137	18,924	14,628
Carbonate .. .. .	721	877	577
Caustic potash .. .. .	418	450	481
Chloride .. .. .	998	924	618
Nitrate .. .. .	39	19	10
Sulphate .. .. .	218	253	136
Belgium-Luxemburg E. U.—			
Fertilizer salts .. .. .	154,892	253,991	135,695
Carbonate .. .. .	1,595	1,337	976
Caustic potash and lyes .. .. .	8,923	9,084	8,743
Chlorate .. .. .	683	781	911
Chloride .. .. .	26,459	60,619	36,933
Chromate and bichromate, including those of sodium	426	185	184
Nitrate .. .. .	466	1,196	1,695
Sulphate .. .. .	4,819	3,385	2,447
Bulgaria—			
Potassium compounds .. .. .	131	95	(a)

(a) Information not available.

## IMPORTS OF POTASH (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Czechoslovakia—</b>			
Kainite .. .. .	47,160	38,782	32,160
Fertilizer salts (18–24% K <sub>2</sub> O)	2,996	2,071	1,417
do. do. (38–44% K <sub>2</sub> O)	62,754	67,967	51,342
do. do. (other) ..	1,930	222	123
Bicarbonate, including sodium bicarbonate ..	752	674	828
Chloride .. .. .	4,218	5,046	5,821
Nitrate .. .. .	75	55	52
<b>Denmark—</b>			
Kainite .. .. .	1,381	1,850	} 78,128
Fertilizer salts (20% K <sub>2</sub> O or less)	59	235	
do. (37% K <sub>2</sub> O or less)	40,876	75,269	
do. (other) .. ..	789	—	
Carbonate .. .. .	647	722	690
Caustic potash .. ..	2,939	3,638	3,230
Chlorate .. .. .	411	118	124
Nitrate .. .. .	1,382	1,273	1,491
<b>Estonia—</b>			
Fertilizer salts .. ..	9,503	4,972	5,027
Chlorate .. .. .	90	117	87
Nitrate .. .. .	13	12	16
<b>Finland—</b>			
Fertilizer salts .. ..	37,444	22,027	19,595
Chlorate .. .. .	102	314	11
Chloride .. .. .	1,382	2,182	2,343
Carbonate .. .. .	351	244	281
Nitrate .. .. .	63	37	35
<b>France—</b>			
Chloride .. .. .	59	286	1,367
Nitrate .. .. .	232	277	216
Carbonate .. .. .	2,539	2,026	1,607
Caustic potash .. ..	339	201	434
Chlorate .. .. .	71	1	41
Chromate and bichromate..	694	621	628
Sulphate .. .. .	2,379	2,915	2,448
<b>Germany—</b>			
Nitrate .. .. .	336	152	66
Carbonate and wool grease ash .. .. .	98	902	938
Chlorate .. .. .	33	15	15
Caustic potash .. ..	84	131	423
Sulphate .. .. .	—	123	210
<b>Greece—</b>			
Nitrate .. .. .	111	158	155
Carbonate .. .. .	251	310	348
Caustic potash .. ..	17	12	31
<b>Hungary—</b>			
Potash fertilizer salts ..	5,355	3,677	2,323
Carbonate .. .. .	16	24	31
Chlorate .. .. .	274	255	236



## IMPORTS OF POTASH (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Italy—			
Fertilizer salts .. ..	50,000	55,572	39,356
Nitrate .. ..	1,838	1,771	1,720
Carbonate .. ..	954	1,365	1,272
Caustic potash .. ..	2,507	2,788	3,196
Chlorate .. ..	151	274	123
Jugoslavia—			
Fertilizer salts .. ..	4,232	3,051	2,531
Bicarbonate .. ..	37	40	19
Carbonate .. ..	56	142	95
Caustic potash .. ..	80	81	78
Nitrate .. ..	124	37	28
Latvia—			
Fertilizer salts .. ..	16,991	17,386	15,641
Carbonate .. ..	138	140	256
Caustic potash .. ..	53	71	57
Chlorate .. ..	85	104	102
Nitrate .. ..	—	30	26
Lithuania—			
Potash salts .. ..	8,660	1,271	1,703
Netherlands—			
Kainite .. ..	45,050	35,729	33,199
Fertilizer salts (20% K <sub>2</sub> O)	204,732	217,352	236,086
do. do. (40% K <sub>2</sub> O)	70,516	85,571	79,347
do. do. (other) .. ..	861	965	1,503
Caustic potash .. ..	212	412	670
Chloride .. ..	5,888	4,783	6,212
Nitrate .. ..	861	965	1,503
Sulphate .. ..	5,207	3,034	2,700
Norway—			
Fertilizer salts .. ..	21,420	22,321	24,669
Caustic potash and lyes ..	1,632	3,899	806
Carbonate .. ..	471	510	531
Nitrate .. ..	138	147	154
Poland—			
Fertilizer salts .. ..	88,808	108,476	21,893
Nitrate .. ..	284	491	412
Bicarbonate, including sodium bicarbonate .. ..	2,274	2,384	2,933
Carbonate .. ..	286	497	585
Caustic potash .. ..	247	283	146
Chlorate .. ..	20	40	59

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Portugal—			
Nitrate .. .. .	315	403	364
Chloride .. .. .	987	870	1,314
Sulphate .. .. .	228	403	1,255
Rumania—			
Fertilizer salts .. ..	(a)	(a)	432
Carbonate and bicarbonate	(a)	(a)	119
Chlorate .. .. .	(a)	(a)	13
Caustic potash .. ..	(a)	(a)	52
Russia (years ended Sept 30)—			
Fertilizer salts .. ..	4,446	6,645	763
Carbonate .. .. .	144	64	136
Spain (total imports)—			
Fertilizer salts .. ..	16,982	18,869	13,537
Carbonate .. .. .	331	306	341
Caustic potash and soda ..	371	334	431
Chlorate .. .. .	6	13	2
Permanganate .. .. .	17	11	15
Sweden—			
Fertilizer salts (20% K <sub>2</sub> O)	25,009	24,934	20,744
do. (12% K <sub>2</sub> O)	769	5,535	68,294
do. (other) ..	56,421	62,238	
Nitrate .. .. .	577	494	537
Carbonate .. .. .	1,712	1,654	(a)
Caustic potash .. .. .	3,161	2,531	(a)
Chloride .. .. .	7,495	8,799	6,678
Chlorate, including sodium chlorate .. .. .	662	434	(a)
Sulphate .. .. .	201	63	(a)
Switzerland—			
Fertilizer salts .. ..	20,798	22,432	26,557
Crude potash .. .. .	413	439	446
Crude nitrate .. .. .	2,111	1,888	1,781
Purified nitrate, including sodium nitrate .. ..	419	462	429
Caustic potash—			
Liquid, including caustic soda.. ..	346	355	286
Solid .. .. .	1,302	1,450	1,253
Chloride .. .. .	1,547	2,172	2,947

## IMPORTS OF POTASH (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Algeria—</b>			
Fertilizer salts .. ..	8,393	11,062	7,521
Carbonate .. ..	14	19	18
Caustic potash .. ..	8	20	25
Chlorate .. ..	120	58	(a)
Nitrate .. ..	44	114	97
Sulphate .. ..	3,916	4,192	1,771
<b>Egypt—</b>			
Bichromate, including sodium bichromate ..	427	388	283
<b>Morocco (French zone)—</b>			
Fertilizer salts .. ..	3,622	1,879	2,854
Carbonate .. ..	241	211	369
<b>Tunis—</b>			
Carbonate .. ..	8	9	14
Chloride .. ..	190	228	—
Nitrate .. ..	39	45	118
Sulphate .. ..	576	326	30
<b>Mexico—</b>			
Nitrate, including nitrate of soda .. ..	6,421	6,252	6,450
<b>United States—</b>			
Kainite .. ..	107,051	75,930	112,176
Chloride .. ..	227,668	229,980	268,960
Nitrate (total imports) ..	9,674	12,800	12,799
Carbonate, including crude	7,520	10,087	8,134
Caustic potash (b) .. ..	5,200	6,986	4,162
Chlorate and perchlorate ..	5,862	6,230	6,744
Cyanide (b) .. ..	52	61	41
Sulphate .. ..	86,212	79,480	86,254
<b>Argentina—</b>			
Bichromate .. ..	119	238	172
Nitrate .. ..	111	74	171
Carbonate .. ..	62	85	31
Caustic potash .. ..	45	17	26
Chlorate .. ..	54	28	32
Cyanide .. ..	58	52	44
Sulphate .. ..	357	4	10
<b>Brazil (total imports)—</b>			
Nitrate .. ..	6,130	5,105	1,362
Caustic potash .. ..	37	13	39
Potash and soda ash .. ..	12,012	9,417	9,556

(a) Information not available.

(b) Total imports.

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Bichromate .. .. .	45	78	47
Carbonate .. .. .	24	(a)	29
Nitrate, etc... .. .	25	13	14
Chlorate, etc. .. .. .	20	58	119
Caustic potash .. .. .	18	(a)	50
Colombia—			
Bicarbonate .. .. .	8	3	(a)
Bichromates of potash and soda .. .. .	374	414	(a)
Caustic potash .. .. .	19	7	(a)
Chlorate .. .. .	118	112	(a)
Nitrates of potash and soda	31	35	(a)
Peru—			
Nitrate, etc. .. .. .	1,328	1,276	(a)
Venezuela—			
Carbonate .. .. .	29	22	(a)
Nitrate .. .. .	—	63	(a)
China—			
Nitrate .. .. .	1,806	1,478	1,357
Formosa—			
Chloride .. .. .	—	542	(a)
Sulphate .. .. .	1,433	831	(a)
French Indo-China—			
Carbonate .. .. .	360	234	(a)
Chlorate .. .. .	424	146	(a)
Chloride .. .. .	118	668	(a)
Nitrate .. .. .	122	105	(a)
Sulphate .. .. .	189	648	(a)
Japan (total imports)—			
Bichromate .. .. .	446	237	329
Chlorate .. .. .	2,539	3,098	2,145
Netherlands East Indies—			
Fertilizer salts .. .. .	731	1,547	(a)
Nitrate .. .. .	90	227	(a)
Caustic potash .. .. .	52	50	(a)

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Japan ( <i>Cont.</i> )—			
Chloride .. .. .	21,750	27,155	23,534
Cyanide, including sodium cyanide .. .. .	618	533	596
Sulphate .. .. .	34,799	53,347	66,745
Philippine Islands—			
Chlorate .. .. .	39	29	11
Sulphate .. .. .	585	77	302
Syria and Lebanon—			
Caustic potash .. .. .	(a)	142	45
Chloride .. .. .	(a)	14	10
Turkey—			
Carbonate .. .. .	243	465	113
Caustic potash .. .. .	21	98	497

(a) Information not available.

## PYRITES.

PRODUCTION OF PYRITES  
(including Cupreous Pyrites).  
(Long tons)

Producing Country.	1928	1929	1930	Estimated Sulphur Content.		
				1928	1929	1930
<b>BRITISH EMPIRE</b>						
United Kingdom	4,370	4,371	5,497	(a)	(a)	(a)
Union of South Africa .. ..	3,695	4,051	3,547	(a)	(a)	(a)
Canada .. ..	61,461	68,980	(a)	34,454	38,197	33,688
Cyprus .. ..	243,935	292,430	257,028	121,968	144,055	128,692
India .. ..	—	294	—	—	(a)	—
<b>Total ..</b>	<b>313,000</b>	<b>370,000</b>	<b>330,000</b>			
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	9,842	—	—	1,968	—	—
Czechoslovakia .. ..	23,253	22,642	23,253	9,185	8,943	9,185
France .. ..	195,320	191,359	194,536	90,222	88,000	89,900
Germany .. ..	336,775	346,351	285,165	143,562	147,614	122,163
Greece .. ..	92,781	131,292	160,000	44,643	62,941	69,078
Hungary .. ..	4,155	1,007	1,052	(a)	(a)	(a)
Italy .. ..	549,571	654,047	705,942	252,630	301,017	309,838
Jugoslavia .. ..	63,258	60,686	49,550	(a)	(a)	(a)
Norway .. ..	726,871	727,916	719,407	316,551	319,144	318,965
Poland .. ..	10,500	9,261	(a)	(a)	(a)	(a)
Portugal .. ..	238,298	378,279	393,902	120,000	190,000	200,000
Rumania .. ..	23,340	23,474	23,881	9,000	10,000	10,000
Russia (years ended Sept. 30) .. ..	149,640	(a)	237,900	(a)	(a)	(a)
Spain .. ..	3,567,570	3,806,172	3,670,122	1,547,000	1,786,000	1,650,000
Sweden .. ..	19,680	70,917	59,486	12,198	31,575	(a)
Algeria .. ..	13,607	16,539	16,365	6,295	7,608	7,364
United States (b) .. ..	312,815	333,465	347,512	(a)	(a)	(a)
Japan .. ..	584,591	608,971	552,532	(a)	(a)	(a)
<b>Total ..</b>	<b>6,900,000</b>	<b>7,500,000</b>	<b>7,500,000</b>			
<b>WORLD'S TOTAL</b>	<b>7,200,000</b>	<b>7,900,000</b>	<b>7,800,000</b>			

(a) Information not available.

(b) Includes pyrites concentrates from Tennessee and partly desulphurized tailings from zinc operations in Wisconsin.

EXPORTS OF PYRITES  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom— Iron-pyrites and cupreous pyrites .. .. .	8,551	10,058	28,533
Canada— Pyrites ( <i>S content</i> ) .. ..	28,211	28,560	23,743
Cyprus— Cupreous pyrites .. ..	240,060	291,100	238,488
<b>FOREIGN COUNTRIES</b>			
Austria— Iron-pyrites .. .. .	48	117	4
Czechoslovakia— Pyrites .. .. .	—	384	159
France— Iron-pyrites.. .. .	4,997	2,234	402
Germany— Pyrites, etc... .. .	36,283	46,042	42,218
Greece— Iron-pyrites .. .. .	78,343	95,380	109,222
Italy— Iron-pyrites .. .. .	185,809	226,975	241,596
Jugoslavia .. .. .	56,608	57,688	30,380
Netherlands— Iron-pyrites .. .. .	6,110	6,754	3,900
Norway— Iron-pyrites.. .. . Cupreous pyrites .. .. .	205,101 430,910	201,020 445,143	208,722 420,718
Poland— Iron-pyrites.. .. .	7,616	8,656	4,133

EXPORTS OF PYRITES (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Portugal—			
Copper ore and cupreous pyrites .. .. .	220,333	284,852	352,687
Rumania .. .. .	14,910	(a)	908
Spain (including re-exports)—			
Iron-pyrites. . . . .	1,645,741	1,781,281	1,949,050
Cupreous pyrites, containing not more than 2½ % Cu ..	845,520	895,721	755,358
Copper ore and cupreous pyrites, containing more than 2½ % Cu .. .. .	29	1,773	2,700

(a) Information not available.



## IMPORTS OF PYRITES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Iron and cupreous pyrites	300,723	334,675	330,662
Irish Free State .. ..	32,011	35,909	32,903
Union of South Africa—			
Iron-pyrites.. ..	—	11,656	6,322
British India (total imports)—			
Cupreous pyrites .. ..	7	5,597	2
<b>FOREIGN COUNTRIES</b>			
Austria—			
Iron-pyrites.. ..	57,755	70,838	60,381
Czechoslovakia .. ..	208,139	218,338	205,875
Denmark .. ..	76,559	70,737	105,995
France—			
Iron-pyrites.. ..	811,551	907,998	833,265
Germany—			
Pyrites, etc. .. ..	1,067,213	1,151,841	944,434
Hungary .. ..	50,794	69,500	33,252
Italy—			
Iron-pyrites.. ..	126,449	182,299	204,111
Cupreous pyrites .. ..	10,313	—	—
Jugoslavia .. ..	9,500	26,216	15,903
Latvia .. ..	16,515	8,786	14,925
Netherlands—			
Iron-pyrites.. ..	137,983	153,787	263,945
Norway .. ..	1,023	—	30
Poland—			
Iron-pyrites.. ..	20,018	79,676	56,630
Rumania .. ..	(a)	(a)	2,995
Sweden—			
Pyrites .. ..	166,597	170,488	183,604
United States .. ..	458,264	514,336	368,114

(a) Information not available.

