

IMPERIAL INSTITUTE

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THE MINERAL INDUSTRY OF  
THE BRITISH EMPIRE  
AND  
FOREIGN COUNTRIES

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STATISTICAL SUMMARY  
(Production, Imports and Exports)  
1927-1929



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## INTRODUCTORY NOTE

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

Trade statistics 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 and Formosa do not include trade between each of these two countries and the rest of the Japanese Empire. Trade figures for Korea 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	1927	1928	1929
BRITISH EMPIRE.			
Southern Rhodesia—			
Corundum .. .. .	—	22	20
Union of South Africa—			
Corundum .. .. .	917	1,550	3,249
Canada—			
Garnet .. .. .	2	—	—
Grindstones .. .. .	1,176	1,656	1,114
Pulpstones .. .. .	813	} 328	437
Sharpening stones .. .. .	21		
India—			
Corundum .. .. .	65	21	34
Garnet sand .. .. .	285	480	(a)
New Zealand—			
Pumice (b) .. .. .	1,733	2,301	2,242
FOREIGN COUNTRIES.			
France—			
Millstones .. .. .	24,600	(a)	(a)
Sharpening stones .. .. .	1,400	(a)	(a)
Germany (Bavaria)—			
Emery .. .. .	379	(a)	388
Greece—			
Emery .. .. .	15,598	12,922	(a)
Millstones (number)— .. .. .	4,472	5,330	(a)
Italy—			
Pumice .. .. .	35,609	27,000	(a)
Grindstones .. .. .	1,653	1,114	(a)
Sharpening stones .. .. .	994	945	(a)
Whetstones .. .. .	1,033	851	(a)
Russia (years ended Sept. 30)—			
Corundum .. .. .	2,636	6,876	(a)
Emery .. .. .	4,012	609	(a)
Pumice .. .. .	439	3,050	(a)
Grindstones and millstones .. .. .	6,476	(a)	(a)
do. (additional) (pairs) .. .. .	1,159	(a)	(a)
do. do. (number) .. .. .	2,786	(a)	(a)
do. do. (cu.metres) .. .. .	400	(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	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Sweden—			
Millstones, etc. . . . .	60	150	(a)
Madagascar (exports) —			
Corundum . . . . .	143	113	41
United States—			
Emery . . . . .	452	1,197	825
Garnet . . . . .	6,196	5,908	5,322
Pumice . . . . .	47,587	51,277	54,351
Tripoli . . . . .	23,303	30,396	33,938
Millstones, chasers, etc. . . . .	(£7,292)	(£8,824)	(£6,466)
Grindstones . . . . .	20,734	21,627	18,813
Pulpstones . . . . .	7,776	8,050	5,951
Oilstones, whetstones, etc. . . . .	936	854	748
Japan—			
Pumiceous sand . . . . .	49,377	76,531	(a)
Turkey—			
Emery . . . . .	6,515	10,959	7,483
Millstones ( <i>number</i> ) . . . . .	(a)	(a)	2,740

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

	1927	1928	1929
Silicon carbide . . . . .	23,472	19,788	(a)
Aluminium oxide . . . . .	45,512	52,771	(a)
Metallic abrasives . . . . .	11,932	16,488	(a)

(a) Information not available.

## EXPORTS OF ABRASIVES

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Natural abrasives .. ..	4,432	4,505	4,552
Artificial abrasives .. ..	321	314	272
Oil stones .. .. .	8	1	2
Grinding wheels of—			
Artificial corundum, etc. ..	56	14	34
Carborundum .. .. .	280	292	423
Emery .. .. .	119	188	183
Other hard abrasives .. ..	19	33	41
Grindstones, millstones and whetstones.. .. .	9,331	7,619	7,672
Union of South Africa—			
Corundum .. .. .	908	1,632	3,355
Canada—			
Natural abrasives, including diatomaceous earth.. ..	246	262	370
Artificial abrasives .. ..	44,657	55,147	70,170
Artificial abrasive wheels, etc.	(£7,914)	(£13,084)	(£10,968)
Grindstones .. .. .	(£10,466)	(£5,900)	(£7,498)
New Zealand—			
Pumice .. .. .	1,733	2,301	2,442
FOREIGN COUNTRIES			
Austria—			
Emery .. .. .	59	60	68
Pumice .. .. .	88	100	116
Belgium-Luxemburg E. U.—			
Abrasive .. .. .	303	44	201
Czechoslovakia—			
Carborundum .. .. .	98	51	50
Emery and pumice .. ..	17	11	11
Grindstones, etc., natural ..	233	220	275
do. carborundum .. ..	228	408	367
do. emery, etc... ..	469	537	622
Other abrasives.. .. .	76	77	13

EXPORTS OF ABRASIVES (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Denmark—			
Emery, etc. .. .. .	—	3	(a)
France—			
Corundum .. .. .	210	} 3,512	5,498
Emery, ground .. .. .	854		
Pumice .. .. .	175	232	210
Millstones and grindstones ..	6,485	8,157	7,320
Whetstones .. .. .	601	433	445
Artificial abrasives .. .. .	(a)	564	1,241
Germany—			
Emery .. .. .	1,129	1,223	1,371
Other abrasives .. .. .	7,640	9,204	10,558
Greece—			
Emery .. .. .	12,909	15,797	12,964
Hungary—			
Emery .. .. .	1	1	1
Millstones .. .. .	110	132	54
Grindstones .. .. .	27	24	14
Italy—			
Emery and corundum .. .. .	33	51	21
Pumice .. .. .	36,244	35,026	45,255
Whetstones, natural .. .. .	365	427	293
Grindstones, natural .. .. .	25	27	14
Millstones, natural .. .. .	249	331	211
do. artificial .. .. .	27	33	15
Artificial abrasives .. .. .	15	3	2
Jugoslavia—			
Millstones .. .. .	275	271	211
Grindstones .. .. .	998	969	989
Artificial abrasives .. .. .	16	23	14
Netherlands—			
Emery .. .. .	1,782	2,315	2,447
Poland—			
Grindstones and millstones ..	418	194	(a)
Sweden—			
Emery .. .. .	22	23	32
Carborundum, etc. .. .. .	227	322	375
Switzerland—			
Carborundum, etc., crude ..	118	19	16
do. ground .. .. .	864	1,047	967
Madagascar—			
Corundum .. .. .	143	113	41



EXPORTS OF ABRASIVES (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
United States—			
Wheels of emery and corundum	309	329	371
Grindstones .. .. .	4,980	4,747	3,383
Other natural abrasives ..	3,647	4,298	4,319
Crude artificial abrasives ..	5,989	8,204	7,208
Artificial abrasive wheels ..	2,387	2,807	2,892
Other artificial abrasives ..	3,056	3,609	2,586
Turkey—			
Emery and carborundum ..	6,717	2,795	697
Millstones and grindstones ..	488	273	81
Whetstones, pumice, etc. ..	2	266	51

(a) Information not available.