## QUICKSILVER

### PRODUCTION OF QUICKSILVER

(Lb. avdp.)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE.</b>			
New Zealand .. ..	—	—	4,032
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	14,550	10,041	6,217
Czechoslovakia .. ..	158,576	144,282	156,570
Italy .. .. .	4,383,495	4,405,431	4,261,281
Russia (years ended Sept. 30) .. .. .	224,871	286,600	250,000
Spain .. .. .	4,839,413	5,457,752	4,400,000
Algeria .. .. .	—	10,415	49
Mexico .. .. .	192,726	182,181	366,499
United States .. .. .	1,358,100	1,799,800	1,638,000
China (estimated) .. ..	150,000	150,000	150,000
Japan .. .. .	1,017	3,185	9,208
Korea .. .. .	—	718	1,946
Turkey .. .. .	9,450	17,925	40,875
<b>WORLD'S TOTAL</b>	<b>11,300,000</b>	<b>12,500,000</b>	<b>11,300,000</b>

## EXPORTS OF QUICKSILVER, ETC.

*(Domestic Produce)*

(Lb. avdp.)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Quicksilver .. .. .	32,712	20,169	10,027
British Malaya (including re- exports)—			
Quicksilver .. .. .	349	377	291
Australia (including re-exports)			
Quicksilver .. .. .	—	—	300
New Zealand—			
Quicksilver .. .. .	—	—	4,050
<b>FOREIGN COUNTRIES</b>			
Austria—			
Quicksilver .. .. .	4,400	5,730	6,200
Belgium-Luxemburg E. U.—			
Quicksilver .. .. .	32,800	54,700	35,700
Sulphide of mercury ..	1,300	10,500	900
Czechoslovakia—			
Quicksilver .. .. .	70,989	32,849	57,100
France—			
Quicksilver .. .. .	6,834	4,410	6,160
Mercury salts .. .. .	7,300	13,346	15,900
Germany—			
Cinnabar .. .. .	115,000	77,500	80,300
Quicksilver and amalgam ..	104,000	240,800	94,500
Mercury salts .. .. .	339,200	356,000	151,600
Italy—			
Quicksilver .. .. .	4,686,800	1,226,400	1,532,200
Chloride of mercury ..	65,100	212,400	259,500
Sulphide of mercury ..	54,400	83,300	20,000
Other mercury salts ..	23,000	23,200	28,000
Netherlands—			
Quicksilver and amalgam ..	4,000	7,500	11,268
Spain (including re-exports)—			
Quicksilver .. .. .	3,614,800	1,916,900	1,339,100
Mercury salts .. .. .	1,058	2,420	29,381
Switzerland—			
Quicksilver .. .. .	220	4,269	670
Algeria—			
Quicksilver .. .. .	400	1,100	(a)
Bolivia—			
Quicksilver .. .. .	3,470	3,830	(a)
Mexico—			
Quicksilver .. .. .	192,726	182,181	361,840
Turkey—			
Quicksilver .. .. .	5,200	13,100	40,669

(a) Information not available.

## IMPORTS OF QUICKSILVER, ETC.

*(Less Re-exports)*

(Lb. avdp.)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Quicksilver .. .. .	2,054,809	306,534	944,138
Southern Rhodesia—			
Quicksilver .. .. .			
Union of South Africa—			
Quicksilver .. .. .	51,074	76,745	55,100
Canada—			
Quicksilver .. .. .	199,603	346,701	105,755
Mercury salts .. .. .	(£4,091)	(£3,050)	(£2,417)
British India (total imports)—			
Quicksilver .. .. .	243,708	204,936	186,642
British Malaya (total imports)—			
Quicksilver .. .. .	4,777	5,116	5,839
Australia—			
Quicksilver .. .. .	22,200	26,100	20,400
Mercury salts .. .. .	1,700	800	1,200
New Zealand—			
Quicksilver .. .. .	2,180	2,212	2,965
FOREIGN COUNTRIES			
Austria—			
Quicksilver .. .. .	127,200	45,900	29,800
Belgium-Luxemburg E.U.—			
Quicksilver .. .. .	360,600	277,500	149,500
Sulphide of mercury .. .. .	9,700	7,100	4,400
Bulgaria—			
Quicksilver .. .. .	2,665	1,858	(a)
Czechoslovakia—			
Quicksilver .. .. .	73,855	112,656	22,267
Denmark—			
Quicksilver .. .. .	3,300	4,600	2,900
Estonia—			
Quicksilver .. .. .	1,069	900	1,041
Mercury salts .. .. .	1,136	977	1,014
Finland—			
Cinnabar .. .. .	19,400	13,200	3,969
Quicksilver and amalgam .. .. .	4,400	3,000	3,918

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
France—			
Quicksilver .. .. .	445,500	400,800	387,300
Mercury salts .. .. .	154,600	99,400	95,900
Germany—			
Cinnabar .. .. .	2,700	1,800	1,300
Quicksilver and amalgam ..	2,927,900	767,000	769,400
Mercury salts .. .. .	146,400	116,400	192,400
Greece—			
Quicksilver .. .. .	2,900	5,600	5,800
Hungary—			
Quicksilver .. .. .	8,800	(a)	(a)
Mercury sulphide .. .. .	2,900	3,500	1,100
Italy—			
Quicksilver .. .. .	700	900	200
Mercury salts .. .. .	4,800	5,500	5,000
Jugoslavia—			
Quicksilver and amalgam ..	10,100	6,700	16,000
Mercury salts .. .. .	15,900	15,300	10,200
Latvia—			
Quicksilver .. .. .	1,600	2,000	1,650
Mercury salts .. .. .	2,100	1,300	2,750
Lithuania—			
Quicksilver .. .. .	700	900	1,100
Netherlands—			
Quicksilver and amalgam ..	16,200	34,000	30,065
Poland—			
Quicksilver .. .. .	45,200	46,300	48,300
Mercury salts .. .. .	28,900	26,900	22,900
Portugal—			
Quicksilver .. .. .	17,400	16,600	13,900
Mercury salts .. .. .	3,400	3,600	3,100
Rumania—			
Quicksilver .. .. .	(a)	(a)	15,800
Mercury salts .. .. .	(a)	(a)	17,500
Russia (years ended Sept. 30)			
Quicksilver .. .. .	15,500	28,900	44,000
Spain (total imports)—			
Quicksilver .. .. .	1,760	220	220
Mercury salts .. .. .	3,945	2,114	2,867
Sweden—			
Quicksilver and amalgam ..	31,000	54,300	43,760
Switzerland—			
Quicksilver .. .. .	86,800	77,700	90,300
Egypt—			
Quicksilver .. .. .	2,004	1,021	2,599

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Morocco (French zone)—			
Quicksilver .. ..	—	2,400	110
Costa Rica (total imports)—			
Quicksilver .. ..	592	1,537	(a)
Cuba—			
Quicksilver .. ..	4,700	2,830	(a)
United States—			
Quicksilver .. ..	1,168,748	1,086,221	223,686
Argentina—			
Quicksilver .. ..	16,012	20,082	12,985
Mercury salts .. ..	18,287	12,390	9,806
Brazil (total imports)—			
Quicksilver .. ..	11,500	9,000	9,385
Chile—			
Cinnabar .. ..	3,900	—	—
Quicksilver .. ..	3,200	3,600	4,447
Mercury salts .. ..	4,000	3,300	3,968
Colombia—			
Quicksilver .. ..	4,742	6,135	(a)
Mercury salts .. ..	17,339	9,341	(a)
Ecuador—			
Quicksilver .. ..	3,026	4,744	374
Mercury salts .. ..	521	201	1,729
Peru—			
Quicksilver .. ..	3,000	4,400	(a)
Mercury salts .. ..	900	1,100	(a)
China—			
Cinnabar .. ..	105,600	84,500	46,000
French Indo-China—			
Quicksilver .. ..	4,000	2,700	(a)
Mercury salts .. ..	38,200	35,300	(a)
Formosa—			
Vermilion and cinnabar ..	12,700	11,800	(a)
Quicksilver .. ..	1,900	3,100	(a)
Japan (total imports)—			
Quicksilver .. ..	677,400	712,500	544,900
Korea—			
Quicksilver .. ..	32,530	26,990	28,900
Netherlands East Indies—			
Quicksilver .. ..	14,535	12,815	(a)
Syria and Lebanon—			
Quicksilver .. ..	(a)	3,234	381
Turkey—			
Quicksilver .. ..	2,200	4,000	712
Mercury salts .. ..	17,600	25,800	14,290

(a) Information not available.

## SALT

## PRODUCTION OF SALT

(Long tons)

Producing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Rock-salt .. .. .	31,349	36,159	25,023
Brine-salt .. .. .	1,914,969	1,938,011	2,042,541
Mauritius (estimated)—			
Sea-salt .. .. .	1,500	1,500	1,500
Nigeria (estimated) .. .. .	400	400	400
Somaliland (exports)—			
Sea-salt .. .. .	1,678	3,100	1,074
South West Africa .. .. .	144	334	(a)
Anglo-Egyptian Sudan .. .. .	12,284	14,715	14,082
Tanganyika Territory .. .. .	5,053	7,270	6,256
Uganda .. .. .	2,034	2,244	1,751
Union of South Africa (years ended June 30) .. .. .	82,412	87,453	(a)
Canada .. .. .	269,206	294,879	240,046
British West Indies (exports)—			
Sea-salt—			
Bahamas .. .. .	700	800	3,100
Grenada .. .. .	36	69	(a)
Leeward Islands .. .. .	1,561	1,289	1,517
Turks and Caicos Islands	50,043	61,153	41,541
Ceylon .. .. .	43,566	25,080	(a)
Cyprus (estimated) .. .. .	3,000	3,000	3,000
India (including Aden)—			
Rock-salt .. .. .	155,353	178,302	} 1,711,348
Salt .. .. .	1,359,996	1,530,798	
Palestine—			
Rock salt .. .. .	1,628	2,468	1,373
Sea salt .. .. .	(a)	5,150	6,006
Weihaiwei (estimated) .. .. .	2,000	2,000	2,000
Australia—			
Victoria .. .. .	51,357	(a)	(a)
Western Australia (estimated)	8,000	8,000	8,000
South Australia .. .. .	71,428	76,457	58,766
Total .. .. .	4,100,000	4,300,000	4,300,000

(a) Information not available.

## PRODUCTION OF SALT (Cont.)

Producing Country and Description	1928	1929	1930
FOREIGN COUNTRIES			
Albania .. .. .	5,200	(a)	(a)
Austria—			
Rock-salt .. .. .	1,581	2,992	1,046
Brine-salt .. .. .	149,808	172,671	154,086
Bulgaria—			
Rock-salt .. .. .	4,043	3,595	1,677
Other salt .. .. .	42,000	24,600	(a)
Czechoslovakia—			
Rock-salt .. .. .	141,796	158,387	169,548
Brine-salt .. .. .	10,011	5,346	5,338
France—			
Rock-salt and brine-salt ..	1,680,538	1,486,435	1,675,150
Sea-salt .. .. .	401,328	320,000	(a)
Germany—			
Rock-salt .. .. .	2,361,770	2,501,350	2,416,822
Brine-salt .. .. .	501,614	493,111	493,341
Greece—			
Sea-salt (estimated) (e) ..	100,000	100,000	100,000
Italy—			
Rock-salt .. .. .	66,126	62,043	71,939
Brine-salt .. .. .	270,171	280,326	254,819
Sea-salt .. .. .	552,824	553,701	509,578
Jugoslavia .. .. .	51,305	43,900	53,773
Netherlands (sales) .. .. .	40,815	44,205	49,020
Poland—			
Rock-salt .. .. .	261,832	} 560,494	525,000
Evaporated salt .. .. .	128,680		
Brine-salt .. .. .	169,825		
Portugal—			
Rock-salt .. .. .	31	28	—
Rumania—			
Rock-salt .. .. .	334,839	313,767	299,963
Sea salt .. .. .	2,526	2,655	2,121
Russia (years ended Sept. 30)			
Rock-salt .. .. .	921,836	} 2,579,000	3,378,000
Brine-salt .. .. .	364,347		
Evaporated salt .. .. .	345,237		
Lake-salt .. .. .	1,130,008		
Spain—			
Rock-salt .. .. .	143,839	162,234	(a)
Brine-salt and sea-salt ..	823,694	900,193	(a)
Switzerland .. .. .	78,719	85,110	79,554
Algeria—			
Rock-salt and sea-salt ..	10,802	15,063	57,520
Abyssinia (estimated) .. ..	20,000	10,000	(a)
Angola (estimated) .. .. .	10,000	10,000	10,000
Belgian Congo (estimated) ..	80	80	80
Egypt (exports) .. .. .	165,222	146,669	152,406
Canary Islands (estimated) ..	2,000	2,000	2,000



## PRODUCTION OF SALT (Cont.)

Producing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
French Morocco .. ..	8,000	(a)	(a)
French Somaliland .. ..	28,272	38,356	(a)
French West Africa (Mauri- tania) .. ..	4,000	4,000	4,000
Italian East Africa (estimated)	100,000	100,000	100,000
Tripoli (estimated) .. ..	20,000	20,000	20,000
Tunis .. ..	103,100	120,000	(a)
Mexico (estimated) .. ..	66,000	66,000	66,000
Netherlands West Indies (exports) .. ..	9,624	4,603	(a)
Panama (estimated) Crude salt .. ..	50,000	50,000	50,000
United States—			
Rock-salt .. ..	1,980,161	1,886,616	1,765,509
Brine-salt .. ..	3,059,705	3,468,000	3,320,054
Evaporated salt .. ..	2,169,688	2,273,563	2,105,902
Argentina .. ..	164,970	194,675	142,309
Chile .. ..	34,197	36,831	(a)
Colombia (estimated) .. ..	29,000	29,000	29,000
Ecuador—			
Rock-salt .. ..	328	68	(a)
Other salt .. ..	9,892	17,103	(a)
Peru .. ..	32,222	30,000	(a)
Venezuela (estimated) .. ..	30,000	30,000	30,000
China, including Kwantung			
Peninsula .. ..	2,400,570	2,408,019	2,562,500
Formosa .. ..	116,513	161,761	(a)
French Indo-China .. ..	158,700	251,100	(a)
Japan (c) .. ..	627,813	633,977	(a)
Korea .. ..	132,391	136,000	(a)
Netherlands East Indies—			
Government production .. ..	249,164	479,217	(a)
Native production .. ..	26,743	26,769	(a)
Philippine Islands—			
Brine-salt and sea-salt .. ..	70,346	46,136	(a)
Portuguese India (estimated)	12,000	12,000	12,000
Siam—			
Brine-salt .. ..	25,039	(d) 22,529	(d) 22,601
Sea-salt .. ..	92,408	(d) 151,744	(d) 155,543
Turkey (Anatolia) (estimated)	100,000	100,000	100,000
Total .. ..	23,000,000	24,000,000	25,000,000
WORLD'S TOTAL	27,000,000	28,000,000	29,000,000

(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.

(d) Years ended March 31 following that stated.

(e) Estimated on previous years figures.

## EXPORTS OF SALT

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Table-salt .. .. .	5,479	5,729	5,186
Other salt .. .. .	332,191	346,147	303,079
Anglo-Egyptian Sudan ..	2,855	4,512	3,043
Gold Coast .. .. .	—	185	114
Northern Rhodesia—			
Common salt and refined salt	15	30	9
Southern Rhodesia—			
Common salt and refined salt	659	611	(a)
Somaliland—			
Sea-salt .. .. .	1,678	3,100	1,074
Tanganyika Territory ..	2,754	2,999	3,046
Union of South Africa ..	7,458	8,012	7,148
Canada .. .. .	2,616	8,357	7,820
British West Indies—			
Bahamas (c) .. .. .	714	786	3,143
Grenada .. .. .	36	69	(a)
Leeward Islands (b) ..	1,561	1,289	(a)
Turks and Caicos Islands (c)	50,043	61,153	41,541
Aden (including re-exports) ..	206,765	220,790	206,215
British India (including re-exports) .. .. .	88,478	71,899	70,454
British Malaya (including re-exports) .. .. .	20,463	12,826	15,333
Australia (including re-exports)—			
Rock-salt .. .. .	29	89	46
Refined salt ( <i>£ Australian</i> )	(£658)	(£607)	(£564)
Other salt .. .. .	4,233	7,991	6,139
FOREIGN COUNTRIES			
Austria .. .. .	37	13	159
Belgium-Luxemburg E.U.—			
Common salt .. .. .	636	477	340
Refined salt .. .. .	302	457	410
Czechoslovakia—			
Refined salt, etc. .. .. .	4	8	18

## EXPORTS OF SALT (Cont.)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Refined salt, etc. .. ..	24	13	(a)
France .. .. .	215,412	160,413	146,097
Germany—			
Rock-salt, sea-salt, etc. ..	866,192	954,499	973,800
Italy—			
Rock-salt and sea-salt ..	93,507	120,430	85,980
Jugoslavia—			
Common salt and sea-salt..	30	11	—
Netherlands—			
Rock-salt .. .. .	40	—	—
Sea-salt .. .. .	31	16	24
Refined salt and waste ..	15,254	17,858	20,224
Norway .. .. .	14	10	16
Poland—			
Refined salt .. .. .	33,999	35,206	26,084
Other salt .. .. .	2,060	2,892	6,432
Portugal .. .. .	46,038	15,075	26,806
Rumania .. .. .	69,485	(a)	39,203
Russia (years ended Sept. 30)..	37,544	100,448	66,656
Spain (including re-exports)—			
Common salt .. .. .	586,618	533,832	588,719
Sweden—			
Sea-salt .. .. .	987	781	} 1,931
Refined salt .. .. .	76	233	
Algeria .. .. .	16,451	9,623	8,401
Angola.. .. .	3,069	(a)	(a)
Belgian Congo.. .. .	670	619	(a)
Dahomey—			
Rock-salt .. .. .	117	149	40
Egypt—			
Common salt .. .. .	165,222	146,669	152,406
French Guinea.. .. .	7	41	36

(a) Information not available.