## IMPORTS OF ABRASIVES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Emery .. .. .	8,335	10,046	8,997
Artificial corundum .. .. .	2,244	1,883	2,521
Carborundum .. .. .	1,435	2,234	2,165
Other hard abrasives .. .. .	5,834	11,043	12,157
Oil stones .. .. .	22	15	6
Grinding wheels of—			
Artificial corundum, etc. .. .. .	552	548	565
Carborundum .. .. .	96	145	200
Emery .. .. .	115	79	114
Other hard abrasives .. .. .	30	40	34
Grindstones, millstones and whetstones .. .. .	512	473	378
Irish Free State—			
Manufactured abrasives .. .. .	(£13,760)	(£12,963)	(£20,465)
Kenya and Uganda—			
Grindstones .. .. .	7	5	6
Tanganyika—			
Grindstones .. .. .	8	7	5
Union of South Africa—			
Emery .. .. .	9	11	9
Pumice .. .. .	39	80	59
Other abrasives .. .. .	(£1,517)	(£1,311)	(£1,637)
Emery and other wheels .. .. .	(£13,548)	(£10,119)	(£10,822)
Canada—			
Pumice, etc. .. .. .	(£7,245)	(£9,865)	(£7,348)
Emery, ground .. .. .	(£9,599)	(£10,938)	(£11,125)
Artificial abrasives, ground .. .. .	(£44,480)	(£50,240)	(£51,442)
Carborundum, partly manu- factured .. .. .	(£27,043)	(£45,646)	(£44,864)
Emery or carborundum manu- factures .. .. .	(£27,552)	(£39,640)	(£47,591)
Grindstones .. .. .	(£187,594)	(£134,111)	(£91,637)
Ceylon—			
Grindstones .. .. .	(£303)	(£1,168)	(£1,774)
Other abrasives .. .. .	(£54)	(£418)	(£820)
Australia—			
Abrasive .. .. .	(£23,346)	(£19,968)	(£21,838)

IMPORTS OF ABRASIVES (*Cont.*)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE ( <i>Cont.</i> )			
New Zealand—			
Pumice .. .. .	5	3	11
Grindstones, etc. .. ..	(£5,785)	(£6,732)	(£7,796)
FOREIGN COUNTRIES			
Austria—			
Emery .. .. .	457	425	511
Pumice.. .. .	452	641	540
Belgium-Luxemburg E.U.—			
Abrasives .. .. .	4,806	4,260	4,392
Bulgaria—			
Grindstones, etc. .. ..	938	1,046	857
Czechoslovakia—			
Carborundum .. .. .	633	608	591
Pumice .. .. .	164	102	46
Emery .. .. .	571	622	530
Grindstones, etc.—natural ..	2,030	2,280	2,276
do. carborundum ..	36	55	50
do. emery, etc. ..	170	214	255
Other abrasives.. .. .	6	8	5
Denmark—			
Emery, etc. .. .. .	125	94	114
Pumice .. .. .	169	134	196
Estonia—			
Grindstones, etc.—natural ..	325	740	408
do. artificial .. .. .	16	18	18
Millstones .. .. .	92	70	55
Finland—			
Emery .. .. .	260	287	175
Pumice .. .. .	75	83	61
Other abrasives .. .. .	19	58	21
France—			
Pumice .. .. .	9,526	15,128	20,644
Millstones and grindstones ..	210	227	434
Whetstones .. .. .	219	471	452
Other natural abrasives ..	2,152	3,490	4,130
Carborundum .. .. .	37	493	952
Other artificial abrasives ..	31	673	1,528
Germany—			
Emery .. .. .	5,055	3,438	3,909
Carborundum .. .. .	5,422	5,895	3,870
Other abrasives .. .. .	159	262	152
Hungary—			
Emery .. .. .	95	102	83
Millstones .. .. .	93	83	72
Grindstones .. .. .	1,471	1,349	1,034

IMPORTS OF ABRASIVES (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
<b>Italy—</b>			
Emery and corundum.. ..	753	744	761
Artificial abrasives .. ..	345	350	555
Pumice .. .. .	—	—	39
Whetstones, natural .. ..	153	174	1,280
Grindstones, natural .. ..	1,195	1,274	1,218
Millstones, natural .. ..	162	165	284
do artificial .. ..	181	137	176
<b>Jugoslavia—</b>			
Abrasives .. .. .	117	280	397
Millstones .. .. .	134	181	149
Grindstones, natural .. ..	116	113	95
do. artificial .. ..	128	170	189
<b>Latvia—</b>			
Emery .. .. .	72	29	30
Pumice .. .. .	19	23	22
<b>Lithuania—</b>			
Emery .. .. .	2	3	(a)
<b>Netherlands—</b>			
Emery .. .. .	2,579	2,988	3,070
<b>Poland—</b>			
Grindstones .. .. .	645	651	} 2,528
Millstones .. .. .	483	557	
Other abrasives .. .. .	453	629	
<b>Portugal—</b>			
Emery .. .. .	67	41	66
<b>Russia (years ended Sept. 30.)—</b>			
Pumice .. .. .	18	2	3
Emery and corundum, ground	126	38	25
Abrasive stones .. .. .	890	944	1,127
<b>Spain (total imports)—</b>			
Emery .. .. .	100	87	179
Carborundum .. .. .	5	8	4
<b>Sweden—</b>			
Emery .. .. .	477	646	659
Rottenstone .. .. .	211	218	232
Carborundum, etc. .. ..	117	150	125
<b>Switzerland—</b>			
Carborundum, etc., crude ..	139	370	209
do. ground.. .. .	249	334	351
<b>Algeria—</b>			
Emery .. .. .	134	10	6
Pumice .. .. .	60	78	87
Grindstones .. .. .	174	55	32

## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description.	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
Togoland—			
Abrasives .. .. .	13	18	11
Tunis—			
Emery and pumice .. ..	38	198	50
United States—			
Corundum, crude .. ..	1,133	1,400	3,378
Emery, crude .. .. .	4,126	4,846	5,517
Corundum and emery, ground	103	151	389
Pumice .. .. .	7,972	9,910	8,633
Tripoli, etc. .. .. .	1,195	2,328	2,911
Grindstones .. .. .	1,787	1,583	1,680
Crude artificial abrasives ..	42,462	50,261	67,653
Argentina—			
Emery .. .. .	268	145	(a)
Brazil (total imports)—			
Emery and glass powder ..	106	134	108
Chile—			
Emery and pumice .. ..	40	53	33
Colombia—			
Emery and pumice .. ..	15	(a)	(a)
Grindstones .. .. .	29	(a)	(a)
Peru—			
Emery and pumice .. ..	20	9	10
Grindstones .. .. .	13	19	16
China—			
Corundum .. .. .	35	39	44
Dutch East Indies—			
Emery .. .. .	54	56	(a)
French Indo-China—			
Emery, ground.. .. .	182	234	317
Pumice .. .. .	5	(a)	(a)
Grindstones .. .. .	41	51	30
Japan (total imports)—			
Abrasives .. .. .	1,710	2,089	2,803
Grindstones, artificial ..	118	89	91
Turkey—			
Emery and carborundum, crude	4	10	7
Millstones and grindstones ..	297	387	660
Whetstones, pumice, etc. ..	93	137	123

(a) Information not available.



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

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Northern Ireland .. ..	5,309	2,285	2,322
British Guiana .. ..	189,936	197,718	216,652
India .. .. .	4,310	14,667	9,044
Australia .. .. .	921	193	546
Total .. ..	200,000	215,000	229,000
<b>FOREIGN COUNTRIES</b>			
France .. .. .	643,000	588,368	632,865
Germany .. .. .	2,362	5,000	7,141
Greece .. .. .	4,232	295	(a)
Hungary .. .. .	334,102	389,522	383,006
Italy .. .. .	93,800	159,667	194,000
Jugoslavia .. .. .	98,741	48,486	91,555
Rumania .. .. .	1,679	643	911
Spain .. .. .	—	178	(a)
United States .. .. .	320,940	375,426	365,777
Dutch Guiana .. .. .	178,716	210,488	206,681
Total .. ..	1,680,000	1,780,000	1,880,000
<b>WORLD'S TOTAL ..</b>	<b>1,880,000</b>	<b>2,000,000</b>	<b>2,110,000</b>

Information regarding the production in Austria is not available.

(a) Information not available.

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

Year	Long tons
1927 .. .. .	18,989
1928 .. .. .	25,524
1929 .. .. .	29,300

## ESTIMATED PRODUCTION OF ALUMINIUM

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	9,500	9,500	8,000
Canada .. ..	27,000	25,000	38,000
Total ..	36,500	34,500	46,000
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	3,000	3,000	4,000
France .. ..	(i) 24,646	26,000	29,000
Germany .. ..	27,000	31,000	32,000
Italy (i) .. ..	2,504	3,561	6,925
Norway(i) .. ..	20,518	24,388	28,682
Spain .. ..	—	500	1,000
Switzerland .. ..	21,000	21,800	19,000
United States .. ..	84,300	93,750	100,450
Total ..	183,000	204,000	221,000
WORLD'S TOTAL ..	219,000	239,000	267,000

(i) Official figures.

## EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Alumina.. ..	11,415	15,454	20,586
Ingots, etc., alloy and scrap ..	4,906	5,888	5,638
Sheets, tubes, wire, etc. ..	4,249	3,831	3,774
Aluminium sulphates .. ..	13,332	13,362	14,654

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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE (Cont.)			
Canada —			
Blocks, bars, scrap, etc. ..	23,414	18,928	34,101
British Guiana—			
Bauxite .. .. .	160,933	167,621	182,692
British Malaya (including re-exports)—			
Aluminium sulphate .. ..	—	2,600	3,374
Australia (including re-exports)—			
Aluminium .. .. .	(£83)	(£38)	(£449)
Aluminium sulphates .. ..	8	5	6
FOREIGN COUNTRIES			
Austria—			
Bauxite and cryolite .. ..	2,712	4,880	8
Crude aluminium and its alloys	4,176	3,974	3,918
Sheets, rods, wire, etc. ..	137	220	176
Foil .. .. .	11	16	18
Aluminium sulphates .. ..	407	263	570
Belgium-Luxemburg E.U.—			
Crude aluminium .. ..	419	725	1,035
Sheets, wire, etc. .. ..	17	67	135
Aluminium sulphates .. ..	260	173	2,974
Czechoslovakia—			
Cryolite .. .. .	19	8	9
Denmark—			
Refined cryolite .. ..	12,341	15,263	17,834
Leaf .. .. .	2	—	(a)
France—			
Bauxite .. .. .	258,195	246,794	236,617
Alumina .. .. .	25,810	33,898	39,698
Ingots and scrap .. ..	6,640	3,031	2,155
Sheets, wire, etc. .. ..	1,466	2,477	2,009
Aluminium sulphates .. ..	29,821	30,016	23,176
Germany—			
Bauxite and cryolite .. ..	115	191	114
Crude aluminium and scrap ..	4,990	3,516	4,050
Sheets, wire, castings, etc. ..	3,583	4,250	4,592
Aluminium sulphates, etc., including refined bauxite ..	72,515	86,899	93,386
Hungary—			
Bauxite .. .. .	(b) 232,792	180,589	98,961
Crude aluminium scrap and alloys .. .. .	8	25	38

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

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Italy—</b>			
Crude aluminium, scrap and alloyed .. .. .	276	183	119
Sheets, tubes, powder and alloyed	35	72	62
Aluminium sulphates .. ..	57	40	42
<b>Jugoslavia—</b>			
Bauxite .. .. .	95,792	39,584	66,198
Crude aluminium and scrap ..	—	3	3
<b>Netherlands—</b>			
Crude aluminium and scrap ..	357	373	371
Foil .. .. .	15	41	23
Aluminium sulphates .. ..	4	4	5
<b>Norway—</b>			
Ingots and scrap .. .. .	21,755	16,637	29,230
Sheets .. .. .	60	395	623
<b>Poland—</b>			
Crude aluminium and sheets ..	—	2	12
<b>Russia (years ended Sept. 30)—</b>			
Bauxite .. .. .	—	88	335
<b>Spain (including re-exports)—</b>			
Ingots and scrap .. .. .	93	37	290
<b>Sweden—</b>			
Ingots, sheets and strips .. ..	11	21	30
Aluminium sulphates .. ..	6,469	9,057	11,400
<b>Switzerland—</b>			
Alumina, etc. .. .. .	57	86	5
Blocks, ingots, etc., and scrap ..	13,180	14,807	13,002
ditto (alloyed) .. .. .	1,599	1,696	2,270
Bars, sheets, tubes and wire ..	1,650	1,817	1,324
<b>Greenland—</b>			
Cryolite .. .. .	18,989	25,524	29,300
<b>Algeria—</b>			
Ingots .. .. .	32	69	(a)
<b>United States—</b>			
Bauxite, etc. .. .. .	121,858	112,984	133,551
Ingots, scrap and alloys .. ..	1,514	1,067	274
Plates, sheets, etc. .. .. .	4,910	5,954	7,330
Aluminium sulphates .. ..	18,865	20,280	23,311
<b>Dutch Guiana—</b>			
Bauxite .. .. .	173,507	210,488	206,681
<b>China—</b>			
Aluminium sulphates .. ..	2,327	2,389	3,109
<b>Japan—</b>			
Plates and sheets .. .. .	(a)	163	405
<b>Turkey—</b>			
Ingots, bars, sheet, etc. (including alloys) .. .. .	21	13	11

(a) Information not available.

(b) Export figures not available. Figures shown represent imports into Germany from Hungary.

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

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Bauxite .. .. .	89,045	109,504	121,164
Cryolite .. .. .	1,164	1,547	1,714
Alumina .. .. .	107	1,060	909
Ingots, etc., alloy and scrap ..	15,155	13,368	22,289
Sheets, tubes, wire, etc. ..	3,773	5,117	6,440
Aluminium sulphates .. ..	22,297	26,999	26,959
Kenya and Uganda—			
Sheets and wire .. ..	25	39	60
Northern Rhodesia—			
Bars, etc. .. ..	—	—	68
Southern Rhodesia—			
Ingots and bars .. ..	—	—	71
Union of South Africa—			
Ingots, bars, sheet and foil ..	78	112	505
Aluminium sulphates .. ..	236	163	133
Canada—			
Bauxite .. .. .	(a)	(b) 116,860	126,999
Cryolite .. .. .	1,093	3,092	2,144
Alumina .. .. .	113,051	29,352	406
Ingots, rods, sheets, etc. ..	542	662	758
Leaf and foil .. .. .	(£53,691)	(£47,827)	(£40,295)
Aluminium sulphates .. ..	19,660	21,498	24,878
Newfoundland (years ended June 30)—			
Aluminium sulphates .. ..	(£949)	(£978)	(£2,905)
British India (total imports)—			
Ingots, blocks, bars, etc. ..	223	93	51
Sheets and circles .. ..	5,514	5,801	8,057
Aluminium sulphates .. ..	6,153	5,805	6,095
British Malaya (total imports)—			
Aluminium sulphates .. ..	—	4,141	4,879
Australia—			
Cryolite .. .. .	64	104	174
Pigs, ingots, blocks, etc. ..	275	347	679
Sheets, pipes, tubes, rods, etc.	671	559	631
Aluminium sulphates .. ..	65	81	92
New Zealand—			
Aluminium sulphates .. ..	68	156	32
Bars, sheets, tubes, etc. ..	15	27	44
FOREIGN COUNTRIES			
Austria—			
Bauxite .. .. .	198	636	396
Cryolite .. .. .	447	255	389
Crude aluminium and its alloys	502	948	759
Sheets, rods, wire, etc. ..	377	610	603
Aluminium sulphates .. ..	107	308	186



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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E. U.—			
Bauxite, etc. . . . .	2,176	1,669	2,456
Crude aluminium . . . .	1,468	1,607	3,062
Sheets, wire, etc. . . .	650	570	682
Aluminium sulphates . .	5,776	4,171	901
Bulgaria—			
Aluminium sulphates . .	207	332	(a)
Czechoslovakia—			
Cryolite . . . . .	544	487	510
Sheets and plates . . . .	356	461	408
Denmark—			
Crude cryolite . . . . .	14,090	15,919	21,060
Crude aluminium . . . .	110	123	145
Leaf . . . . .	88	100	80
Aluminium sulphates . .	981	1,104	1,155
Estonia—			
Aluminium sulphates . .	825	1,491	1,135
Finland—			
Crude aluminium and scrap . .	8	14	26
Plates and sheets . . . .	77	137	113
Aluminium sulphates . . . .	4,628	5,420	5,616
France—			
Alumina . . . . .	5	16	4
Ingots and scrap . . . .	384	150	242
Sheets, wire, etc. . . . .	47	105	178
Aluminium sulphates . . . .	22	31	73
Germany—			
Bauxite and cryolite . . . .	531,476	425,431	380,860
Crude aluminium and scrap . .	12,593	14,548	14,021
Sheets, wire, etc. . . . .	218	427	422
Aluminium sulphates, etc., including refined bauxite . .	2,821	1,766	2,889
Greece—			
Aluminium . . . . .	20	21	46
Hungary—			
Crude, scrap and alloys . . . .	159	264	455
Bars, sheets and wire . . . .	67	72	51
Foil . . . . .	19	31	27
Aluminium sulphates . . . .	795	927	1,143

(a) Information not available.

(b) From April 1st, 1928.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Italy—			
Alumina, etc. . . . .	2,717	4,667	11,475
Crude aluminium, scrap and alloyed . . . . .	3,592	823	2,386
Sheets, tubes, powder and alloyed . . . . .	435	909	861
Aluminium sulphates . . . . .	3,714	5,498	6,348
Jugoslavia—			
Bauxite . . . . .	182	1	—
Crude aluminium . . . . .	16	19	22
Sheets, pipes and wire . . . . .	46	138	57
Aluminium sulphates . . . . .	348	336	299
Latvia—			
Ingots, sheets, scrap, etc. . . . .	37	66	121
Aluminium sulphates . . . . .	696	697	1,191
Netherlands—			
Crude aluminium and scrap . . . . .	469	650	1,166
Foil . . . . .	249	393	258
Aluminium sulphates . . . . .	337	417	564
Norway—			
Bauxite . . . . .	316	7,529	16,376
Cryolite . . . . .	1,923	2,347	2,265
Alumina . . . . .	41,660	44,276	51,301
Crude aluminium . . . . .	2	89	4
Bars, sheets, etc. . . . .	353	237	255
Aluminium sulphates . . . . .	3,792	4,743	4,547
Poland—			
Bauxite . . . . .	20	1	(a)
Crude aluminium and scrap . . . . .	427	668	706
Sheets and wire . . . . .	209	442	397
Sulphates . . . . .	430	184	144
Portugal—			
Aluminium and alloys . . . . .	56	105	92
Aluminium sulphates . . . . .	426	353	432
Rumania—			
Crude aluminium and scrap . . . . .	76	(a)	(a)
Sheets, wire, etc. . . . .	19	(a)	(a)
Aluminium sulphates . . . . .	1,558	(a)	(a)
Russia (years ended Sept. 30)—			
Aluminium . . . . .	2,795	5,702	5,051
Spain (total imports)—			
Alumina . . . . .	1,330	2,483	3,011
Ingots and scrap . . . . .	1,679	1,250	67
Bars, sheets, tubes and wire . . . . .	165	216	114
Sweden—			
Crude aluminium . . . . .	1,097	1,742	1,585
Sheets and strips . . . . .	324	455	367
Aluminium sulphates . . . . .	758	718	794

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Alumina, etc. . . . .	39,686	44,825	41,534
Blocks, ingots, etc., and scrap	516	719	507
ditto (alloyed) . . . .	75	93	58
Bars, sheets, tubes and wire . .	32	64	41
ditto (alloyed) . . . .	27	86	38
Aluminium sulphates . . . .	398	311	271
Egypt—			
Aluminium sulphates . . . .	2,576	2,978	3,016
French West Africa—			
Aluminium . . . . .	34	43	14
United States—			
Bauxite . . . . .	356,580	350,111	380,812
Cryolite . . . . .	5,064	6,906	7,778
Crude aluminium, scrap, etc. . .	30,531	16,735	21,574
Sheets, bars, etc. . . . .	179	12	10
Refined bauxite . . . . .	70	250	128
Aluminium sulphates . . . .	684	498	1,127
Argentina—			
Ingots and sheets . . . . .	196	214	(a)
Aluminium sulphates . . . .	1,901	3,250	(a)
Brazil (total imports)—			
Bars, sheets and wire . . . .	696	1,038	773
Chile—			
Bars and sheets . . . . .	62	90	47
Aluminium sulphates . . . .	308	445	141
Colombia—			
Ingots, bars and rods . . . .	54	(a)	(a)
Aluminium sulphates . . . .	40	(a)	(a)
Peru—			
Aluminium sulphates . . . .	77	119	95
China—			
Sheets . . . . .	309	352	441
Dutch East Indies—			
Ingots, sheets, wire and alloys	625	728	(a)
Aluminium sulphates . . . .	6,685	6,029	(a)
Formosa—			
Aluminium sulphates . . . .	195	106	(a)
French Indo-China—			
Aluminium . . . . .	56	4,386	88
Aluminium sulphates . . . .	219	131	237
Japan (total imports)—			
Cryolite . . . . .	621	874	1,015
Ingots, blocks, etc. . . . .	5,885	9,189	12,107
Turkey—			
Bars, sheets, wire, etc. . . .	8	12	16
Aluminium sulphates . . . .	262	206	200

## ANTIMONY

### PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Southern Rhodesia .. .. .	—	49	—
India ( <i>ore</i> ) .. .. .	500	370	77
Australia .. .. .	63	49	27
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	1,054	1,125	700
Czechoslovakia .. .. .	1,951	1,189	(a)
France .. .. .	878	850	820
Italy .. .. .	351	282	207
Jugoslavia .. .. .	147	127	156
Spain .. .. .	13	8	(a)
Algeria .. .. .	128	—	—
Morocco .. .. .	—	10	(a)
Mexico .. .. .	1,894	3,521	2,667
United States .. .. .	—	37	—
Bolivia (exports) .. .. .	3,953	3,487	3,719
Peru .. .. .	119	138	(a)
Asia Minor (estimated) .. .. .	400	400	400
China (exports)—			
Ore .. .. .	1,907	2,370	(a)
Crude .. .. .	2,305	3,128	3,835
Regulus .. .. .	15,556	16,195	19,746
Turkey .. .. .	25	96	7
<b>WORLD'S TOTAL</b>	<b>30,000</b>	<b>32,000</b>	<b>34,000</b>

(a) Information not available.

## EXPORTS OF ANTIMONY, ETC.

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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Regulus .. .. .	750	516	836
Southern Rhodesia—			
Ore .. .. .	54	76	63
Australia (including re-exports)—			
Ore .. .. .	60	—	3
Regulus and alloys .. ..	(£195)	(£428)	(£475)
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	761	1,792	1,276
Regulus .. .. .	132	14	7
Belgium-Luxemburg E.U.—			
Ore .. .. .	3	18	30
Regulus .. .. .	223	1,658	1,130
Czechoslovakia—			
Regulus .. .. .	764	674	311
Compounds .. .. .	12	21	1
France—			
Ore .. .. .	2	81	2
Crude and regulus .. ..	357	176	74
Oxide and sulphide .. ..	1,333	1,248	1,203
Germany—			
Regulus and scrap .. ..	564	427	200
Italy—			
Regulus .. .. .	2	1	2
Jugoslavia—			
Ore .. .. .	49	83	109
Metal .. .. .	87	34	—
Netherlands—			
Regulus .. .. .	12	31	9
Poland—			
Ore and regulus .. ..	—	22	—
Portugal—			
Ore .. .. .	1	—	25

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Spain (including re-exports)—			
Regulus .. .. .	52	25	—
Sweden—			
Ore .. .. .	29	78	119
Algeria—			
Ore .. .. .	1,235	552	305
Mexico—			
Ore ( <i>Sb content</i> ) .. ..	827	820	298
Pig lead ( <i>Sb content</i> ) .. ..	17	560	404
Antimonial silver ( <i>Sb content</i> ) .. ..	—	—	996
Refined antimony .. ..	1,050	2,142	966
Bolivia—			
Ore ( <i>Sb content</i> ) .. ..	3,953	3,487	3,719
Peru—			
Ore ( <i>Sb content</i> ) .. ..	127	176	109
China—			
Ore .. .. .	1,907	2,370	(a)
Crude .. .. .	2,305	3,128	3,835
Regulus .. .. .	15,556	16,195	19,746
Japan—			
Regulus .. .. .	96	127	111
Turkey—			
Ore .. .. .	50	57	43