(b) Including inter-presidency trade.

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

## EXPORTS OF SALT (Cont.)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
French Somaliland .. ..	28,272	38,356	24,968
Madagascar—			
Sea-salt .. .. .	1,535	864	1,186
Mozambique .. .. .	1,895	1,728	(a)
Senegal—			
Rock-salt .. .. .	158	126	267
Tunis (including re-exports)—			
Rock-salt and sea-salt ..	103,170	50,492	72,451
Mexico .. .. .	2,488	7	(a)
United States .. .. .	129,818	97,519	62,927
Argentina—			
Common salt .. .. .	1,200	460	160
Refined salt .. .. .	15	23	115
Brazil .. .. .	59	20	15
Chile—			
Common salt .. .. .	63	87	47
Refined salt .. .. .	2	9	53
Peru .. .. .	1,000	3	(a)
Venezuela—			
Sea-salt .. .. .	828	1,160	(a)
China—			
Common salt .. .. .	279,174	337,546	290,248
Refined salt .. .. .	34,029	50,178	46,252
Formosa .. .. .	45,295	72,507	(a)
French Indo-China—			
Sea-salt .. .. .	35,250	25,231	41,800
Japan .. .. .	28	15	46
Persia (including re-exports)			
(d)—			
Common salt .. .. .	938	991	846
Refined salt .. .. .	23	22	14
Philippine Islands .. .. .	26	31	29
Siam (including re-exports) ..	59,694	47,366	49,943
Turkey .. .. .	3,304	13,430	(a)

(a) Information not available.

(d) Years ended March 21.

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

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Refined salt.. ..	807	1,087	1,398
Other salt .. ..	94,949	92,210	92,211
Irish Free State—			
Refined salt.. ..	2,661	2,427	2,249
Other salt .. ..	33,491	27,100	26,561
Anglo-Egyptian Sudan ..	175	196	261
Gambia.. ..	2,527	1,439	1,158
Gold Coast—			
Refined salt.. ..	18	19	18
Other salt .. ..	5,523	6,931	7,319
Kenya and Uganda .. ..	8,436	9,100	8,670
Mauritius .. ..	781	1,602	485
Nigeria .. ..	53,307	52,436	58,447
Nyasaland .. ..	2,320	3,713	2,861
Northern Rhodesia—			
Common salt and refined salt	1,233	1,775	1,093
Southern Rhodesia—			
Common salt and refined salt	5,847	5,590	5,056
Seychelles .. ..	466	167	69
Sierra Leone—			
Refined salt.. ..	2	2	1
Other salt .. ..	5,832	5,418	4,949
South West Africa .. ..	995	1,472	1,617
Tanganyika Territory ..	2,593	1,777	1,762
Union of South Africa—			
Rock-salt .. ..	1,816	2,687	2,289
Common salt and refined salt	1,642	2,189	2,961
Zanzibar .. ..	1,368	1,205	753

IMPORTS OF SALT (*Cont.*)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE ( <i>Cont.</i> )			
Canada (total imports)—			
Salt for use of fisheries ..	66,243	73,687	50,120
Refined salt .. .. .	427	218	62
Other salt .. .. .	102,103	83,742	64,449
Newfoundland (total imports, year ended June 30)—			
Salt in bulk .. .. .	62,495	56,370	42,719
Refined salt .. .. .	(£1,937)	(£2,822)	(£2,561)
British Honduras .. .. .	620	422	(a)
British West Indies—			
Barbados—			
Common salt .. .. .	2,367	2,172	} 2,050
Refined salt .. .. .	(£16)	(£13)	
Bermuda .. .. .	(£1,314)	(£1,105)	3,627
Grenada .. .. .	828	681	471
Jamaica—			
Rock-salt .. .. .	300	267	206
Other salt .. .. .	8,262	7,249	5,119
Leeward Islands (b) ..	(£689)	(£676)	(£3,339)
St. Lucia—			
Common salt .. .. .	433	386	621
Refined salt .. .. .	15	9	—
St. Vincent—			
Rock-salt .. .. .	488	217	426
Refined salt .. .. .	23	15	10
Trinidad and Tobago (total imports)—			
Rock-salt .. .. .	667	746	453
Refined salt, etc... ..	2,764	2,236	2,405
British Guiana—			
Rock-salt .. .. .	386	648	198
Refined salt, etc. .. .. .	1,013	1,325	1,577
Aden (total imports) .. ..	107	5	3
British Borneo—			
Brunei .. .. .	130	148	148
Sarawak .. .. .	3,165	3,121	3,049
State of North Borneo ..	1,710	2,004	2,106

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE (Cont.)			
British India (total imports) ..	614,297	607,277	688,629
British Malaya (total imports)	66,547	62,533	75,664
Ceylon—			
Refined salt .. .. .	44	39	43
Other salt .. .. .	12,019	1,237	25
Cyprus—			
Refined salt .. .. .	7	6	6
Palestine (total imports) ..	830	70	41
Australia—			
Rock-salt .. .. .	4,792	5,377	418
Refined salt .. .. .	1,082	1,328	1,078
Other salt .. .. .	4,355	6,444	4,661
Fiji .. .. .	779	717	506
New Zealand—			
Rock-salt (c) .. .. .	1,267	1,490	902
Other salt (c) .. .. .	32,474	27,471	35,264
Solomon Islands .. .. .	8	9	11
Western Samoa .. .. .	(£330)	(£412)	(a)
FOREIGN COUNTRIES			
Austria .. .. .	6,528	6,531	6,372
Belgium-Luxemburg E.U.—			
Common salt .. .. .	252,245	217,737	217,743
Refined salt .. .. .	58,160	62,752	65,977
Bulgaria—			
Rock-salt .. .. .	26,110	20,264	(a)
Czechoslovakia—			
Common salt .. .. .	135,577	160,932	164,920
Refined salt .. .. .	6	12	108
Denmark—			
Rock-salt .. .. .	4,974	6,724	7,738
Refined salt, etc. .. .. .	76,025	80,089	83,744

(a) Information not available.

(b) Including inter-presidency trade.

(c) Total imports. Re-exports of salt of all kinds were 15, 17 and 13 tons in years 1928, 1929 and 1930 respectively.

IMPORTS OF SALT (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Estonia .. .. .	25,278	22,175	21,896
Finland— Common salt .. ..	78,729	72,457	71,471
France .. .. .	59,162	61,364	73,359
Germany— Rock-salt, sea-salt, etc. ..	24,231	27,650	28,125
Hungary .. .. .	85,502	81,476	86,945
Iceland— Common salt .. ..	95,395	} 102,300	(a)
Refined salt.. .. .	143		
Italy— Rock-salt and sea-salt ..	51,454	42,804	37,176
Jugoslavia— Rock-salt .. .. .	39,088	35,934	30,092
Sea-salt .. .. .	28,829	31,018	28,904
Latvia— Rock-salt .. .. .	24,123	24,410	13,085
Common salt .. ..	12,122	11,703	11,639
Sea-salt .. .. .	490	—	1,037
Refined salt.. .. .	(a)	4	—
Lithuania— Crude salt .. .. .	198	178	336
Refined salt.. .. .	25,732	30,064	29,989
Netherlands— Rock-salt .. .. .	93,153	97,538	92,750
Sea-salt, etc. .. ..	25,406	24,271	30,198
Refined salt and waste ..	5,894	3,918	3,972
Norway— Rock-salt .. .. .	41,200	52,900	61,396
Common salt .. ..	165,700	163,600	192,937
Poland— Refined salt.. .. .	2,197	2,299	1,928
Other salt .. .. .	34	—	15
Portugal .. .. .	52	87	46
Spain (total imports)— Common salt .. ..	13	—	4



## IMPORTS OF SALT (Cont.)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Sweden—			
Rock-salt .. .. .	52,058	65,629	147,352
Sea-salt .. .. .	31,087	30,169	(a)
Refined salt.. .. .	41,167	45,975	(a)
Switzerland—			
Rock-salt .. .. .	6	502	1,510
Other salt .. .. .	6,250	1,471	2,881
Algeria.. .. .	13,696	24,243	19,497
Angola .. .. .	22	(a)	(a)
Belgian Congo.. .. .	6,789	10,783	(a)
Cameroon (French) .. .. .	5,208	5,431	5,546
Dahomey—			
Sea-salt and rock-salt .. .. .	3,904	4,030	3,009
Egypt—			
Common salt .. .. .	155	67	101
French Equatorial Africa—			
Rock salt .. .. .	65	153	259
Refined salt.. .. .	1,894	1,696	2,688
French Guinea .. .. .	5,554	3,687	2,831
French Sudan .. .. .	2,327	861	846
Ivory Coast—			
Rock-salt and sea-salt .. .. .	4,518	6,013	6,593
Madagascar .. .. .	326	289	(a)
Morocco—			
Sea-salt and rock-salt .. .. .	11,637	8,055	5,975
Mozambique .. .. .	514	2,596	(a)
Senegal—			
Rock-salt and sea-salt .. .. .	2,451	1,441	2,117
Costa Rica (total imports) .. .. .	230	179	(a)
Cuba (total imports) .. .. .	18,215	10,777	(a)
Guatemala—			
Common salt .. .. .	1,550	2,139	(a)
Refined salt.. .. .	51	153	(a)

(a) Information not available.

## IMPORTS OF SALT (Cont.)

Importing Country and Description.	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Mexico .. .. .	6,912	6,075	5,734
Nicaragua (total imports) ..	338	321	(a)
Panama .. .. .	649	907	(a)
United States .. .. .	37,522	40,926	48,451
Argentina—			
Rock-salt .. .. .	2,187	1,471	1,470
Sea-salt .. .. .	40,900	27,100	24,500
Refined salt .. .. .	8,826	5,592	8,276
Bolivia—			
Common salt .. .. .	398	450	(a)
Refined salt .. .. .	4	6	(a)
Brazil (total imports) .. ..	72,699	42,780	47,843
Chile—			
Common salt .. .. .	22	43	28
Refined salt .. .. .	141	88	98
Colombia .. .. .	1,631	1,070	(a)
Peru .. .. .	62	497	(a)
Uruguay—			
Sea-salt .. .. .	52,759	21,418	(a)
Japan (total imports) .. ..	223,690	282,081	302,279
Korea .. .. .	160,175	134,088	131,375
Persia (total imports) (d)—			
Common salt .. .. .	6,852	6,275	5,504
Refined salt .. .. .	30	201	6
Philippine Islands .. .. .	236	206	232
Netherlands East Indies—			
Refined salt .. .. .	379	411	(a)
Other salt .. .. .	18,280	10,659	(a)
New Caledonia .. .. .	566	531	689
Syria and Lebanon—			
Refined salt .. .. .	(a)	4,671	2,674
Other salt .. .. .	(a)	556	1,700

(a) Information not available.

(d) Years ended March 21.

## SILVER

## PRODUCTION OF SILVER ORE

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

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	32,775	35,989	40,955
Bechuanaland Protectorate	157	148	434
Gold Coast (estimated) ..	5,000	7,500	8,200
Kenya .. ..	113	131	155
Nigeria (estimated) ..	2,800	6,400	50,500
Northern Rhodesia ..	88	2,249	637
Southern Rhodesia ..	103,802	87,233	72,720
South West Africa ( <i>d</i> ) ..	728,000	892,000	1,003,415
Tanganyika Territory ..	1,562	1,027	1,278
Union of South Africa ..	1,031,376	1,031,779	1,050,038
Canada .. ..	21,936,407	23,143,261	26,443,823
British Guiana (estimated)	700	820	780
India .. ..	7,425,810	7,298,327	7,072,050
Federated Malay States (estimated) .. ..	1,650	2,360	2,600
Australia .. ..	9,593,876	10,071,069	10,075,002
New Zealand ( <i>b</i> ) .. ..	444,486	415,706	565,860
Total ..	41,300,000	43,000,000	46,300,000
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	49,678	38,387	30,446
Czechoslovakia .. ..	1,103,003	1,302,274	1,469,004
France .. ..	735,303	( <i>a</i> )	( <i>a</i> )
Germany .. ..	5,220,839	5,512,664	5,485,433
Greece .. ..	262,530	171,130	( <i>a</i> )
Italy .. ..	766,282	598,717	506,301
Jugoslavia .. ..	61,100	80,000	77,000
Norway .. ..	381,376	281,865	401,334
Poland .. ..	223,025	376,702	( <i>a</i> )
Rumania .. ..	73,270	90,727	142,039
Russia (years ended Sept.30)	623,389	( <i>a</i> )	( <i>a</i> )
Spain .. ..	2,526,443	2,659,223	2,300,000
Sweden .. ..	68,447	145,736	( <i>a</i> )

*(a)* Information not available.*(b)* Silver content of exports, excluding jewellers' sweepings.*(d)* Years ended March 31 of the year following that stated.

## PRODUCTION OF SILVER ORE (Cont.)

Producing Country	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Algeria .. .. .	124,517	130,625	129,042
Morocco (French zone) .. .. .	57,870	52,179	(a)
Mozambique .. .. .	—	—	28
Tunis .. .. .	220,742	202,545	(a)
Mexico .. .. .	108,537,307	108,700,372	105,204,059
United States .. .. .	57,872,443	61,233,321	50,627,243
Costa Rica (c) .. .. .	108,246	1,117	(a)
Guaatemala (c) .. .. .	281	—	(a)
Honduras .. .. .	2,275,103	2,466,095	(a)
Panama (c) .. .. .	2,261	301,365	(a)
Salvador (c) .. .. .	875	—	(a)
Argentina (b) .. .. .	15,000	15,000	(a)
Bolivia (exports) .. .. .	5,638,756	6,214,531	(a)
Brazil (b) .. .. .	25,591	21,026	(a)
Chile .. .. .	1,443,784	1,570,293	(a)
Colombia .. .. .	48,634	52,269	(a)
Ecuador (b) .. .. .	79,804	96,511	90,000
Guiana (French and Dutch) (b) .. .. .	7,000	7,000	(a)
Peru .. .. .	23,805,017	21,495,168	14,372,593
Venezuela (b) .. .. .	4,000	4,000	4,000
China (b) .. .. .	100,000	50,000	(a)
Formosa .. .. .	11,748	11,796	(a)
French Indo-China .. .. .	9,131	3,167	(a)
Japan .. .. .	5,144,763	5,163,434	5,628,306
Korea .. .. .	56,082	54,724	(a)
Netherlands East Indies.. .. .	2,031,967	1,991,033	(a)
Turkey (b) .. .. .	220,000	220,000	(a)
Philippine Islands .. .. .	37,427	94,547	120,884
<b>Total .. .. .</b>	<b>220,000,000</b>	<b>222,000,000</b>	<b>200,000,000</b>
<b>WORLD'S TOTAL</b>	<b>261,000,000</b>	<b>265,000,000</b>	<b>250,000,000</b>

(a) Information not available.

(b) U.S. mint estimates.

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

## EXPORTS OF SILVER\*

*(In terms of metal)*

(Fine troy ounces)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom (including re-exports)—			
Unrefined bullion ..	—	6,000,000	7,000,000
Refined bullion ..	69,159,000	70,483,000	77,262,000
Southern Rhodesia—			
Concentrates .. ..	16,000	23,000	21,000
Bullion .. ..	86,000	69,000	52,400
Union of South Africa—			
Concentrates .. ..	14,000	5,000	42,000
Silver in pig-lead ..	—	1,000	600
Bullion .. ..	1,065,000	739,000	881,000
Canada—			
Ore, concentrates, etc.	6,816,000	7,058,000	8,473,000
Bullion .. ..	14,800,000	14,800,000	15,800,000
British India (including re-exports)—			
Bullion .. ..	31,500,000	20,400,000	22,700,000
British Malaya (including re-exports)—			
Bullion .. ..	478,000	467,000	796,000
Australia (years ended June 30)—			
Ores, concentrates and matte .. ..	3,170,000	1,742,000	1,522,000
Bullion .. ..	7,455,000	7,741,000	8,900,000
New Zealand—			
Concentrates, sweepings, etc. .. ..	3,500	550	8,000
Bullion .. ..	370,000	380,000	558,000
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. ..	714,000	386,000	479,000

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

EXPORTS OF SILVER (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Belgium-Luxemburg E.U. Bullion, etc. .. ..	3,128,000	2,848,000	2,170,000
Czechoslovakia— Bullion .. ..	1,485,000	143,000	56,000
Denmark— Bullion .. ..	10,000	157,000	45,000
France— Bullion .. .. Beaten, rolled or drawn	11,159,000 954,000	6,611,000 270,000	16,740,000 485,000
Germany— Bullion .. ..	8,000,000	10,000,000	12,000,000
Hungary— Bullion .. ..	2,500	500	700
Italy— Bullion, etc. .. ..	128,000	114,000	223,000
Jugoslavia— Bullion .. ..	—	5,000	25,000
Netherlands— Bullion and scrap ..	179,000	533,000	515,000
Norway— Bullion .. .. Scrap .. ..	129,000 80,000	117,000 54,000	(a) 85,000
Poland— Bullion .. ..	9,000	138,000	600,000
Rumania— Bullion .. ..	(a)	(a)	90,000
Spain— Bullion .. ..	1,083,000	1,215,000	1,276,000
Sweden— Bullion .. ..	117,000	73,000	101,000
Switzerland— Bullion .. ..	460,000	727,000	381,000
Egypt— Bullion .. ..	787,000	156,000	13,000
Mexico— Bullion .. ..	108,537,000	108,700,000	104,800,000
Nicaragua— Bullion .. .. Concentrates .. ..	1,700 13,000	— 40,000	(a) (a)
United States— Ore and base bullion Refined bullion ..	105,000 109,988,000	10,000 118,403,000	8,000 112,893,000
Bolivia— Ores .. ..	5,639,000	6,215,000	(a)

EXPORTS OF SILVER (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Ore (excluding mixed ore) .. .. .	48,000	36,000	14,000
Bullion .. .. .	214,000	171,000	38,000
Honduras—			
Bullion .. .. .	(a)	2,570,000	(a)
Peru—			
Ores, concentrates, etc.	4,431,000	4,122,000	(a)
Bullion, etc. .. .. .	16,842,000	16,834,000	(a)
Scrap .. .. .	900	900	(a)
China—			
Bullion .. .. .	2,170,000	4,880,000	13,600,000
Japan—			
Bullion .. .. .	2,653,000	2,935,000	2,883,000
Netherlands East Indies—			
Bullion and scrap ..	1,991,000	1,943,000	(a)

(a) Information not available.