## IMPORTS OF ANTIMONY, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore, including crude .. ..	2,895	1,165	451
Regulus .. .. .	2,594	3,674	5,331
Southern Rhodesia—			
Bars and ingots .. ..	—	—	5
Union of South Africa—			
Crude and regulus .. ..	30	96	20
Canada—			
Regulus .. .. .	573	683	780
Australia—			
Ore .. .. .	71	97	10
Crude and regulus .. ..	190	169	244
Sulphide .. .. .	2	9	6
New Zealand—			
Antimony .. .. .	31	23	18
FOREIGN COUNTRIES			
Austria—			
Regulus .. .. .	165	194	174
Belgium-Luxemburg E. U.—			
Ore .. .. .	2,203	3,314	992
Regulus .. .. .	207	191	246
Czechoslovakia—			
Regulus .. .. .	34	69	155
Compounds .. .. .	16	14	30
Denmark—			
Regulus and manufactures ..	49	61	87
Estonia—			
Crude and regulus .. ..	10	10	16
Finland—			
Ore .. .. .	13	11	5
France—			
Ore .. .. .	2,421	1,771	1,709
Crude and regulus .. ..	699	1,467	1,909
Oxide and sulphide .. ..	27	73	94
Germany—			
Ore, including crude .. ..	1,297	1,569	1,633
Regulus and scrap .. ..	3,295	3,321	3,060
Hungary—			
Regulus .. .. .	5	6	(a)
Italy—			
Regulus .. .. .	332	593	394

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Metal .. .. .	6	22	4
Latvia—			
Ore .. .. .	1	3	—
Regulus .. .. .	7	24	12
Netherlands—			
Regulus .. .. .	146	163	152
Norway—			
Regulus .. .. .	25	41	35
Poland—			
Ore and regulus .. .. .	179	169	187
Oxide and sulphide .. .. .	84	90	(a)
Portugal—			
Crude and alloys .. .. .	26	18	13
Sulphide .. .. .	(a)	10	10
Russia (years ended Sept. 30)—			
Crude .. .. .	119	170	} 412
Metal .. .. .	3	87	
Spain (total imports)—			
Regulus .. .. .	102	107	75
Sulphide .. .. .	43	50	54
Sweden—			
Ore .. .. .	145	267	378
Switzerland—			
Ore .. .. .	179	131	184
Algeria—			
Regulus .. .. .	8	21	17
United States—			
Ore ( <i>Sb content</i> ) .. .. .	1,770	1,951	1,665
Regulus and crude .. .. .	10,720	9,598	11,537
Argentina—			
Regulus .. .. .	101	115	(a)
Chile—			
Regulus .. .. .	73	15	170
Colombia—			
Crude and alloys .. .. .	16	(a)	(a)
Regulus .. .. .	28	(a)	(a)
Peru—			
Regulus .. .. .	4	8	5
Uruguay—			
Ingots .. .. .	3	(a)	(a)
Dutch East Indies—			
Antimony .. .. .	27	26	(a)
French Indo-China—			
Regulus .. .. .	7	(a)	(a)
Japan—			
Antimony and regulus .. .. .	1,833	1,900	1,856
Turkey—			
Ore and regulus .. .. .	12	20	(a)

(a) Information not available.



## ARSENIC

PRODUCTION OF ARSENIC  
(Long tons)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Arsenical pyrites .. ..	80	—	20
White arsenic and arsenic soot	1,337	1,293	953
Southern Rhodesia—			
White arsenic .. ..	38	100	51
Union of South Africa—			
White arsenic .. ..	52	17	33
Canada ( <i>sales</i> )—			
Gold concentrates ( <i>As content</i> )	596	625	684
White arsenic .. ..	2,185	1,792	1,651
Australia—			
Arsenical ores and white arsenic	221	94	251
FOREIGN COUNTRIES			
Austria—			
Gold ores ( <i>As content</i> ) .. ..	13	—	—
Czechoslovakia			
Arsenical pyrites .. ..	12	6	(a)
France—			
Ore .. ..	(b) 5,455	73,540	46,549
White arsenic .. ..	2,417	(a)	(a)
Germany—			
Arsenical ores ( <i>As content</i> ) ..	1,474	1,593	1,728
Greece—			
White arsenic .. ..	1,020	698	(a)
Italy—			
Arsenical ores ( <i>As content</i> ) ..	45	—	(a)

(a) Information not available.

(b) Arsenic content.

PRODUCTION OF ARSENIC (*Cont.*)

Producing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Portugal—			
Ore .. .. .	46	132	123
Russia (years ended Sept. 30)—			
Ore .. .. .	5,272	(a)	(a)
Spain—			
Arsenical pyrites ( <i>As content</i> )	27	—	(a)
Sweden—			
Ore ( <i>As content</i> ) .. ..	4,350	4,474	(a)
Algeria—			
Arsenate of lead ( <i>As content</i> ) .. .. .	531	260	305
Mexico—			
White arsenic, etc. ( <i>As content</i> ) .. .. .	8,876	8,532	9,512
United States—			
White arsenic .. .. .	10,473	12,646	14,826
Japan—			
White arsenic .. .. .	1,686	1,800	(a)
Turkey—			
Arsenic .. .. .	(a)	10	14

(a) Information not available.

## EXPORTS OF ARSENIC, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic .. .. .	16	5	22
White arsenic .. .. .	86	136	120
Other compounds of arsenic ..	149	233	50
Northern Rhodesia—			
White arsenic .. .. .	54	93	65
—			
White arsenic, etc. .. .. .	1,722	1,426	1,414
FOREIGN COUNTRIES			
Belgium-Luxemburg E. U.—			
.. .. .	1	15	8
Gar and orpiment .. .. .	17	30	28
Metallic arsenic .. .. .	160	277	142
White arsenic .. .. .	2,166	2,617	3,658
—			
.. .. .	33	237	124
White arsenic .. .. .	39	45	32
Metallic arsenic .. .. .	5	12	—
White arsenic .. .. .	1,315	2,463	2,421
Nitrates .. .. .	87	515	561
France—			
White arsenic .. .. .	2,702	2,668	2,537
—			
White arsenic .. .. .	1,086	682	619
—			
.. .. .	1,430	—	(a)
—			
Metallic content of white arsenic	8,876	8,532	9,512
United States—			
Nitrates .. .. .	(a)	1,014	(a)
—			
White arsenic .. .. .	(a)	2,042	(a)

) Information not available.

## IMPORTS OF ARSENIC, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic .. ..	34	24	19
White arsenic .. ..	2,891	2,034	2,346
Other compounds of arsenic ..	476	124	283
Union of South Africa—			
Sodium arsenite .. ..	866	633	573
Canada—			
Sulphide of arsenic .. ..	7	42	8
White arsenic .. ..	128	149	55
British India (total imports)—			
Arsenic and its oxides.. ..	129	116	167
Australia—			
White arsenic and compounds	(£27,687)	(£24,760)	933
New Zealand—			
White arsenic, etc. .. ..	34	40	65
Arsenates .. ..	16	22	23
FOREIGN COUNTRIES			
Austria—			
Sulphide of arsenic .. ..	18	15	18
Belgium-Luxemburg E.U.—			
Ore .. ..	6,023	4,731	10,649
Realgar and orpiment.. ..	28	35	11
Metallic arsenic .. ..	2	4	8
White arsenic .. ..	68	94	112
Czechoslovakia—			
Realgar and orpiment .. ..	46	63	63
Metallic arsenic .. ..	25	23	57
White arsenic .. ..	108	175	180
France—			
Ore .. ..	10	79	56
Sulphide of arsenic .. ..	46	32	10
Metallic arsenic .. ..	6	10	31
White arsenic .. ..	308	136	173
Arsenates .. ..	3	11	—
Germany—			
Ore .. ..	5,788	5,780	5,983
White arsenic .. ..	424	694	357

IMPORTS OF ARSENIC (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Italy—			
Metallic arsenic .. ..	10	10	8
Arsenic compounds .. ..	395	410	410
Jugoslavia—			
Metallic and white arsenic .. ..	7	7	11
Realgar and orpiment .. ..	4	5	10
Latvia—			
White arsenic .. ..	3	9	10
Poland—			
Metallic arsenic .. ..	14	3	(a)
White arsenic .. ..	27	10	(a)
Sulphides .. ..	8	24	(a)
Portugal—			
Arsenates .. ..	(a)	1	3
White arsenic .. ..	(a)	10	20
Russia (years ended Sept. 30)—			
Arsenates .. ..	1	2	(a)
Spain (total imports.)—			
Arsenic .. ..	2	11	39
Sweden—			
White arsenic .. ..	44	37	36
Algeria—			
Arsenates .. ..	43	232	342
Egypt—			
Arsenic .. ..	2	5	—
Mexico—			
White arsenic .. ..	7	511	(a)
United States—			
White arsenic .. ..	11,176	9,958	11,747
Sulphide of arsenic .. ..	183	234	189
Argentina—			
White arsenic, etc. .. ..	335	280	(a)
Chile—			
White arsenic .. ..	10	22	38
Peru—			
Arsenate of lead .. ..	56	15	9
Arsenate of lime .. ..	(a)	470	1,085
Uruguay—			
White arsenic .. ..	569	668	316
French Indo-China—			
White arsenic .. ..	3	(a)	(a)
Sulphide of arsenic .. ..	6	(a)	(a)
Turkey—			
Arsenic, including sulphides .. ..	9	14	17

(a) Information not available.

## ASBESTOS

## PRODUCTION OF ASBESTOS

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Southern Rhodesia .. ..	29,621	35,679	38,066
Union of South Africa (b) ..	21,004	24,197	28,717
Canada—			
Chrysotile .. .. .	258,919	265,453	294,804
<i>Crude</i> .. .. .	3,332	3,569	4,286
<i>Spinning stocks</i> .. ..	10,958	12,546	17,514
<i>Shingle stocks</i> .. ..	40,879	37,478	30,391
<i>Millboard and paper stocks</i> ..	53,116	63,519	82,046
<i>Fillers, floats and other short fibres</i> .. .. .	132,527	127,412	143,624
<i>Sand, gravel and crushed rock</i>	18,107	20,929	16,943
Actinolite .. .. .	77	62	27
Cyprus .. .. .	11,380	16,287	14,110
India .. .. .	68	157	318
Australia .. .. .	11	12	255
Total .. .. .	321,000	342,000	376,000
<b>FOREIGN COUNTRIES</b>			
Finland (Amphibole) .. ..	2,385	2,241	(a)
France .. .. .	790	(a)	(a)
Italy .. .. .	4,470	4,724	(a)
Russia (years ended Sept. 30) ..	20,822	26,000	(a)
United States (sales)—			
Amphibole .. .. .	} 2,662	1,999	1,046
Chrysotile .. .. .			1,771
Japan (estimated) .. .. .	1,000	1,000	1,000
Kwang-tung .. .. .	57	(a)	(a)
Total .. .. .	32,000	37,000	(a)
<b>WORLD'S TOTAL</b> .. .. .	353,000	379,000	420,000

(a) Information not available.

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

	1927.	1928.	1929.
Amosite ..	4,548 long tons.	6,025 long tons.	8,268 long tons.
Blue ..	4,351 " "	4,592 " "	5,384 " "
Chrysotile	10,870 " "	10,859 " "	15,845 " "

## EXPORTS OF ASBESTOS

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Unmanufactured—			
Crude and fibre .. ..	681	709	589
Waste, including asbestic ..	31	85	14
Manufactures .. .. .	29,710	33,661	33,189
Southern Rhodesia—			
Unmanufactured .. ..	27,024	36,532	40,773
Manufactures .. .. .	(£1,935)	(£4,146)	(£113)
Union of South Africa—			
Unmanufactured .. ..	11,344	10,868	10,329
Manufactures .. .. .	(£612)	(£1,367)	(£1,192)
Canada—			
Unmanufactured .. ..	118,951	115,350	128,326
Sand and waste .. .. .	116,130	121,187	132,415
Manufactures .. .. .	(£13,649)	(£13,525)	(£23,289)
British Malaya (including re- exports)—			
Manufactures .. .. .	428	497	203
Cyprus—			
Unmanufactured .. ..	10,904	11,579	13,796
Australia (including re-exports)—			
Packing .. .. .	(£2,292)	(£2,337)	(£1,692)
New Zealand—			
Manufactures .. .. .	30	165	—
FOREIGN COUNTRIES			
Austria—			
Unmanufactured .. ..	184	102	104
Spun and woven .. ..	99	137	147
Paper and board .. ..	111	142	154
Cement sheets .. .. .	55	143	82
Other manufactures .. ..	3	9	7
Belgium-Luxemburg E.U.—			
Unmanufactured .. ..	1,917	1,414	2,114
Spun and woven .. ..	118	95	131
Paper and board .. ..	2,391	1,686	646
Other manufactures .. ..	30	47	52

EXPORTS OF ASBESTOS (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
<b>Czechoslovakia—</b>			
Unmanufactured .. ..	60	114	98
Spun and woven .. ..	79	94	63
Paper and board .. ..	459	1,173	561
Other manufactures .. ..	63	85	112
<b>France—</b>			
Manufactures .. .. .	683	1,682	1,254
<b>Germany—</b>			
Unmanufactured .. ..	312	467	574
Spun and woven .. ..	611	709	861
Paper and board .. ..	3,711	3,027	3,396
Other manufactures .. ..	520	540	582
<b>Italy—</b>			
Unmanufactured .. ..	3,453	4,862	2,860
Spun and woven .. ..	261	155	291
Paper and board .. ..	79	75	87
Cement products .. ..	10,842	11,393	12,433
Other manufactures .. ..	37	54	51
<b>Netherlands .. .. .</b>	18	6	287
<b>Poland—</b>			
Unmanufactured .. ..	—	47	(a)
Manufactures .. .. .	10	6	(a)
<b>Russia (years ended Sept. 30) ..</b>	9,788	10,988	12,770
<b>Sweden—</b>			
Unmanufactured .. ..	5	3	2
Board .. .. .	—	1	2
Other manufactures .. ..	7	7	9
<b>Switzerland (including mica)—</b>			
Unmanufactured .. ..	34	6	23
Manufactures .. .. .	414	450	485
<b>United States—</b>			
Unmanufactured .. ..	276	759	633
Spun and woven .. ..	628	738	884
Paper and board .. ..	704	726	759
Brake and clutch linings ..	(£78,057)	(£292,041)	(£313,071)
Pipe coverings and cement ..	2,166	2,198	3,076
Roofing squares .. ..	(£104,776)	(£91,530)	(£123,620)
Other manufactures .. ..	1,146	1,292	2,184
<b>Japan .. .. .</b>	(£13,607)	(£16,368)	(£15,378)