## IMPORTS OF SILVER \*

*(In terms of metal)*

(Fine troy ounces)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom (total imports)—			
Unrefined bullion .. .. .	7,500,000	21,000,000	14,000,000
Refined bullion .. .. .	62,000,000	49,000,000	71,355,000
Gold Coast—			
Bullion .. .. .	—	—	400
Kenya and Uganda—			
Bullion .. .. .	690	2,200	500
Nigeria—			
Bullion .. .. .	9,600	4,500	4,200
Sierra Leone—			
Bullion .. .. .	1,300	1,200	1,400
Union of South Africa (total imports)—			
Bullion .. .. .	500	240	300
Canada—			
Bullion .. .. .	1,600,000	1,700,000	1,500,000
British Guiana—			
Bullion .. .. .	1,300	700	1,000
Ceylon—			
Bullion .. .. .	234,000	291,000	246,000
Cyprus—			
Bullion .. .. .	6,000	10,000	9,000
British India—			
Bullion .. .. .	99,200,000	70,600,000	91,300,000
British Malaya (total imports)—			
Bullion .. .. .	593,000	757,000	1,600,000
Australia (years ended June 30)—			
Matte .. .. .	6,500	3,800	—
Bullion .. .. .	41,000	37,000	66,000
Fiji—			
Bullion .. .. .	4,500	700	2,000
New Zealand—			
Bullion .. .. .	5,600	10,000	6,000



IMPORTS OF SILVER (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. .. .	3,511,000	2,450,000	1,955,000
Belgium-Luxemburg E.U.—			
Bullion, etc. .. ..	907,000	32,000	42,000
Czechoslovakia—			
Bullion .. .. .	1,016,000	1,347,000	230,000
Denmark—			
Bullion, etc. .. ..	1,029,000	1,260,000	1,402,000
Finland—			
Bullion, etc. .. ..	407,100	405,000	371,000
France—			
Bullion .. .. .	1,410,000	491,000	3,720,000
Beaten, rolled or drawn..	148,000	174,000	300,000
Germany—			
Ore (b) .. .. .	(£8,300)	(£13,000)	(£2,200)
Bullion .. .. .	8,000,000	11,000,000	7,000,000
Scrap (c) .. .. .	£300,000	£400,000	£300,000
Greece—			
Bullion .. .. .	400	1,700	1,600
Hungary—			
Bullion .. .. .	17,000	947,000	299,000
Italy—			
Bullion, etc. .. ..	2,094,000	2,478,000	3,617,000
Jugoslavia—			
Bullion .. .. .	2,000	4,000	3,000
Latvia—			
Bullion and wire.. ..	70,000	80,000	159,000
Lithuania—			
Bullion, etc. .. ..	5,000	4,000	10,000
Netherlands—			
Bullion and scrap .. ..	2,690,000	4,810,000	3,590,000
Norway—			
Bullion .. .. .	293,000	406,000	354,000
Sheets and wire .. ..	310,000	357,000	451,000
Poland—			
Bullion .. .. .	322,000	411,000	3,395,000
Portugal—			
Bullion .. .. .	7,000	8,000	230,000

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

(b) Value of ores; Ag content not known.

(c) Ag content not known.

IMPORTS OF SILVER (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Spain—			
Bullion .. .. .	109,000	65,000	50,000
Sweden—			
Bullion .. .. .	877,000	1,242,000	1,371,000
Switzerland—			
Bullion .. .. .	787,000	2,220,000	1,403,000
Egypt—			
Bullion .. .. .	1,786,000	1,835,000	1,580,000
French West Africa—			
Bullion, etc. .. ..	3,200	(a)	(a)
Morocco (French zone)—			
Bullion, etc. .. ..	500	22,000	9,000
Tunis—			
Beaten, drawn or rolled	69,000	76,000	92,000
United States—			
Ore and base bullion ..	65,889,000	62,335,000	53,896,000
Refined bullion .. ..	13,778,000	21,604,000	27,685,000
Argentina—			
Bullion .. .. .	74,000	79,000	54,000
Brazil—			
Bullion .. .. .	27,000	28,000	27,000
Chile—			
Bullion .. .. .	805,000	100	2,000
Colombia—			
Bullion .. .. .	248,000	169,000	₪ (a)
China—			
Bullion .. .. .	129,300,000	141,200,000	94,870,000
French Indo-China—			
Bullion, etc. .. ..	151,000	57,000	(a)
Japan—			
Bullion .. .. .	1,818,000	68,000	804,000
Netherlands East Indies—			
Bullion and scrap ..	985,000	963,000	(a)
Persia (c)—			
Bullion .. .. .	3,940,000	330,000	290,000
Syria and Lebanon—			
Bullion .. .. .	(a)	48,000	96,000
Turkey—			
Bullion, etc. .. ..	2,500	2,400	2,300

(a) Information not available.

(c) Years ended March 21.

## ABSORPTION OF NEW SILVER IN COINAGE.

(Fine ounces)

*(Compiled from statistics supplied by the Government of the country concerned.)*

Country	Silver ingots purchased in the market and bearing refiner's mark			Silver withdrawn from coinage and sold.		
	1928	1929	1930	1928	1929	1930
United Kingdom	Nil	Nil	10,070,512	6,602,994	3,027,092	1,504,330
Union of South Africa .. ..	Nil	318,248	189,319	(f) Nil	(f) Nil	(f) Nil
Canada .. ..	Nil	Nil	Nil	Nil	Nil	Nil
India .. ..	Nil	Nil	Nil	16,629,765	30,178,787	28,950,080
Australia .. ..	853,420	57,152	73,542	Nil	Nil	Nil
Austria .. ..	Nil	94,315	451	Nil	Nil	Nil
Belgium .. ..	Nil	Nil	Nil	7,195,047	Nil	Nil
Bulgaria .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Czechoslovakia ..	(a)	(a)	(a)	(a)	(a)	(a)
Denmark .. ..	Nil	Nil	77,482	269,128	Nil	337,575
Estonia .. ..	Nil	Nil	248,458	Nil	Nil	Nil
Finland .. ..	Nil	Nil	Nil	66,872	Nil	Nil
France .. ..	1,625,179	Nil	Nil	(d) Nil	(a)	Nil
Germany .. ..	(b)	Nil	Nil	Nil	Nil	Nil
Greece .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Hungary .. ..	Nil	1,028,824	592,190	Nil	Nil	Nil
Italy .. ..	Nil	Nil	Nil	(a)	Nil	Nil
Jugoslavia .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Latvia .. ..	Nil	Nil	Nil	6,440	8,877	22,331
Lithuania .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Netherlands .. ..	1,013,615	3,052,546	1,938,677	Nil	Nil	Nil
Norway .. ..	Nil	Nil	Nil	Nil	(a)	Nil
Poland .. ..	6,510,375	386,502	Nil	1,205,625	Nil	Nil
Portugal .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Rumania .. ..	(a)	(a)	Nil	(a)	(a)	Nil
Russia .. ..	(a)	7,000,000	16,000,000	(a)	(a)	(a)
Spain .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Sweden .. ..	64,410	393,956	(a)	Nil	Nil	(a)
Switzerland .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Egypt .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Liberia .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Costa Rica .. ..	Nil	Nil	Nil	Nil	Nil	Nil

(a) Information not available.

(b) The greater part of the silver coinage struck was made from old coins no longer in currency.

(d) The Silver Market report large sales of demonetised silver through the Bank of France and private sources.

(f) Not including sales by the East and West African Currency Boards: 1928, 399,621—1929, 580,091—1930, 580,037 fine ounces.

## ABSORPTION OF NEW SILVER IN COINAGE (Cont.)

(Fine ounces)

Country	Silver ingots purchased in the market and bearing refiner's mark			Silver withdrawn from coinage and sold		
	1928	1929	1930	1928	1929	1930
Cuba .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Guatemala ..	Nil	Nil	Nil	Nil	Nil	Nil
Honduras ..	Nil	Nil	Nil	Nil	Nil	Nil
Haiti .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Mexico .. ..	(a)	(a)	Nil	(a)	(a)	Nil
Nicaragua ..	(a)	(a)	Nil	Nil	Nil	Nil
Panama .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Salvador .. ..	Nil	Nil	Nil	Nil	(a)	Nil
United States (silver receipts at mint) ..	(b) 960,507	(b) 737,036	(a)	Nil	Nil	Nil
Argentina ..	Nil	Nil	Nil	Nil	Nil	Nil
Bolivia .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Brazil .. ..	160,307	224,570	160,323	Nil	Nil	Nil
Chile .. ..	Nil	Nil	66,700	Nil	Nil	Nil
Colombia .. ..	(a)	Nil	(a)	63,402	(a)	36,069
Ecuador .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Peru .. ..	4,127	Nil	Nil	Nil	Nil	Nil
Paraguay .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Uruguay .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Venezuela ..	(a)	67,000,000	61,000,000	(a)	(a)	(a)
China .. ..	121,000,000	(a)	(a)	(a)	(a)	(a)
Japan .. ..	(c)	Nil	Nil	57,066	Nil	Nil
Persia .. ..	1,314,159	1,226,817	Nil	Nil	Nil	Nil
Siam .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Turkey .. ..	Nil	Nil	Nil	Nil	Nil	Nil

(a) Information not available.

(b) Not including silver contained in gold deposits—about 4,000,000 ounces in each year.

(c) Weight of pure silver in coins issued.

(d) Figures represent the amount of pure silver stated to be used in coinage.

## STRONTIUM MINERALS

### PRODUCTION OF STRONTIUM MINERALS (Long tons)

Producing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom— Celestite .. .. .	7,126	5,329	5,141
<b>FOREIGN COUNTRIES</b>			
Germany (Prussia)— Strontianite.. .. .	857	717	359
Tunis— Celestite .. .. .	(a)	(a)	500

(a) Information not available.

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

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom— Celestite .. .. .	4,795	3,000	3,211
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia— Strontium nitrate .. .. .	134	—	—
France— Strontium compounds ..	1	4	11
Germany (e)— Strontium compounds ..	330	731	447
Strontianite and witherite	503	391	215

(e) Celestite recorded with barytes.

## IMPORTS OF STRONTIUM MINERALS, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES			
Czechoslovakia—			
Strontium nitrate .. ..	1	2	2
France—			
Strontium compounds ..	21	16	18
Germany (c)—			
Strontianite and witherite ..	3,828	679	1,092
Strontium compounds ..	—	1	—
Italy—			
Strontium compounds(b) ..	7	4	4
Poland—			
Strontianite and celestite ..	2	2 <i>cwt.</i>	8 <i>cwt.</i>
United States—			
Strontianite and celestite ..	678	869	197
Strontium compounds ..	832	1,175	765
Chile—			
Strontium compounds ..	1	4 <i>cwt.</i>	4 <i>cwt.</i>
Colombia—			
Strontium compounds ..	1	9 <i>cwt.</i>	(a)
Turkey—			
Strontium compounds ..	7	6 <i>cwt.</i>	4 <i>cwt.</i>

(a) Information not available.

(b) Excluding nitrate of strontium.

(c) Celestite recorded with barytes.

## SULPHUR

## PRODUCTION OF SULPHUR

(Long tons)

Producing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom, and Irish Free State—			
Spent oxide (c) .. ..	174,000	174,500	155,432
New Zealand—			
Sulphur .. .. .	719	967	849
<b>FOREIGN COUNTRIES</b>			
France—			
Sulphur rock (sulphur content) .. .. .	24	(a)	(a)
Greece—			
Sulphur rock .. ..	299	1,743	2,581
Refined sulphur .. ..	25	187	(a)
Italy—			
Crude sulphur—			
Fused .. .. .	291,430	318,720	345,024
Ground .. .. .	31,051	21,149	19,409
Spain—			
Sulphur rock .. ..	75,519	73,029	(a)
Refined sulphur (b) .. ..	20,992	23,588	(a)
United States—			
Crude sulphur .. ..	1,981,873	2,362,389	1,989,917
Chile—			
Sulphur rock .. ..	15,423	16,043	(a)
China (estimated)—			
Sulphur .. .. .	3,000	3,000	3,000
Formosa—			
Sulphur .. .. .	768	467	(a)
Japan—			
Sulphur rock .. ..	13,109	14,869	14,392
Refined sulphur .. ..	68,956	64,430	61,375
Netherlands East Indies—			
Sulphur .. .. .	364	1,526	(a)

(a) Information not available.

(b) Partly from imported crude sulphur.

(c) Consumed by the sulphuric acid industry. Average sulphur content was approximately as follows:—

1928	..	48.8	per cent.
1929	..	48.8	„ „
1930	..	48.6	„ „

## EXPORTS OF SULPHUR

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	484	726	537
Union of South Africa ..	10	9	1
British Malaya (including re- exports) .. ..	38	25	21
FOREIGN COUNTRIES			
Austria .. .. .	74	35	52
Belgium-Luxemburg E.U. ..	3,365	2,830	2,640
Czechoslovakia .. ..	9	10	7
France—			
Crude .. .. .	26,077	12,966	2,469
Refined lump .. ..	2,296	7,367	7,471
Flowers of sulphur .. ..	12,839	11,754	8,093
Precipitated sulphur ..	93	553	360
Germany—			
Sulphur, etc. .. ..	65,240	58,855	55,530
Italy—			
Ore .. .. .	—	30	22
Crude lump .. .. .	131,749	168,767	186,378
Crude ground .. ..	15,098	12,215	7,232
Refined lump .. ..	19,250	18,798	27,158
Refined ground .. ..	15,069	10,860	11,892
Flowers of sulphur ..	8,106	7,587	4,722
Netherlands—			
Refined .. .. .	39	97	38
Norway .. .. .	—	574	1,339
Spain (including re-exports) ..	3	3	25
Sweden .. .. .	2	—	5



## EXPORTS OF SULPHUR (Cont.)

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (Cont.)</b>			
Algeria—			
Refined .. .. .	30	6	88
Flowers of sulphur .. .. .	302	47	248
United States—			
Crude .. .. .	685,051	855,183	598,220
Flowers of sulphur .. .. .	19,882	17,663	16,014
Chile—			
Refined and flowers .. .. .	429	320	910
Formosa .. .. .	376	516	(a)
Japan .. .. .	5,238	10,277	5,823
Netherlands East Indies .. .. .	3	23	(a)

(a) Information not available.

## IMPORTS OF SULPHUR

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	92,413	95,115	84,618
Malta—			
Flowers of sulphur .. ..	75	85	45
Mauritius .. .. .	1,215	601	471
Northern Rhodesia .. ..	271	1,426	750
Southern Rhodesia—			
Flowers of sulphur .. ..	3	6	(a)
South West Africa .. ..	13	2	2
Union of South Africa (total imports)—			
Rock-sulphur .. .. .	14,140	19,355	11,758
Flowers of sulphur .. ..	966	465	16,897
British Guiana .. .. .	—	34	—
Canada .. .. .	162,806	209,755	160,471
Newfoundland (years ended June 30) .. .. .	7,937	5,184	10,437
British India (total imports) ..	17,227	19,223	18,674
British Malaya (total imports)	331	183	87
Ceylon .. .. .	81	100	136
Cyprus .. .. .	352	163	123
Palestine (total imports) .. ..	12	5	27
Australia .. .. .	97,483	92,896	89,211
Fiji .. .. .	6	5	4
New Zealand .. .. .	34,447	33,316	24,581
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	13,680	11,385	8,865
Belgium-Luxemburg E.U. .. ..	10,451	11,139	13,865
Bulgaria .. .. .	276	211	(a)
Czechoslovakia—			
Sulphur .. .. .	7,598	9,162	6,718
Flowers of sulphur .. ..	142	83	122
Denmark .. .. .	341	433	374
Estonia—			
Crude .. .. .	5,670	5,750	3,970
Refined .. .. .	19	9	17
Finland .. .. .	53,867	58,015	66,487
France—			
Crude .. .. .	151,830	216,071	225,428
Refined lump .. .. .	2,160	1,137	2,307
Flowers of sulphur .. ..	883	—	136
Precipitated .. .. .	11	12	42

## IMPORTS OF SULPHUR (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Germany—			
Sulphur, etc. .. ..	103,204	118,532	81,054
Greece .. .. .	12,086	5,806	8,493
Hungary .. .. .	1,923	(a)	(a)
Italy .. .. .	21	34	6
Jugoslavia—			
Crude .. .. .	351	1,162	1,114
Refined .. .. .	2,167	1,401	974
Latvia—			
Crude .. .. .	2,400	2,700	2,060
Refined .. .. .	24	11	13
Flowers of sulphur .. ..	45	33	45
Lithuania .. .. .	16	213	(a)
Netherlands .. .. .	2,370	2,342	1,641
Norway .. .. .	14,721	17,348	16,281
Poland—			
Crude .. .. .	486	137	75
Refined .. .. .	1,183	1,724	1,517
Flowers of sulphur .. ..	98	83	35
Portugal—			
Crude .. .. .	5,773	4,482	5,028
Flowers of sulphur .. ..	4,289	3,170	1,543
Other sulphur .. .. .	26	149	2
Rumania—			
Crude .. .. .	(a)	(a)	2,132
Refined .. .. .	(a)	(a)	988
Russia (years ended Sept. 30) ..	17,545	16,232	20,783
Spain (total imports)—			
Crude, unground .. .. .	13,572	16,333	14,352
Refined, unground .. .. .	163	252	145
do. ground, and flowers of sulphur .. .. .	3,047	1,794	1,799
Sweden .. .. .	61,846	84,427	72,618
Switzerland—			
Crude and ground .. .. .	5,234	4,729	2,495
Flowers of sulphur .. ..	498	405	222
Algeria—			
Crude .. .. .	19,707	10,749	12,123
Refined .. .. .	653	4,738	4,837
Flowers of sulphur .. ..	7,955	5,945	4,644
Angola .. .. .	32	(a)	(a)

(a) Information not available.

IMPORTS OF SULPHUR (*Cont.*)

Importing Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Belgian Congo.. ..	53	4,210	7,488
Egypt .. ..	1,705	1,613	2,150
Morocco .. ..	368	702	481
Mozambique .. ..	106	216	(a)
Tunis—			
Crude .. ..	4,451	1,450	7,418
Refined .. ..	554	1,127	965
Costa Rica (total imports) ..	10	9	(a)
Cuba (total imports) .. ..	3,020	59	(a)
Panama .. ..	17	14	(a)
Salvador .. ..	36	39	(a)
United States—			
Sulphur ore and sulphur ..	5,000	1,477	161
Argentina—			
Crude .. ..	10,963	12,301	12,040
Refined .. ..	4,416	380	177
Bolivia .. ..	22	23	(a)
Brazil (total imports) .. ..	9,651	8,610	4,134
Chile—			
Refined .. ..	167	82	10
Colombia—			
Flowers of sulphur .. ..	118	126	(a)
Ecuador .. ..	42	73	132
Peru .. ..	282	234	(a)
Uruguay .. ..	2,469	2,094	(a)
Venezuela .. ..	43	59	(a)
China .. ..	4,436	3,753	5,290
French Indo-China .. ..	320	126	(a)
Netherlands East Indies ..	13,920	17,291	(a)
Syria and Lebanon .. ..	(a)	60	37
Turkey .. ..	5,798	3,701	1,283

(a) Information not available.

## TALC.

## PRODUCTION OF TALC

(Long tons).

Producing Country.	1928	1929	1930
BRITISH EMPIRE.			
United Kingdom .. ..	161	29	185
Union of South Africa ..	518	435	349
Canada (sales) (g) .. ..	13,326	13,847	10,572
India .. .. .	5,539	7,217	6,857
Australia .. .. .	1,327	1,333	681
Newfoundland (exports) (e)	200	—	—
FOREIGN COUNTRIES.			
Austria .. .. .	24,000	25,000	25,000
Finland .. .. .	4,650	(a)	(a)
France .. .. .	88,100	(a)	(a)
Germany (Bavaria) ..	7,748	6,698	5,702
Greece .. .. .	30	148	(a)
Italy .. .. .	32,469	40,126	37,491
Norway .. .. .	7,698	8,200	7,569
Rumania (d) .. .. .	2,130	1,060	3,300
Russia (years ended Sept. 30) .. .. .	5,480	(a)	(a)
Spain (b) .. .. .	3,278	8,869	(a)
Sweden .. .. .	4,799	6,915	(a)
Morocco (French zone) (ex- ports) .. .. .	527	600	(a)
United States (sales) (c) ..	181,229	196,235	160,165
Uruguay (exports) ..	1,727	928	(a)
Manchuria .. .. .	(a)	40,000	(a)

(a) Information not available.

(b) In addition the following were quarried : 1,983 cubic yards in 1928, and 1,666 cubic yards in 1929.

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

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

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

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

1928.. .. .	£8,225
1929.. .. .	£9,807
1930.. .. .	£10,232

## EXPORTS OF TALC

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. .. .	88	426	248
Canada .. .. .	9,773	10,178	7,600
Newfoundland (year ended June 30) .. .. .	200	—	—
British India .. .. .	(a)	—	5
FOREIGN COUNTRIES			
Austria .. .. .	19,443	19,293	18,237
Belgium-Luxemburg E.U. ..	178	83	57
Czechoslovakia .. .. .	136	149	190
Finland .. .. .	908	460	496
France .. .. .	35,449	35,310	28,919
Germany .. .. .	706	975	857
Greece .. .. .	147	153	13
Italy .. .. .	20,251	21,782	21,250
Norway .. .. .	6,423	9,337	11,438
Rumania .. .. .	239	(a)	310
Morocco (French zone) ..	527	600	(a)
Uruguay .. .. .	1,727	928	(a)

(a) Information not available.

## IMPORTS OF TALC

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	13,679	16,309	14,848
Canada .. .. .	4,840	4,925	4,285
Australia .. .. .	—	332	271
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	240	270	164
Belgium-Luxemburg E. U. ..	4,746	4,462	3,701
Czechoslovakia .. .. .	1,983	2,323	2,416
Denmark .. .. .	1,013	1,375	1,457
Estonia .. .. .	158	246	115
Finland .. .. .	984	502	1,248
France .. .. .	4,560	5,840	6,987
Germany .. .. .	23,127	23,890	21,300
Jugoslavia .. .. .	339	390	695
Latvia .. .. .	60	55	70
Lithuania .. .. .	37	(a)	38
Poland .. .. .	1,905	2,297	2,220
Rumania .. .. .	(a)	(a)	365
Sweden .. .. .	3,096	3,739	(a)
Algeria .. .. .	179	482	194
Egypt .. .. .	1,369	1,457	1,614
Tunis .. .. .	431	390	529
Panama .. .. .	15	32	(a)
United States .. .. .	24,114	27,899	22,511
Argentina .. .. .	1,128	1,577	1,254
Chile .. .. .	75	239	136
Colombia .. .. .	120	113	(a)
Peru .. .. .	85	82	(a)
Venezuela .. .. .	25	31	(a)
Formosa .. .. .	9	36	(a)
Japan (total imports) ..	30,225	38,920	36,485
Syria and Lebanon .. .. .	(a)	66	23
Turkey .. .. .	319	(a)	18

(a) Information not available.

## TIN

## PRODUCTION OF TIN ORE

*(In terms of metal)*

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	2,761	3,271	2,488
Nigeria .. .. .	9,132	10,734	8,331
Southern Rhodesia ..	7	13	9
South West Africa ..	161	171	130
Swaziland .. .. .	130	130	113
Tanganyika Territory ..	37	14	7
Uganda .. .. .	186	225	266
Union of South Africa ..	1,249	1,218	930
India .. .. .	1,946	2,649	2,990
Federated Malay States (exports) .. .. .	61,935	67,041	62,065
Unfederated Malay States	2,680	2,326	1,699
Straits Settlements ..	45	3	(a)
Australia .. .. .	2,890	2,239	1,451
Total ..	83,200	90,000	80,500
FOREIGN COUNTRIES			
Czechoslovakia .. ..	26	24	25
France .. .. .	7	(a)	(a)
Portugal .. .. .	700	500	650
Spain .. .. .	215	236	(a)
Belgian Congo .. ..	784	978	652
French Morocco .. ..	70	—	(a)
Mexico .. .. .	2	5	265
United States .. ..	42	35	17
Argentina .. .. .	25	3	(a)
Bolivia (exports) .. ..	41,410	46,337	37,051
China (exports of ingots) ..	7,032	6,778	6,483
French Indo-China ..	751	829	993
Japan .. .. .	(a)	117	355
Netherlands East Indies ..	34,943	35,700	34,887
Siam .. .. .	7,572	10,517	11,526
Total ..	94,000	102,000	93,000
WORLD'S TOTAL	177,000	192,000	174,000

(a) Information not available.



## SMELTER PRODUCTION OF TIN

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom (estimated) .. .. .	49,000	57,000	50,000
British Malaya (c) .. .. .	99,872	105,514	96,972
Australia .. .. .	3,133	2,260	1,544
Total ..	152,000	165,000	149,000
<b>FOREIGN COUNTRIES</b>			
Belgium (estimated) .. .. .	900	900	900
France .. .. .	563	700	700
Germany .. .. .	4,669	2,671	3,000
Italy .. .. .	111	118	87
Netherlands (estimated) .. .. .	—	1,000	2,000
China (exports) .. .. .	7,032	6,778	6,483
French Indo-China .. .. .	258	309	283
Japan .. .. .	733	799	916
Netherlands East Indies (exports) .. .. .	13,963	13,350	14,360
Total ..	28,000	27,000	28,000
<b>WORLD'S TOTAL</b>	180,000	192,000	177,000

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

1928 ..	31,964	long tons.
1929 ..	30,625	" "
1930 ..	23,400	" "

(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	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore and concentrates ..	2,040	391	118
Blocks, ingots, bars and slabs	23,466	30,437	22,913
Soft solder .. .. .	2,952	3,050	2,775
Tin-foil .. .. .	232	310	302
Nigeria—			
Ore .. .. .	13,070	15,129	12,067
Southern Rhodesia—			
Ore .. .. .	10	12	72
South West Africa—			
Ore .. .. .	237	237	296
Tanganyika—			
Ore and concentrates ..	52	19	10
Uganda—			
Ore .. .. .	275	324	351
Union of South Africa—			
Ore and concentrates ..	1,942	1,818	1,240
British India—			
Ore .. .. .	2,284	3,376	2,774
Blocks, ingots, bars and slabs	684	691	716
British Malaya (including re- exports)—			
Ore .. .. .	—	4	(£78)
Tin .. .. .	99,052	102,024	97,213
Australia—			
Ore, dross etc. ( <i>Sn content</i> )	580	1	—
Ingots .. .. .	1,560	1,062	584
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude tin, alloys and scrap	175	179	124
Belgium-Luxemburg E.U.—			
Ore .. .. .	47	14	42
Ingots, pigs, scrap, etc. ..	569	554	394
Sheets, wire, etc. .. .	109	226	271

EXPORTS OF TIN (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Crude tin, scrap and alloys	107	137	122
Denmark—			
Blocks, bars and scrap ..	18	27	(a)
Tin-foil .. .. .	1	—	(a)
France—			
Ore .. .. .	214	329	191
Scrap .. .. .	541	717	977
Pigs, bars, etc. .. ..	778	744	956
ditto (alloyed) .. ..	301	339	284
Sheets and wire .. ..	125	92	75
Germany—			
Ingots, bars and scrap ..	5,715	4,987	4,918
Tin-foil .. .. .	274	292	275
Hungary—			
Crude tin .. .. .	19	3	19
Italy—			
Ingots, bars, scrap and alloys .. .. .	216	313	272
Sheets, wire, etc. and alloys	75	37	26
Netherlands—			
Blocks .. .. .	8	421	1,659
Sheets, wire, etc. .. ..	47	59	71
Norway—			
Ingots and bars .. ..	97	116	124
Poland .. .. .	27	1	—
Portugal—			
Ore .. .. .	760	692	913
Spain (including re-exports)—			
Ingots and bars .. ..	35	21	85
Sweden—			
Crude tin and scrap ..	108	127	48
Sheets, pipes and wire ..	12	4	(a)
Switzerland—			
Pigs, bars and slabs ..	23	15	17
Tin-foil .. .. .	527	776	567
Scrap .. .. .	78	112	105
Belgian Congo—			
Ore .. .. .	1,077	1,306	1,098
Egypt—			
Ingots .. .. .	2	2	(a)
Morocco (French zone)—			
Ore .. .. .	97	—	—

(a) Information not available.

EXPORTS OF TIN (*Cont.*)

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
United States—			
Blocks, pigs and bars ..	349	790	84
Argentina—			
Ore .. .. .	43	2	—
Bolivia—			
Ores, concentrates, etc. ( <i>Sn</i> <i>content</i> ) .. .. .	41,410	46,337	37,051
Peru .. .. .	1	—	—
China—			
Ingots and slabs .. ..	7,032	6,778	6,483
Tin-foil .. .. .	33	18	18
French Indo-China—			
Ore .. .. .	199	27	( <i>a</i> )
Tin-tungsten ore .. ..	945	972	1,440
Ingots .. .. .	284	241	290
Japan—			
Tin-foil .. .. .	136	83	69
Netherlands East Indies—			
Ore .. .. .	27,975	27,614	—
Ingots .. .. .	13,963	13,350	14,360
Siam (including re-exports)—			
Ore .. .. .	11,264	14,610	16,012
Tin .. .. .	3	—	—

(a) Information not available.

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

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore and concentrates ..	81,317	91,458	75,530
Blocks, ingots, bars and slabs	8,634	2,837	4,456
Soft solder .. .. .	2	231	36
Tin-foil .. .. .	283	345	276
Irish Free State—			
Ingots, bars, slabs, etc. ..	15	26	26
Soft solder .. .. .	126	150	125
Kenya and Uganda—			
Ore .. .. .	—	—	30
Bar, plate, or sheet ..	958	1,231	1,756
Mauritius—			
Slabs, plates and sheets ..	125	80	(a)
Southern Rhodesia (total imports)—			
Blocks, ingots and bars ..	53	12	(a)
Plates and sheets .. ..	1	—	(a)
South West Africa—			
Bar, sheet, etc. .. ..	3	3	2
Tanganyika—			
Bars and sheets .. ..	—	8	5
Union of South Africa (total imports)—			
Blocks, ingots, bars, plates and sheets .. ..	556	736	750
Tin-foil .. .. .	17	34	16
Canada—			
Blocks, pigs and bars ..	2,392	2,551	2,354
Tin-foil .. .. .	46	46	33
Jamaica—			
Ingots .. .. .	(£40)	(a)	(£76)
British India (total imports)—			
Blocks, ingots, bars and slabs	2,816	2,768	2,837
Wrought tin .. .. .	10	6	22
British Malaya (total imports)—			
Ore .. .. .	44,389	48,785	47,165
Tin .. .. .	3	1	1
Ceylon—			
Ingots, slabs, etc. .. ..	65	70	50
Tin solder .. .. .	27	52	44

(a) Information not available.