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

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Unmanufactured—			
Crude and fibre .. ..	27,044	25,403	24,920
Waste, including asbestic .. ..	2,711	1,743	2,981
Manufactures .. .. .	35,014	40,570	40,064
Southern Rhodesia (total imports)—			
Cement sheets .. .. .	(£6,064)	(£10,355)	(£5,755)
Other manufactures .. .. .	(£429)	(£1,031)	(£2,185)
South-West Africa—			
Cement sheets .. .. .	(£1,047)	(£2,098)	(£2,303)
Other manufactures .. .. .	(£33)	(£105)	(£17)
Union of South Africa—			
Packing .. .. .	(£24,542)	(£27,063)	(£26,315)
Cement products .. .. .	(£20,406)	(£22,096)	(£36,349)
Other manufactures .. .. .	(£2,972)	(£1,795)	(£972)
Canada—			
Packing .. .. .	102	90	101
Other manufactures .. .. .	(£115,801)	(£149,393)	(£183,370)
Newfoundland (years ended June 30)—			
Shingles .. .. .	(£35)	(£14)	(£663)
Other asbestos .. .. .	(£1,074)	(£748)	(£1,008)
British India (total imports)—			
Unmanufactured .. .. .	—	2	2
Packing .. .. .	(£55,746)	(£32,512)	(£41,230)
Other manufactures .. .. .	(£273,256)	(£256,573)	(£197,027)
British Malaya—			
Manufactures .. .. .	9,901	11,039	9,801
Australia—			
Crude .. .. .	(a)	(a)	3,679
Packing .. .. .	(£47,213)	(£67,984)	(£74,186)
New Zealand—			
Sheets, slates and tiles .. .. .	(£33,647)	(£34,030)	(£29,992)
Packing, brake lining, etc. .. .. .	(£45,841)	(£40,661)	(£49,228)
Other manufactures .. .. .	(£350)	(£114)	(£422)
<b>FOREIGN COUNTRIES</b>			
Austria—			
Unmanufactured .. .. .	4,418	4,394	5,281
Spun and woven .. .. .	29	42	48

(a) Information not available.

IMPORTS OF ASBESTOS (*Cont.*)

Importing Country and Description.	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Austria ( <i>Cont.</i> )—			
Paper and board .. ..	13	39	53
Cement sheets .. ..	16	39	47
Other manufactures .. ..	22	38	37
Belgium-Luxemburg E.U.—			
Unmanufactured .. ..	21,028	17,862	22,087
Spun and woven .. ..	235	255	254
Paper and board .. ..	191	130	105
Other manufactures .. ..	12	10	12
Czechoslovakia—			
Unmanufactured .. ..	9,024	9,614	10,580
Spun and woven .. ..	25	36	32
Paper and board .. ..	24	14	131
Other manufactures .. ..	27	55	68
Denmark—			
Unmanufactured .. ..	175	478	785
Spun and woven .. ..	13	15	8
Paper and board .. ..	184	278	280
Estonia .. ..			
	49	69	85
Finland (including mica)—			
Unmanufactured .. ..	290	199	350
Manufactures .. ..	300	392	494
France—			
Spun and woven .. ..	285	327	280
Paper and board .. ..	205	375	383
Germany—			
Unmanufactured .. ..	15,689	17,449	14,649
Spun and woven .. ..	54	94	77
Paper and board .. ..	116	146	107
Paint and cement products ..	320	210	240
Other manufactures .. ..	91	172	109
Hungary .. ..			
	2,764	2,121	(a)
Italy—			
Unmanufactured .. ..	4,732	6,317	6,220
Spun and woven .. ..	126	158	172
Paper and board .. ..	238	262	304
Cement products .. ..	48	33	64
Other manufactures .. ..	3	133	77

## IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Unmanufactured .. ..	1,701	1,249	1,136
Spun and woven .. ..	51	59	80
Paper and board .. ..	90	108	123
Other manufactures .. ..	13	12	13
Latvia—			
Unmanufactured .. ..	77	68	108
Manufactures .. ..	26	30	16
Lithuania .. ..	43	35	80
Netherlands .. ..	1,119	1,794	626
Norway .. ..	576	1,153	1,593
Poland—			
Unmanufactured .. ..	907	1,337	(a)
Board .. ..	108	74	(a)
Other manufactures .. ..	709	1,294	(a)
Portugal—			
Unmanufactured .. ..	92	84	49
Manufactured .. ..	(a)	60	71
Rumania—			
Unmanufactured .. ..	110	(a)	(a)
Sheets .. ..	56	(a)	(a)
Russia (years ended Sept. 30) ..	179	101	142
Spain (total imports)—			
Unmanufactured .. ..	2,203	5,770	5,297
Spun and woven .. ..	80	112	102
Sweden—			
Unmanufactured .. ..	593	644	1,029
Board .. ..	330	482	489
Other manufactures .. ..	153	194	184
Switzerland (including mica)—			
Unmanufactured .. ..	1,132	1,055	1,298
Manufactures .. ..	531	667	643
Egypt .. ..	212	253	241
Costa Rica .. ..	5	(a)	(a)
Mexico—			
Unmanufactured .. ..	411	705	(a)

(a) Information not available.

IMPORTS OF ASBESTOS (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Panama .. .. .	173	114	53
United States—			
Unmanufactured—			
Crude .. .. .	} 199,283	12,402	15,157
Mill fibre .. .. .		80,235	85,164
Stucco and other unmanu- factured .. .. .		113,251	133,988
Manufactures .. .. .	60,402	24,855	25,124
Argentina .. .. .	734	49	(a)
Brazil (total imports)—			
Unmanufactured .. .. .	116	49	76
Manufactures .. .. .	2,815	3,110	4,129
Chile—			
Unmanufactured .. .. .	28	70	156
Manufactures .. .. .	466	277	173
Colombia—			
Unmanufactured .. .. .	343	(a)	(a)
Manufactures .. .. .	266	(a)	(a)
China—			
Manufactures .. .. .	571	693	726
Dutch East Indies—			
Unmanufactured .. .. .	1	19	(a)
Cement sheets .. .. .	6,203	6,854	(a)
Japan (total imports)—			
Unmanufactured .. .. .	8,242	10,196	10,147
Manufactures .. .. .	949	1,068	1,122
Siam—			
Manufactures .. .. .	112	272	405

(a) Information not available.

## BARIUM MINERALS

### PRODUCTION OF BARIUM MINERALS

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Barytes, not ground .. ..	24,984	26,177	29,839
Witherite, not ground .. ..	6,693	8,044	9,157
<b>Barytes and witherite—</b>			
Ground, bleached .. ..	1,922	580	1,192
do. unbleached .. ..	13,254	15,100	16,907
Southern Rhodesia .. ..	13	76	260
Canada (sales) .. ..	50	113	94
India .. ..	1,719	3,096	3,750
Australia .. ..	2,086	2,386	2,133
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	1,894	2,208	295
Belgium .. ..	1,604	728	(a)
France .. ..	25,900	(a)	(a)
<b>Germany—</b>			
Bavaria .. ..	19,719	23,495	} 279,728
Prussia .. ..	152,349	205,685	
Italy .. ..	30,193	26,688	(a)
Russia (years ended Sept. 30) ..	8,362	3,421	(a)
Spain (i) .. ..	4,878	3,802	(a)
Algeria .. ..	500	—	1,200
United States (sales) .. ..	227,022	240,664	247,562

(a) Information not available.

(i) In addition, 800 and 500 cubic yards of barytes were produced from quarries during 1927 and 1928, respectively.

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

(Long tons)

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Unground barytes .. ..	119	3,409	594
Ground barytes and blanc fixe	801	1,899	2,454
Dioxide .. .. .	453	311	354
Barium compounds .. ..	3,077	4,329	6,097
<b>FOREIGN COUNTRIES</b>			
Austria—			
Barytes .. .. .	45	53	26
Belgium-Luxemburg E. U.—			
Chloride .. .. .	5,840	7,007	6,556
Sulphate .. .. .	40	120	212
Sulphide .. .. .	—	5	42
Czechoslovakia—			
Barytes .. .. .	1	1,671	1,622
Chloride .. .. .	1,648	2,095	2,259
Sulphate .. .. .	913	1,087	1,152
France—			
Barytes .. .. .	3,014	1,001	2,324
Witherite .. .. .	44	10	12
Carbonate .. .. .	22	29	70
Chloride .. .. .	859	237	187
Nitrate and sulphide .. ..	6	11	9
Sulphate .. .. .	272	495	349
Germany—			
Barytes and celestite .. ..	198,044	243,898	291,254
Carbonate .. .. .	9,121	10,823	8,645
Chloride .. .. .	2,955	854	2,461
Nitrate .. .. .	888	1,083	993
Sulphate .. .. .	7,683	7,310	8,031
Italy—			
Sulphate .. .. .	3,144	4,634	4,103
Oxide, carbonate and chloride	3	11	15
Netherlands—			
Barytes .. .. .	1,371	102	127

\* For lithopone see "zinc," page 352.