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE— <i>cont.</i>			
Cyprus—			
Ingots and bars .. ..	6	6	7
Australia—			
Ingots .. .. .	70	186	159
New Zealand—			
Ingots, etc. .. .. .	254	276	251
Tin-foil .. .. .	17	18	13
FOREIGN COUNTRIES			
Austria—			
Crude tin, alloys and scrap	1,346	1,210	908
Belgium-Luxemburg E.U.—			
Ore .. .. .	1,451	1,243	984
Ingots, pigs, scrap, etc. ..	995	1,147	1,298
Sheets, wire, etc. .. ..	70	58	65
Bulgaria—			
Bars, sheets, scrap, etc. ..	115	184	(a)
Czechoslovakia—			
Crude tin, scrap, and alloys	1,647	1,976	1,766
Tin-foil .. .. .	14	11	13
Denmark—			
Blocks, bars and scrap ..	508	590	650
Sheets .. .. .	12	31	12
Tin-foil .. .. .	34	45	60
Estonia—			
Crude and scrap .. .. .	28	26	17
Finland—			
Ingots and sheets .. .. .	239	234	198
Tin solder .. .. .	21	17	15
France—			
Ore .. .. .	1,232	698	897
Scrap .. .. .	27	32	101
Pigs, bars, etc. .. .. .	10,841	12,161	11,979
do. (alloys) .. .. .	225	398	338
Sheets and wire .. .. .	165	342	333
Germany—			
Ore .. .. .	12,188	9,984	10,060
Ingots, bars and scrap ..	13,199	17,248	14,409
Tin-foil .. .. .	162	143	106
Greece .. .. .	177	195	187
Hungary—			
Crude tin .. .. .	552	635	490
Foil .. .. .	36	40	33

## IMPORTS OF TIN (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Italy—			
Ingots, bars, scrap and alloys .. .. .	4,190	5,239	4,632
Tubes, wire and alloys ..	2	7	12
Jugoslavia—			
Crude tin .. .. .	402	480	593
Bars, sheets, wire, etc. ..	8	27	12
Tin-foil .. .. .	10	8	11
Latvia—			
Ingots and scrap .. ..	58	62	49
Lithuania—			
Ingots and scrap .. ..	(a)	10	(a)
Netherlands—			
Ore .. .. .	—	2,365	3,789
Blocks .. .. .	980	1,105	1,192
Sheets, wire, etc. .. ..	66	59	120
Norway—			
Crude tin .. .. .	252	309	324
Bars, sheets, filings, etc. ..	175	153	219
Poland—			
Ingots, bars and sheets ..	754	782	757
Portugal—			
Sheets, wire, etc. .. ..	399	396	349
Rumania—			
Ingots, bars and scrap ..	(a)	(a)	309
Russia (years ended Sept.30)—			
Blocks, pigs and scrap ..	4,631	4,290	6,271
Spain (total imports)—			
Ingots and bars .. .. .	1,624	1,805	1,907
Sheets and tubes .. .. .	13	19	17
Foil .. .. .	52	28	56
Sweden—			
Crude tin and scrap .. ..	1,262	1,657	1,674
Sheets, pipes and wire ..	40	50	(a)
Switzerland—			
Pigs, bars and slabs .. ..	1,844	2,196	2,260
Sheets, wire, etc. and alloys	11	10	12
Foil .. .. .	23	19	12
Scrap .. .. .	60	203	158
Algeria—			
Tin and alloys .. .. .	197	275	293

(a) Information not available.

## IMPORTS OF TIN (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Angola—			
Bars and sheets .. ..	4	(a)	(a)
Belgian Congo .. ..	26	29	35
Egypt—			
Ingots, bars and slabs ..	361	409	474
Morocco (French zone) ..	34	49	27
Réunion .. ..	2	2	(a)
Tunis—			
Pigs, bars, and sheets ..	67	52	61
Cuba (total imports)—			
Ingots .. ..	88	60	(a)
Bars, sheets, etc. .. ..	32	68	(a)
Mexico—			
Ingots .. ..	295	(a)	(a)
Salvador .. ..	42	41	(a)
United States—			
Ore ( <i>Sn content</i> ) .. ..	130	128	289
Blocks, pigs, bars, etc. ..	76,702	85,987	78,585
Argentina—			
Ingots and sheets .. ..	1,601	1,555	1,242
Brazil (total imports)—			
Bars, rods, sheets and plates	791	726	579
Chile—			
Ingots .. ..	128	407	115
Bars and sheets .. ..	56	187	13
Peru—			
Bars and sheets .. ..	40	100	(a)
Tin-foil .. ..	1	2	(a)
Solder .. ..	23	22	(a)
Uruguay—			
Ingots .. ..	249	345	(a)
Venezuela—			
Ingots .. ..	43	50	(a)
China—			
Ingots and slabs .. ..	3,820	3,220	3,128
Tin and lead foils .. ..	4,188	4,088	399
French Indo-China—			
Ingots and alloys .. ..	129	138	(a)
Sheets .. ..	144	83	(a)
Formosa—			
Ingots, slabs, etc. .. ..	196	156	(a)
Tin-foil .. ..	4	1	(a)
Japan (total imports)—			
Ingots and slabs .. ..	4,010	3,993	3,165
Tin-foil .. ..	13	9	5



IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Netherlands East Indies—			
Tin and tin-foil .. .. .	307	277	(a)
Philippine Islands—			
Ingots .. .. .	35	67	81
Tin-foil .. .. .	101	160	42
Siam (total imports)—			
Crude tin .. .. .	70	46	34
Syria and Lebanon—			
Ingots and sheets .. .. .	(a)	18	28
Turkey—			
Ingots, etc. .. .. .	368	347	414

(a) Information not available.

## TITANIUM MINERALS

## PRODUCTION OF TITANIUM MINERALS

(Long tons)

Producing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
Canada (shipments)—			
Titaniferous iron ore ..	2,004	2,190	368
India—			
Ilmenite .. .. .	25,307	23,670	28,776
<b>FOREIGN COUNTRIES</b>			
Norway—			
Ilmenite .. .. .	7,822	7,798	7,509
Rutile .. .. .	58	43	45
Portugal			
Ilmenite .. .. .	691	55	820
Russia (Years ended Sept. 30)—			
Ilmenite .. .. .	5	(a)	(a)
Senegal—			
Ilmenite .. .. .	6,948	8,000	(c) 5,237
Brazil—			
Ilmenite .. .. .	1,474	(c) 6,261	(c) 79

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

(a) Information not available.

(c) Exports.

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

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE.			
India (Travancore) ( <i>b</i> )— Ilmenite .. .. .	22,580	19,950	15,410
FOREIGN COUNTRIES			
France— Titanium oxide .. ..	6	3	3
Italy— Ferro-titanium .. ..	—	41	18
Norway— Ilmenite .. .. .	2,621	6,265	8,651
Rutile .. .. .	52	31	—
Senegal— Ilmenite .. .. .	2,077	7,145	5,237
Brazil— Ilmenite .. .. .	2,069	6,261	79

(*b*) Year ended July 31 of the year stated.

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

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom— Titanium and zirconium minerals .. .. .	( <i>b</i> ) 2	42	29
FOREIGN COUNTRIES			
France— Titanium oxide .. ..	355	664	1,039
Italy— Ferro-titanium .. ..	11	14	8
United States— Ilmenite .. .. .	15,379	22,386	22,297
Titanium and ferro-titanium Titanium compounds .. ..	17 55	7 56	1 4
Rutile .. .. .	( <i>a</i> )	5	3

(*b*) Excess of re-exports.

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

## TUNGSTEN

 PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES  
 (Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE.			
United Kingdom—			
Tungsten ore .. ..	96	27	128
<i>WO<sub>3</sub> Content</i> .. ..	57	16	90
Southern Rhodesia—			
Tungsten ore .. ..	13	26	35
India—			
Tungsten ore .. ..	622	1,348	2,452
Tin-tungsten ore ..	218	—	—
Federated Malay States—			
Wolfram .. ..	5	44	65
Scheelite .. ..	—	275	784
Unfederated Malay States—			
Wolfram .. ..	62	116	195
Australia—			
Wolfram .. ..	203	211	201
Scheelite .. ..	—	9	6
New Zealand—			
Tungsten ore .. ..	6	23	24
FOREIGN COUNTRIES.			
Czechoslovakia—			
Tin-tungsten ores ( <i>WO<sub>3</sub></i> <i>Content</i> ) .. ..	43	44	44
Portugal—			
Wolfram .. ..	137	344	464
Tin-tungsten ores ..	2	6	—
Russia (years ended Sept. 30)—			
Tungsten ore			
(30-68% <i>WO<sub>3</sub></i> )	17	(a)	(a)
do. (60-70% <i>WO<sub>3</sub></i> )	39	(a)	(a)
Spain—			
Wolfram .. ..	186	251	(a)
<i>WO<sub>3</sub> Content</i> .. ..	123	151	(a)

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

Producing Country	1928	1929	1930
FOREIGN COUNTRIES —(Cont.)			
Mexico—			
Tungsten ore .. ..	—	10	25
United States—			
Concentrates (60% $WO_3$ )	1,079	741	627
Argentina—			
Tungsten ore .. ..	23	58	90
Bolivia—			
Tungsten concentrates (exports) ( <i>W content</i> ).	17	962	(a)
China—			
Tungsten ore (exports)	7,246	8,729	8,589
French Indo-China—			
Tin-tungsten ores ( $WO_3$ Content) .. ..	103	117	130
Japan—			
Tungsten ore .. ..	49	55	73
Korea—			
Tungsten ores (60% $WO_3$ )	144	14	11
Netherlands East Indies—			
Tungsten ore .. ..	8	10	(a)
Siam (exports)—			
Tungsten ore .. ..	—	56	7

(a) Information not available.

## EXPORTS OF TUNGSTEN

(Domestic Produce)

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Tungsten ore .. ..	196	253	109
Ferro-tungsten .. ..	690	643	509
Tungsten powder, wire and other forms .. ..	40	163	103
British India—			
Wolfram ore .. ..	1,599	1,608	3,268
British Malaya (including re-exports)—			
Wolfram .. ..	207	292	247
Scheelite .. ..	—	276	793
Australia (including re-exports)—			
Wolfram .. ..	101	233	182
New Zealand—			
Scheelite .. ..	5	33	17
FOREIGN COUNTRIES			
Czechoslovakia—			
Tungsten ore .. ..	91	81	60
Portugal—			
Tungsten ore .. ..	142	284	467
United States—			
Tungsten and ferro-tungsten	7	46	13
Argentina—			
Tungsten ore .. ..	23	42	93
Bolivia—			
Tungsten ore ( <i>W content</i> )	18	962	(a)
China—			
Tungsten ore .. ..	7,246	8,729	8,589
French Indo-China—			
Tin-tungsten ore .. ..	945	972	1,440
Tungsten ore .. ..	90	67	(a)
Korea—			
Tungsten ore .. ..	3	25	9
Siam (including re-exports)—			
Tungsten ore .. ..	—	56	7

(a) Information not available.

## IMPORTS OF TUNGSTEN

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Tungsten ore .. ..	964	1,630	3,190
British Malaya (total imports)—			
Tungsten ore .. ..	—	41	5
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia—			
Tungsten ore .. ..	16	—	—
Germany—			
Tungsten ore .. ..	4,328	3,714	3,950
Jugoslavia—			
Tungsten ore .. ..	27	20	10
Ferro-tungsten .. ..	31	—	—
Norway—			
Ferro-tungsten, etc. ..	24	26	(a)
Russia (years ended Sept. 30)—			
Ferro-tungsten .. ..	(a)	968	1,420
Sweden—			
Ferro-tungsten, etc. ..	323	331	(a)
United States (total imports)—			
Tungsten and alloys ( <i>W</i> <i>content</i> ) .. ..	1,219	3,040	1,613

(a) Information not available.

## URANIUM MINERALS

 PRODUCTION OF URANIUM MINERALS  
 (Cwt.)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
United Kingdom .. ..	(b)	(b)	—
FOREIGN COUNTRIES			
Czechoslovakia (U <sub>3</sub> O <sub>8</sub> ) ..	378	316	259
Germany (Prussia) .. ..	40	14	(a)
Portugal .. .. .	2,815	(a)	(a)
Belgian Congo .. ..	(i)	(i)	(i)
United States (U <sub>3</sub> O <sub>8</sub> ) ..	(a)	232	(a)

Uranium minerals are also produced in Russia. The production in 1927 was about 50 tons; later information is not available.

(a) Information not available.

(b) Information not available for publication.

(i) The figures for output of uranium minerals are not available but it is reported that the radium produced from these ores amounted to 42, 60 and 60 grams in 1928, 1929 and 1930 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	1928	1929	1930
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Uranium oxide .. ..	Cwt.	1,732	2,230	795
France—				
Uranium salts .. ..	Cwt.	—	—	6
Radium and radium products	Lb.	62	13	—
Portugal—				
Uranium minerals .. ..	Cwt.	2,755	—	20
Belgian Congo—				
Uranium minerals .. ..	Cwt.	5,274	18,580	25,518



## IMPORTS OF URANIUM MINERALS, ETC.

*(Less Re-exports)*

Importing Country and Description	Unit	1928	1929	1930
BRITISH EMPIRE				
United Kingdom— Uranium minerals .. ..	Cwt.	(b) 425	145	318
Canada— Radium .. ..	£	3,612	8,315	9,446
FOREIGN COUNTRIES				
France— Uranium oxide .. ..	Cwt.	93	83	114
Other uranium salts .. ..	do.	18	6	10
Radium and radium pro- ducts .. ..	Lb.	11	15	526
United States— Uranium oxide and salts ..	Cwt.	1,477	2,437	2,064
Radium salts and radio- active substances .. ..	£	116,772	119,227	190,220
Colombia— Uranium oxide and salts ..	Lb.	2	7	(a)

(a) Information not available.

(b) Excess of re-exports.

## VANADIUM

## PRODUCTION OF VANADIUM ORES

(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
Northern Rhodesia— ( <i>V content</i> ) .. ..	51	59	55
South West Africa .. ..	5,033	3,036	4,461
FOREIGN COUNTRIES			
Mexico ( $V_2O_5$ content) .. ..	3	1	—
Peru ( <i>V content</i> ) .. ..	72	888	440

Vanadium ores are also produced in the United States.

(a) Information not available for publication.

## EXPORTS OF VANADIUM

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
BRITISH EMPIRE			
Northern Rhodesia— Ore .. ..	331	532	768
South West Africa— Ore .. ..	4,143	5,185	3,835
FOREIGN COUNTRIES			
Peru— Ore .. ..	617	9,441	5,005
<i>V content</i> .. ..	71	799	(a)

(a) Information not available.

## IMPORTS OF VANADIUM

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES			
France— Vanadium oxide .. ..	3	8	—
Russia (years ended Sept. 30)— Ferro-vanadium .. ..	(a)	45	186
United States— Ore .. .. .	493	8,714	5,168

*(a)* Information not available.

## ZINC

## PRODUCTION OF ZINC ORE

*(In terms of metal)*

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	714	851	647
Nigeria .. .. .	74	—	12
Northern Rhodesia ..	13,176	22,230	20,055
Southern Rhodesia ..	162	—	—
Canada (shipments) (b) ..	122,012	138,298	117,726
Newfoundland (estimated)	—	23,000	23,000
India .. .. .	64,400	55,400	60,700
Australia .. .. .	147,863	154,562	119,613
Total ..	348,000	394,000	342,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	3,106	3,897	3,501
Belgium (ore) .. ..	10,393	(a)	(a)
Czechoslovakia .. ..	520	8	632
Finland .. .. .	678	802	443
France .. .. .	9,126	9,400	7,200
Germany .. .. .	142,106	140,217	136,463
Greece .. .. .	4,405	5,814	1,300
Italy .. .. .	83,501	85,666	78,309
Jugoslavia .. .. .	340	170	4,500
Norway .. .. .	22	1,423	7,509
Poland .. .. .	112,700	138,000	118,000
Russia .. .. .	10,300	10,500	17,700
Spain .. .. .	41,400	50,500	50,000
Sweden .. .. .	13,948	29,518	30,000
Algeria .. .. .	12,982	13,576	7,836
Egypt .. .. .	—	578	300
French Morocco .. ..	1,000	1,018	(a)

PRODUCTION OF ZINC ORE (*Cont.*)

Producing Country	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Tunis .. .. .	3,600	3,792	800
Mexico .. .. .	139,508	171,301	122,124
United States .. .. .	620,688	646,855	528,200
Bolivia (exports) .. .. .	2,225	1,373	(a)
Chile .. .. .	491	38	(a)
Peru .. .. .	27,457	(a)	(a)
China (estimated).. .. .	4,000	11,000	3,700
French Indo-China .. .. .	21,147	18,464	15,600
Korea (ore) .. .. .	5,228	5,018	(a)
Japan (c) .. .. .	10,000	10,000	10,000
New Caledonia .. .. .	1,000	400	(a)
Turkey (estimated) .. .. .	2,800	5,700	4,700
Total ..	1,270,000	1,390,000	1,180,000
WORLD'S TOTAL	1,620,000	1,780,000	1,520,000

(a) Information not available.

(b) The amount estimated as recoverable was—

1928 ..	82,432 long tons.
1929 ..	88,066 ..
1930 ..	119,484 ..

(c) Metallgesellschaft estimate.

## METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom (b) ..	55,395	58,298	48,598
Northern Rhodesia ..	9,597	12,121	17,907
Canada .. .. .	73,004	76,829	108,479
Australia .. .. .	50,223	51,872	54,901
<b>Total ..</b>	<b>188,000</b>	<b>199,000</b>	<b>230,000</b>
<b>FOREIGN COUNTRIES</b>			
Belgium .. .. .	203,042	194,774	175,300
Czechoslovakia .. ..	7,912	10,506	13,259
France .. .. .	91,003	97,969	89,300
Germany (b) (d) .. ..	103,053	103,662	100,000
Italy .. .. .	10,486	15,554	18,960
Jugoslavia .. .. .	4,806	6,406	5,418
Netherlands .. .. .	26,431	25,306	22,888
Norway .. .. .	—	5,429	34,064
Poland .. .. .	159,211	166,359	171,700
Russia (years ended Sept.30)	2,221	4,300	4,577
Spain .. .. .	13,335	11,639	8,764
Sweden .. .. .	5,025	4,643	4,061
Mexico .. .. .	10,366	16,031	18,450
United States (c) .. ..	538,019	558,435	444,683
French Indo-China .. ..	2,838	3,748	3,795
Japan .. .. .	18,815	21,750	24,280
<b>Total ..</b>	<b>1,200,000</b>	<b>1,250,000</b>	<b>1,150,000</b>
<b>WORLD'S TOTAL ..</b>	<b>1,390,000</b>	<b>1,450,000</b>	<b>1,380,000</b>

(b) Includes some secondary metal.

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

By grades—	1928	1929	1930
A—High grade ..	176,496	185,108	139,727
B—Intermediate grade	37,303	24,491	23,285
C & D—Select and brass special .. .. .	66,033	85,860	83,277
E—Prime western ..	301,639	305,251	229,510
<i>Total secondary zinc re-covered .. ..</i>	<i>160,900</i>	<i>156,600</i>	<i>(a)</i>

(d) The figures published by Metallgesellschaft (which exclude secondary) are (long tons)—

1928	1929	1930.
96,600	100,400	95,800

PRODUCTION OF ZINC SHEETS  
(Long tons)

Producing Country	1928	1929	1930
United Kingdom .. .. .	3,235	3,354	3,500
Belgium .. .. .	67,418	67,871	(a)
Germany .. .. .	73,303	71,374	65,706
Poland .. .. .	17,082	18,522	(a)
Spain .. .. .	4,135	4,088	(a)
United States .. .. .	65,653	61,012	46,326

PRODUCTION OF ZINC DUST  
(Long tons)

Producing Country	1928	1929	1930
FOREIGN COUNTRIES			
Belgium .. .. .	3,966	3,799	(a)
Germany (estimated) ..	3,900	2,900	(a)
Poland .. .. .	9,050	8,192	(a)
United States—			
Prepared blue powder (sales) .. .. .	8,189	9,866	8,247
Primary zinc recovered as dust .. .. .	2,382	2,913	(a)

PRODUCTION OF ELECTROLYTIC ZINC  
(Long tons)

Producing Country	1928	1929	1930
BRITISH EMPIRE			
Northern Rhodesia ..	9,597	12,121	17,907
Canada .. .. .	73,005	76,829	111,821
Australia (Tasmania) ..	50,223	51,872	54,901
FOREIGN COUNTRIES			
France .. .. .	13,461	15,400	20,500
Italy .. .. .	4,790	9,421	12,979
Norway .. .. .	—	5,429	34,064
Poland .. .. .	603	13,009	(a)
United States .. .. .	143,000	139,496	117,112
Japan .. .. .	(c) 1,000	840	(c) 1,000

(a) Information not available.

(b) Included with "blue powder".

(c) Estimated.

M\*\*

## EXPORTS OF ZINC

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1928	1929	1930
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Sulphides .. .. .	33,779	17,267	437
Other ores .. .. .	4,287	3,544	2,828
Spelter .. .. .	5,002	4,458	3,856
Sheets, plates and discs ..	2,593	1,806	1,413
Oxide .. .. .	1,243	1,892	2,797
Lithopone .. .. .	1,246	1,762	1,222
Northern Rhodesia—			
Ingots .. .. .	(a)	11,880	15,208
Canada—			
Ore ( <i>Zn content</i> ) .. .. .	10,049	11,491	20,966
Spelter .. .. .	56,781	60,306	67,395
Dross, scrap and ashes ..	3,100	3,410	2,147
Newfoundland (years ended June 30)—			
Concentrates .. .. .	—	18,168	55,213
British Borneo (Sarawak)—			
Zinc .. .. .	(£243)	(£734)	(£1,504)
British India—			
Concentrates, etc. .. .. .	76,031	67,408	64,800
British Malaya (including re-exports)—			
Sheets .. .. .	81	70	87
Australia (including re-exports)—			
Ores .. .. .	—	52	—
Concentrates .. .. .	239,150	164,344	158,232
Dust .. .. .	767	(b) (£15)	(b) (£95)
Bars, rods, sheets, etc. ..	36,605	31,346	33,387
New Zealand—			
Spelter and bars .. .. .	22	—	—
<b>FOREIGN COUNTRIES</b>			
Austria—			
Ores .. .. .	4,691	3,800	1,778
Spelter, scrap and alloys ..	2,083	1,964	1,487
Sheets, bars, etc. .. .. .	26	54	161
Zinc-white and zinc-grey ..	11	22	159
Lithopone, etc. .. .. .	13	21	39



EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Belgium-Luxemburg E.U.—			
Ore .. .. .	45,602	55,115	53,877
Spelter .. .. .	97,221	70,419	59,343
Sheets and wire .. .. .	55,191	61,642	55,157
Dust .. .. .	2,520	2,738	2,758
Oxide .. .. .	14,295	13,360	11,159
Lithopone .. .. .	7,811	9,282	10,006
Czechoslovakia—			
Ore .. .. .	772	12	—
Spelter, scrap and alloys ..	2,659	1,993	1,595
Sheets and plates .. .. .	1,750	2,611	1,163
Zinc-white and zinc-grey ..	3,872	3,490	2,949
Lithopone .. .. .	1,511	1,194	1,165
Denmark—			
Spelter, sheets and scrap ..	286	206	161
France—			
Ore .. .. .	10,497	13,120	33,516
Spelter, bars and scrap ..	14,365	16,103	10,760
Sheets .. .. .	5,915	13,062	7,385
Oxide .. .. .	2,148	318	3,188
Lithopone .. .. .	431	214	1,749
Germany—			
Ore .. .. .	199,174	177,627	187,585
Spelter, dust and scrap ..	43,192	42,244	26,318
Sheets and wire .. .. .	1,078	1,195	5,427
Zinc-white and zinc-grey ..	18,780	18,961	24,695
Lithopone .. .. .	18,801	20,159	18,567
Greece—			
Blende .. .. .	5,453	413	—
Calamine .. .. .	1	443	596

(a) Information not available.

(b) £ Australian.

EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1928	1929	1930
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Hungary—			
Spelter and scrap .. ..	330	50	106
Sheets .. ..	577	563	330
Zinc-white and zinc-grey ..	18	87	79
Italy—			
Ore ... ..	162,685	159,812	142,296
Ashes .. ..	—	533	424
Spelter, scrap and alloys ..	18	1,133	173
Sheets, wire and alloys, etc.	32	17	20
Oxide .. ..	26	25	23
Lithopone .. ..	469	468	356
Jugoslavia—			
Ore .. ..	1,777	1,721	4,836
Spelter, scrap and dust ..	2,847	4,002	2,679
Plates and sheets .. ..	72	345	759
Netherlands—			
Ore .. ..	63	606	30
Spelter and scrap .. ..	29,435	24,329	21,184
Sheets, wire and dust ..	2,483	2,981	2,423
Oxide .. ..	40	152	45
Norway—			
Ore .. ..	—	2,510	11,131
Spelter .. ..	2,087	3,013	26,669
Zinc-white .. ..	—	12	37
Ashes .. ..	544	265	442
Poland—			
Ores and slag .. ..	278	1,382	1,044
Spelter, dust and scrap ..	113,900	127,187	130,042
Refined zinc .. ..	17,058	10,961	7,763
Sheets, tubes and wire ..	11,665	13,905	12,423
Zinc-white and lithopone ..	2,917	3,464	1,983
Rumania—			
Ore and scrap .. ..	997	(a)	6,984
Russia (years ended Sept. 30)—			
Calamine .. ..	22,388	31,286	32,014
Spain (including re-exports)—			
Blende .. ..	68,822	73,820	81,639
Calamine .. ..	23,458	22,139	41,802
Spelter and scrap .. ..	5,312	3,418	2,876

## EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Ore .. .. .	39,351	74,001	71,301
Spelter, sheets and scrap ..	5,975	5,363	4,475
Zinc-white .. .. .	1,823	1,521	1,329
Switzerland—			
Spelter and scrap .. ..	3,486	3,794	3,488
Zinc-white, etc. .. ..	24	29	1
Algeria—			
Ore .. .. .	31,563	28,692	16,453
Spelter, plates and scrap ..	437	510	477
Egypt—			
Spelter .. .. .	87	60	(a)
Sheets .. .. .	1	5	(a)
Morocco (French zone)—			
Ore and scrap .. .. .	702	1,968	134
Morocco (Tangier)—			
Scrap .. .. .	9	7	4
Tunis (including re-exports)—			
Ore .. .. .	10,549	5,972	4,559
Mexico—			
Ores and concentrates ( <i>Zn content</i> )	148,624	155,270	202,265
Spelter .. .. .	10,366	16,031	(a)
United States—			
Ore .. .. .	4,034	63	—
Dross .. .. .	2,811	3,116	1,037
Spelter .. .. .	22,551	12,807	3,644
Dust .. .. .	900	1,121	1,051
Sheets, strips, etc. .. ..	3,861	4,701	3,945
Oxide .. .. .	13,213	15,748	9,601
Lithopone .. .. .	2,969	4,068	3,273
Argentina—			
Ore, slag and ash .. ..	752	791	604
Bolivia—			
Ores ( <i>Zn content</i> ) .. ..	2,225	1,373	(a)

(a) Information not available.

EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Ore .. .. .	1,233	96	4
Bars and sheets .. ..	22	—	75
Peru—			
Ores, etc. ( <i>Zn content</i> ) ..	6,431	11,573	7,470
China—			
Ore .. .. .	8,166	22,205	7,470
French Indo-China (including re-exports)—			
Ore .. .. .	40,326	36,888	28,900
Spelter and scrap .. ..	3,318	4,219	3,570
Korea—			
Ore .. .. .	4,232	4,234	2,765
Turkey—			
Ore .. .. .	55	6,464	3,561
Spelter, scrap and alloys ..	292	435	156
Sheets, dust and alloys ..	1	3,292	4,290

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

Importing Country and Description	1928	1929	1930
BRITISH EMPIRE			
United Kingdom—			
Calamine .. .. .	1,261	1,300	4,674
Sulphides .. .. .	167,080	128,989	149,050
Ashes, etc. .. .. .	929	2,085	3,031
Spelter .. .. .	131,776	136,047	130,643
Sheets, plates and discs .. .. .	18,218	19,680	21,492
Oxide .. .. .	11,361	12,144	10,474
Lithopone .. .. .	20,708	21,826	20,605
Anglo-Egyptian Sudan—			
Zinc-white .. .. .	3	5	2
Kenya and Uganda—			
Bars, plates and sheets .. .. .	4	15	3
Northern Rhodesia—			
Spelter .. .. .	2	1	—
Southern Rhodesia—			
Spelter .. .. .	202	201	(a)
South West Africa—			
Spelter .. .. .	7	6	7
Tanganyika—			
Bars and sheets .. .. .	—	2	4
Union of South Africa (total imports)—			
Spelter .. .. .	2,334	2,074	2,415
Canada—			
Spelter and dust .. .. .	1,029	1,403	1,057
Sheets, plates, bars, etc. .. .. .	4,152	4,746	3,845
Zinc-white .. .. .	8,093	8,506	6,507
Lithopone .. .. .	7,271	8,664	7,166
British Borneo (Sarawak)—			
Sheets .. .. .	(£3,014)	(£3,341)	(£1,500)
British India (total imports)—			
Spelter .. .. .	6,883	6,748	7,652
Sheets, etc. .. .. .	2,493	2,338	2,138
Zinc-white .. .. .	2,377	2,358	2,710
Lithopone .. .. .	(a)	(a)	(b) 366
British Malaya (total imports)			
.. .. .	359	362	352
Ceylon—			
Sheets and plates .. .. .	73	68	60
Palestine (total imports)—			
Spelter and sheets .. .. .	101	75	254

(a) Information not available.

(b) Nine months only, April to December, 1930.

IMPORTS OF ZINC (*Cont.*)

Importing Country and Description.	1928	1929	1930
BRITISH EMPIRE ( <i>Cont.</i> )			
Australia—			
Dust ( <i>£ Australian</i> ) ..	(£169)	(£562)	(£1,457)
Blocks, sheets, scrap, etc. ..	620	460	652
Oxides .. .. .	80	137	76
Lithopone .. .. .	1,208	1,328	1,105
New Zealand—			
Spelter, bars and sheets ..	259	247	230
FOREIGN COUNTRIES			
Austria—			
Spelter, scrap and alloys ..	7,618	8,107	7,861
Sheets, bars, etc. .. ..	1,583	737	98
Zinc-white and zinc-grey ..	1,761	1,629	1,417
Lithopone, etc. .. .. .	1,863	1,946	1,975
Belgium-Luxemburg E.U.—			
Ore .. .. .	555,400	600,557	421,468
Spelter .. .. .	7,296	6,787	7,002
Sheets and wire .. .. .	60	55	571
Dust .. .. .	14	22	2,727
Lithopone .. .. .	1,739	1,511	1,446
Oxide .. .. .	2,287	2,110	2,349
Bulgaria—			
Bars, sheets and plates ..	680	921	(a)
Czechoslovakia—			
Ore .. .. .	19,232	18,569	20,084
Spelter, scrap and alloys ..	18,730	17,185	12,807
Sheets and plates .. .. .	180	304	162
Zinc-white, zinc-grey, etc.	104	142	203
Denmark—			
Spelter and scrap .. .. .	2,145	2,191	2,899
Plates and sheets .. .. .	3,616	4,085	4,824
Zinc-white .. .. .	2,214	2,320	2,086
Lithopone .. .. .	966	1,134	1,167
Estonia—			
Spelter, plates, dust and scrap	55	80	61
Zinc-white .. .. .	189	178	197
Finland—			
Spelter and sheets .. .. .	455	474	427
Zinc-white .. .. .	1,814	1,675	1,322
Lithopone, etc. .. .. .	243	316	254
France—			
Ore .. .. .	215,630	227,113	282,292
Spelter, bars and scrap ..	42,547	39,544	47,082
Sheets .. .. .	477	576	1,791
Oxide .. .. .	1,109	1,953	1,539
Lithopone .. .. .	303	163	177

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Germany—			
Ores .. .. .	160,022	176,042	132,051
Spelter, dust and scrap .. ..	141,956	135,096	108,962
Sheets and wire .. .. .	7,269	7,282	6,925
Zinc-white and zinc-grey .. ..	1,312	2,818	1,774
Lithopone .. .. .	3,521	2,568	3,416
Greece—			
Spelter .. .. .	375	469	513
Hungary—			
Spelter and scrap .. .. .	5,701	5,406	4,171
Sheets .. .. .	37	45	32
Zinc-white and zinc-grey .. ..	617	405	460
Lithopone .. .. .	1,574	1,255	1,218
Italy—			
Ore and ashes .. .. .	190	8	26
Spelter, scrap and alloyed .. ..	10,343	8,191	5,966
Sheets, wire, etc., and alloyed ..	6,161	6,283	3,997
Oxide .. .. .	1,010	1,237	610
Lithopone .. .. .	1,852	2,058	2,107
Jugoslavia—			
Ore .. .. .	10,386	19,137	11,980
Spelter and scrap .. .. .	163	30	335
Bars, sheets, wire, etc. .. ..	161	57	58
Zinc-white, lithopone, etc. .. ..	1,469	1,333	1,281
Latvia—			
Spelter, sheets and scrap .. ..	285	352	423
Zinc-white .. .. .	255	339	355
Lithopone .. .. .	173	171	90
Lithuania—			
Spelter, sheets and scrap .. ..	45	74	133
Netherlands—			
Ore .. .. .	95,147	77,186	83,845
Spelter and scrap .. .. .	5,771	5,383	6,928
Sheets, wire and dust .. .. .	9,375	9,077	9,099
Zinc-white .. .. .	4,025	3,891	4,358
Lithopone .. .. .	2,517	2,012	1,919
Oxide .. .. .	6,923	7,753	13,598
Norway—			
Ore .. .. .	717	18,400	61,000
Ashes .. .. .	1,201	265	206
Spelter, bars and sheets .. ..	2,095	2,450	2,784
Zinc-white .. .. .	2,292	2,126	2,123

(a) Information not available.

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Poland—			
Ores and slag .. ..	188,095	193,628	204,404
Spelter, dust and scrap .. ..	123	628	24
Refined zinc, sheets, etc. .. ..	183	168	5
Zinc-white and lithopone .. ..	175	154	198
Portugal—			
Sheets, etc. .. ..	561	642	637
Rumania—			
Spelter .. ..	(a)	(a)	2,271
Sheets and plates .. ..	(a)	(a)	881
Zinc oxides .. ..	(a)	(a)	1,117
Lithopone .. ..	(a)	(a)	498
Russia (years ended Sept. 30)—			
Spelter, sheets, dust, etc. .. ..	30,503	34,163	42,102
Spain (total imports)—			
Blende .. ..	—	—	8,331
Spelter and scrap .. ..	1,347	909	993
Plates, nails and wire .. ..	497	187	77
Sweden—			
Ore .. ..	6,081	7,073	2,765
Spelter and scrap .. ..	7,090	8,756	8,185
Sheets .. ..	2,330	2,620	2,809
Zinc-white .. ..	5,330	5,631	5,318
Lithopone and barytes .. ..	1,915	1,942	2,184
Switzerland—			
Spelter and scrap .. ..	6,417	7,415	6,467
Bars, sheets, pipes and wire .. ..	1,438	1,648	1,692
Zinc-white, lithopone, etc. . . .	3,799	4,204	4,323
Angola—			
Spelter, etc. . . .	29	(a)	(a)
Belgian Congo—			
Spelter, etc. . . .	35	16	10
Egypt—			
Spelter and sheets .. ..	402	300	557
Oxide .. ..	1,015	1,537	1,285
Morocco—			
Spelter, sheets and bars .. ..	291	167	328
Lithopone .. ..	49	78	160
Réunion—			
Zinc .. ..	2	1	(a)
Tunis—			
Sheets .. ..	223	232	174
Oxide .. ..	104	138	132



## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1928	1929	1930
FOREIGN COUNTRIES (Cont.)			
Costa Rica (total imports)—			
Spelter .. .. .	3,500	(a)	(a)
Oxide .. .. .	6	6	(a)
Cuba (total imports)—			
Spelter and sheets .. .. .	88	90	(a)
Mexico—			
Spelter and scrap .. .. .	1,687	1,239	971
Sheets and plates .. .. .	118	126	160
United States—			
Ore (Zn content) .. .. .	1,522	12,868	23,114
Spelter, dust and scrap .. .. .	104	284	378
Pigments (total imports) .. .. .	10,125	8,740	7,271
Argentina—			
Spelter and bars .. .. .	10,580	13,103	8,382
Sheets and plates .. .. .	2,884	3,102	3,312
Oxide .. .. .	690	982	981
Lithopone .. .. .	615	731	801
Brazil (total imports)—			
Bars, sheets and plates .. .. .	1,326	1,214	952
Zinc-white .. .. .	5,314	4,916	3,651
Chile—			
Spelter, bars and sheets .. .. .	1,793	2,474	2,711
Zinc-white, etc. .. .. .	350	419	368
Colombia—			
Zinc-white .. .. .	320	425	(a)
Peru—			
Spelter, bars, sheets, etc. .. .. .	80	59	(a)
Uruguay—			
Sheets .. .. .	147	137	(a)
Venezuela—			
Spelter .. .. .	17	29	(a)
Oxide .. .. .	266	230	(a)
China—			
Spelter and dust .. .. .	1,218	945	1,528
Sheets and plates .. .. .	1,563	1,089	1,385
Zinc-white .. .. .	752	861	1,025
Formosa—			
Zinc .. .. .	153	76	(a)
French Indo-China (total imports)—			
Sheets .. .. .	1,743	2,012	(a)
Oxide .. .. .	133	88	(a)
Japan (total imports)—			
Ore .. .. .	20,638	28,042	18,716
Spelter .. .. .	35,194	26,683	22,118
Sheets and plates .. .. .	2,827	3,125	2,760

(a) Information not available

IMPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1928	1929	1930
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Netherlands East Indies—			
Spelter and alloys .. ..	692	928	(a)
Zinc-white .. ..	1,834	2,229	(a)
Philippine Islands—			
Spelter, bars and sheets ..	83	106	251
Oxide .. ..	572	766	775
Siam (total imports)—			
Spelter .. ..	426	338	607
Syria and Lebanon—			
Spelter and sheets ..	108	269	(a)
Turkey—			
Ore .. ..	—	1	3
Spelter, scrap and alloys ..	146	1	49
Bars, tubes, wire and alloys	791	1,157	925

(a) Information not available.

## LIST OF STATISTICAL PUBLICATIONS.

## GENERAL.

- Statistics of the Iron and Steel Industries: National Federation of Iron and Steel Manufacturers.  
 Bulletins du Comité des Forges; Paris.  
 Statistische Zusammenstellungen über Aluminium, Blei, Kupfer, Nickel, Quecksilber, Silber, Zink und Zinn; Metallgesellschaft, Frankfurt-am-Main.  
 International Year-Book of Agricultural Statistics; Rome.  
 Reports by the United States Geological Survey; Washington.  
 Annual Report of the Director of the United States Mint; Washington.  
 Reports by H.M. Trade Commissioners, Commercial Diplomatic and Consular Officers on commercial and financial conditions in various countries: Department of Overseas Trade.  
 International Trade in Petroleum and its Products; Washington.

## UNITED KINGDOM.

- Annual Report of the Secretary for Mines, and of H.M. Chief Inspector of Mines.  
 Annual Report on Alkali, etc., Works by the Chief Inspectors.  
 Metal Statistics; London Metal Exchange.  
 Statistics of the Iron and Steel Industries; National Federation of Iron and Steel Manufacturers.  
 Annual Statement of the Trade of the United Kingdom with Foreign Countries and British Possessions.  
 Annual Report of the Ministry of Commerce on the Mining and Quarrying Industries in Northern Ireland, and of the Inspectors of Mines.

## IRISH FREE STATE.

- Trade and Shipping Statistics.

## MALTA.

- Customs Trade Statistics.  
 Quarterly Customs Trade Returns.

## ANGLO-EGYPTIAN SUDAN.

- Customs Returns.

## GAMBIA.

- Annual Blue Book.

## GOLD COAST.

Annual Report on the Mining Industry.  
Annual Blue Book.  
Gold Coast Gazette.

## KENYA AND UGANDA.

Trade Report.

## MAURITIUS.

Annual Blue Book.

## NIGERIA.

Annual Report of the Mines Department.  
Annual Blue Book.

## NORTHERN RHODESIA.

Annual Report of the Rhodesia Chamber of Mines.

## NYASALAND.

Annual Blue Book.

## SEYCHELLES.

Trade Report.

## SIERRA LEONE.

Annual Blue Book.

## SOMALILAND.

Colonial Report.

## SOUTHERN RHODESIA.

Annual Report of the Rhodesia Chamber of Mines.  
Trade of Southern Rhodesia.

## TANGANYIKA TERRITORY.

Annual Blue Book.  
Annual Report of Mines Department.

## UNION OF SOUTH AFRICA.

*Union.*

Annual Report of the Government Mining Engineer.  
Annual Statement of the Trade and Shipping of the Union of South Africa, and of the Territory of South-West Africa.

*South West Africa.*

Report of the Government of the Union of South Africa on South West Africa.  
Annual Statement of the Trade and Shipping of the Union of South Africa, and of the Territory of South West Africa.

## ZANZIBAR.

Annual Blue Book.

## BRITISH GUIANA.

Annual Report on the Lands and Mines Department.  
Annual Blue Book.

## BRITISH HONDURAS.

Annual Blue Book.

## CANADA.

Annual Report of the Mineral Production of Canada.  
Annual Coal Statistics for Canada.  
Annual Trade Reports of Canada.

## NEWFOUNDLAND.

Customs Returns.

## BRITISH WEST INDIES.

Annual Blue Books.— *Bahamas. Barbados. Bermuda. Grenada. Jamaica. Leeward Islands. St. Lucia. St. Vincent. Trinidad and Tobago.*

Administration Report of the Inspector of Mines, Trinidad and Tobago.

## BRITISH BORNEO.

*Brunei.*

Annual Report on the State of Brunei.

*Sarawak.*

Annual Report of the Treasury and the Post, Shipping and Customs Departments.

*State of North Borneo.*

Annual Report on the Territorial Customs Department.

## BRITISH MALAYA.

Returns of the Imports and Exports.

*Straits Settlements.*

Annual Blue Book.

*Federated Malay States.*

Annual Report on the Administration of the Mines Department and on the Mining Industries.

## CEYLON.

Trade and Customs Returns.

## CYPRUS.

Annual Blue Book.

## INDIA.

Annual Report on the Mineral Production of India in the Records of the Geological Survey of India.

Annual Statement of the Sea-Borne Trade of British India with the British Empire and Foreign Countries.

## PALESTINE.

Statistics of Imports, Exports and Shipping.

## AUSTRALIA.

*Commonwealth.*

Summary of Australian Production Statistics.

Statistics relating to Lead, Silver, Copper, Tin and Pig Iron ;  
Australian Metal Exchange.

Trade and Customs and Excise Revenue of the Commonwealth of Australia.

*New South Wales.*

Annual Report of the Department of Mines.

*Victoria.*

Gold and Mineral Statistics.

*Queensland.*

Annual Report of the Under Secretary for Mines.

*Western Australia.*

Annual Report of the Department of Mines.

*Tasmania.*

Annual Report of the Secretary for Mines.

*South Australia.*

Mining Review ; Department of Mines.

*Papua.*

Annual Report.

## FIJI.

Annual Blue Book.

## NEW ZEALAND.

Annual Mines Statement.

Statistics of the Dominion of New Zealand ; Vol. II, Trade and Shipping.

*Western Samoa.*

Trade, Commerce and Shipping of the Territory of Western Samoa.

## AUSTRIA.

Mitteilungen über den österreichischen Bergbau.  
Statistik des auswärtigen Handels Österreichs.

## BELGIUM.

Statistique des Industries Extractives et Métallurgiques.

## BELGIUM-LUXEMBURG ECONOMIC UNION.

Bulletin Mensuel du Commerce avec les Pays Etrangers.

## BULGARIA.

Statistique du Commerce du Royaume de Bulgarie avec les Pays Etrangers.

## CZECHOSLOVAKIA.

Zprávy statního úřadu statistického Republiky Československé.  
Commerce Extérieur de la République Tchécoslovaque.

## DENMARK.

Danmarks Vareindførsel og -Udførsel.  
Vareomsætningen med Udlandet.

## ESTONIA.

Väliskaubandus (Commerce Extérieur de l'Estonie).

## FINLAND.

Finlands Utrikeshandel.

## FRANCE.

Statistique de l'Industrie Minérale en France et en Algérie.  
Annales des Mines.  
Comité d'Etudes Minières pour la France d'outre-mer.  
Bulletins du Comité des Forges.  
Tableau Général du Commerce Exterior.  
Statistique mensuelle du commerce extérieur de la France.

## GERMANY.

Vierteljahrshefte zur Statistik des Deutschen Reichs.  
Statistische Zusammenstellungen über Aluminium, Blei, Kupfer,  
Nickel, Quecksilber, Silber, Zink und Zinn; Metallgesellschaft,  
Frankfurt-am-Main.  
Monatliche Nachweise über den auswärtigen Handel Deutschlands.

## GREECE.

Tableaux Statistiques du Mouvement Minier de la Grèce.  
Bulletin Mensuel du Commerce Spécial de la Grèce avec les Pays  
Etrangers.

## HUNGARY.

Bulletin Statistique Mensuel Hongrois.

## ICELAND.

Hagtidindi Gefn ut af Hagstofú- Islands.

## ITALY.

Relazione sul Servizio Minerario.  
Statistica del Commercio Speciale di Importazione e di Esportazione.  
Movimento commerciale del regno d'Italia.  
Annuario Statistics Italiano.

## JUGOSLAVIA.

Statistique du Commerce Extérieur du Royaume des Yougoslavie.

## LATVIA.

Commerce extérieur et transit de la Lettonie.

## LITHUANIA.

Annuaire Statistique de la Lithuanie.  
Statistikos Biuletėnis.

## LUXEMBURG.

Rapport Général sur la Situation de l'Industrie et du Commerce.  
Les industries extractives du Grand-Duché de Luxembourg.

## NETHERLANDS.

Jaarverslag van den Hoofdingenieur der Mijnen.  
Jaarstatistiek van den In-, Uit-, en Doorvoer; Part I.  
Maandstatistiek van den In-, Uit-, en Doorvoer; Part I.

## NORWAY.

Norges Bergverksdrift.  
Norges Handel.

## POLAND.

Annuaire Statistique de la République Polonaise.  
Rapports Mensuels du Commerce Etranger.  
Commerce Extérieur de la République Polonaise.

## PORTUGAL.

Estatistica Comercial.  
Boletim de Minas.

## RUMANIA.

Statistica Miniera a României.  
Comerțul Exterior al României.



## RUSSIA.

Annual Report on the Mineral Resources of the U.S.S.R.; Geological Committee, Leningrad.

## SPAIN.

Estadística Minera de España.  
Estadística del Comercio Exterior de España.

## SWEDEN.

Industri och Bergshantering Berättelse av Kommerskollegium.  
Sveriges Handel.

## SWITZERLAND.

Statistique du Commerce de la Suisse avec l'Etranger.

## ALGERIA.

Statistique de l'Industrie Minérale en France et en Algérie.  
Documents Statistiques sur le Commerce de l'Algérie.

## ANGOLA.

Estatística Comercial ; Direcção dos Serviços Aduaneiros.  
Boletim d'Aagencia Geral das Colonias.

## BELGIAN CONGO.

Statistique du Commerce Extérieur du Congo Belge.  
Bulletin de l'Office Colonial.

## EGYPT.

Annual Statement of the Foreign Trade of Egypt.  
Monthly Summary of the Foreign Trade of Egypt.

## FRENCH POSSESSIONS IN AFRICA.

L'Agronomie Coloniale.  
Annuaire Economique Colonial ; Institut Colonial de Marseille.  
Renseignements Généraux sur le Commerce des Colonies Françaises  
et la Navigation.  
Statistiques du Mouvement Commercial et Maritime du Maroc  
(Protectorat Français et Zone de Tanger).  
Bulletin Mensuel de l'Agence Economique de l'Afrique Occidentale  
Française.

## MADAGASCAR.

Bulletin Économique Mensuel de Madagascar.  
Bulletin des Mines.  
L'Agronomie Coloniale.

## MOZAMBIQUE.

Colonia de Mocambique ; Estatística do Comércio e Navegação.

## TUNIS.

Statistique de l'Industrie Minérale en France et en Algérie.  
Documents Statistiques sur le Commerce de la Tunisie.

## COSTA RICA.

Anuario Estadístico.

## CUBA.

Comercio Exterior.

## GUATEMALA.

Boletín de Aduanas.

## MEXICO.

Anuario de Estadística Minera.

## NICARAGUA.

Report of the Collector General of Customs, Managua.

## PANAMA.

Dirección General de Estadística ; Sección Comercial-Económica.

## SALVADOR.

Estadística Comercial.

## UNITED STATES.

Mineral Resources of the United States ; United States Geological Survey.

Annual Report of the Director of the Mint.

Foreign Commerce and Navigation of the United States.

Monthly Summary of Foreign Commerce of the United States, Parts I. and II.

Annual Statistical Report of the American Iron and Steel Institute.

## ARGENTINA.

El Comercio Exterior Argentino.

Anuario del Comercio Exterior de la República Argentina.

Estadística minera de la Nación.

## BOLIVIA.

Comercio Especial de Bolivia.

## BRAZIL.

Comercio Exterior do Brasil.

## CHILE.

Estadística Anual de la República de Chile. (Vol. VII, Comercio Exterior.)

## COLOMBIA.

Anuario Estadístico ; Comercio Exterior.

## ECUADOR.

Boletín de Hacienda.

## PERU.

Statistical Abstract of Peru.  
Estadística del Comercio Especial del Peru.

## URUGUAY.

Boletin del Ministerio de Hacienda.

## VENEZUELA.

Memoria del Ministerio de Fomento.  
Estadística Mercantil y Marítima.

## CHINA

Foreign Trade of China.

## FORMOSA.

Financial and Economic Annual of Japan.  
Annual Return of the Trade of Taiwan (Formosa).

## FRENCH INDO-CHINA.

Bulletin Economique de l'Indo-Chine.

## FRENCH PACIFIC POSSESSIONS.

Statistique de l'Industrie Minérale en France et en Algérie.  
Renseignements Généraux sur le Commerce des Colonies Françaises et  
la Navigation.  
L'Agronomie Coloniale.

## JAPAN.

The Statistics of the Department of Commerce and Industry.  
The Financial and Economic Annual of Japan.  
Monthly Return of the Foreign Trade of Japan.  
Monthly Report on Current Economic Conditions.

## KOREA (Chosen).

Table of Trade and Shipping of Chosen.

## NETHERLANDS EAST INDIES.

Jaarboek van het Mijnwezen in Nederlandsch-Oost-Indië.  
Jaaroverzicht van den In-en Uitvoer van Nederlandsch-Indië, Deel  
I en II.

## PERSIA.

Statistique Commerciale de la Perse ; Tableau Général du Commerce  
avec les Pays Etrangers.

PHILIPPINE ISLANDS.

Annual Report of the Insular Collector of Customs.

SIAM.

Annual Statement of the Foreign Trade and Navigation of the Kingdom of Siam.

SYRIA AND LEBANON.

Statistiques Générales du Commerce Extérieur des Etats du Levant sous Mandat Français.

TURKEY.

Statistique Annuelle du Commerce Extérieur de la Turquie.