## IMPORTS OF BARIUM MINERALS, ETC.\*

(Less Re-exports)

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Unground barytes .. ..	892	2,017	15,445
Ground barytes .. ..	36,472	36,808	33,329
Dioxide .. ..	329	—	—
Barium compounds .. ..	2,528	2,221	2,471
Union of South Africa—			
Barytes .. ..	376	780	330
Dioxide .. ..	9	11	17
Canada—			
Barytes .. ..	2,537	2,570	2,363
Blanc fixe .. ..	456	555	844
Dioxide .. ..	31	6	13
Trinidad and Tobago—			
Barytes .. ..	(a)	(a)	5,977
British India (total imports)—			
Barytes .. ..	1,669	1,771	2,826
Australia—			
Barytes .. ..	86	19	112
FOREIGN COUNTRIES			
Austria—			
Barytes .. ..	2,218	2,125	2,090
Carbonate and chloride .. ..	485	825	874
Sulphate .. ..	521	674	643
Belgium-Luxemburg E.U.—			
Chloride .. ..	503	25	37
Dioxide .. ..	42	104	112
Sulphate .. ..	2,075	2,770	2,352
Czechoslovakia—			
Crude barytes .. ..	6,617	8,865	11,363
Ground barytes .. ..	3,173	3,283	3,271
Carbonate .. ..	156	278	222
Barium compounds .. ..	109	177	144
Denmark—			
Barytes and sulphate .. ..	363	538	557
Carbonate and chloride .. ..	148	165	205

\* For lithopone see "zinc," page 357.

(a) Information not available.

IMPORTS OF BARIUM MINERALS (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Netherlands—			
Barytes .. .. .	27,980	22,920	41,974
Poland—			
Barytes .. .. .	4,942	4,693	(a)
Witherite .. .. .	44	110	(a)
Carbonate .. .. .	237	126	(a)
Chloride .. .. .	107	55	(a)
Oxide and dioxide .. .. .	34	98	53
Sulphate .. .. .	189	268	(a)
Portugal—			
Dioxide .. .. .	16	14	4
Rumania—			
Witherite, etc. .. .. .	24	(a)	(a)
Chloride .. .. .	441	(a)	(a)
Sulphate .. .. .	1,249	(a)	(a)
Russia (years ended Sept. 30)—			
Barytes .. .. .	—	36	} 224
Carbonate .. .. .	—	35	
Chloride .. .. .	16	1	
Sulphate .. .. .	13	—	
Sweden—			
Barytes .. .. .	856	828	1,249
Algeria—			
Barytes .. .. .	18	4	144
Chloride .. .. .	65	—	—
Sulphate .. .. .	33	66	4
United States—			
Barytes .. .. .	62,745	55,147	76,544
Witherite .. .. .	2,946	3,849	3,907
Ground barytes .. .. .	2,910	2,766	2,611
Sulphate .. .. .	2,102	3,286	3,126
Barium compounds .. .. .	6,540	6,642	3,639
Argentina—			
Barytes .. .. .	1,938	2,347	(a)
Sulphate .. .. .	55	31	(a)

(a) Information not available.



IMPORTS OF BARIUM MINERALS (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Barytes .. .. .	97	44	1
Chloride .. .. .	16	36	70
Uruguay—			
Dioxide .. .. .	4	(a)	(a)
Sulphate .. .. .	311	(a)	(a)
Dutch East Indies—			
Chloride .. .. .	15	18	(a)
Turkey—			
Barium compounds .. .. .	8	20	13

(a) Information not available.

**BISMUTH**

## PRODUCTION OF BISMUTH ORE, ETC.

(Cwt.)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
Canada— Metal (from silver-cobalt ores)	19	125	1,735
India— Ore .. .. .	48 lb.	82 lb.	88 lb.
Australia— Ore, etc. .. .. .	135	152	65
FOREIGN COUNTRIES			
Germany (Saxony)— Bismuth-cobalt-nickel ore ..	91	81	(a)
Spain— Ore .. .. .	1,890	2,539	(a)
Metal .. .. .	416	469	(a)
Argentina— Ore .. .. .	4	21	(a)
Bolivia (exports)— Content of ore and concentrates	2,136	2,679	2,974
Japan— Metal .. .. .	444	633	(a)

(a) Information not available.

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

IMPORTS OF BARIUM MINERALS (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
<b>Estonia—</b>			
Barytes .. .. .	21	22	14
Witherite .. .. .	1	6	—
<b>Finland—</b>			
Barytes .. .. .	410	456	410
Chloride .. .. .	57	63	49
<b>France—</b>			
Barytes .. .. .	8,761	29,767	27,668
Witherite .. .. .	882	435	517
Carbonate .. .. .	1,559	2,475	2,051
Chloride .. .. .	2,096	2,213	3,529
Nitrate and sulphide .. .. .	110	116	112
Sulphate, etc. .. .. .	457	729	861
<b>Germany—</b>			
Barytes and celestite .. .. .	3,730	5,369	3,614
Carbonate .. .. .	(a)	7	89
Sulphate.. .. .	(a)	25	24
<b>Hungary—</b>			
Ground barytes .. .. .	1,292	1,126	1,184
Sulphate .. .. .	128	87	120
<b>Italy—</b>			
Carbonate .. .. .	117	269	380
Chloride .. .. .	774	648	572
Oxide and dioxide .. .. .	244	245	222
Sulphide .. .. .	69	—	12
Sulphate .. .. .	724	936	1,074
<b>Jugoslavia—</b>			
Barytes and witherite.. .. .	90	—	—
Ground barytes .. .. .	308	435	517
Chloride.. .. .	(a)	162	312
<b>Latvia—</b>			
Barytes .. .. .	72	143	84
Chloride.. .. .	18	26	15
Sulphate .. .. .	10	10	17
<b>Lithuania—</b>			
Barytes and witherite.. .. .	69	31	42

## EXPORTS OF BISMUTH, ETC.

*(Domestic Produce)*

(Cwt.)

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Bismuth .. .. .	1,739	771	1,004
Australia (including re-exports)—			
Bismuth ore .. .. .	20	100	1
<b>FOREIGN COUNTRIES</b>			
France—			
Bismuth .. .. .	41	12	—
Bismuth salts .. .. .	718	382	538
Germany—			
Bismuth salts .. .. .	1,780	1,320	1,700
Italy—			
Bismuth salts .. .. .	2	30	49
Argentina—			
Ore .. .. .	249	460	(a)
Bolivia—			
Ore, etc. ( <i>Bi content</i> ) .. .	2,136	2,679	2,974
Peru—			
Ore ( <i>Bi Content</i> )	(a)	(a)	894

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Bismuth ore .. .. .	2,570	1,707	1,673
Bismuth.. .. .	1,457	327	371
Canada—			
Bismuth.. .. .	24	30	24
Bismuth salts .. .. .	(£10,272)	(£7,534)	(£7,481)
Australia—			
Bismuth salts .. .. .	127	156	191
New Zealand—			
Bismuth salts .. .. .	(£3,383)	(£3,190)	(£3,051)
<b>FOREIGN COUNTRIES</b>			
France—			
Bismuth.. .. .	1,386	1,136	1,549
Bismuth salts .. .. .	6	8	36
Germany—			
Bismuth salts .. .. .	22	30	104
Italy—			
Nitrate .. .. .	61	67	63
Other salts .. .. .	83	77	110
Jugoslavia—			
Bismuth ore .. .. .	—	16	—
Latvia—			
Bismuth salts .. .. .	17	26	28
Poland—			
Bismuth.. .. .	26	49	(a)
Bismuth salts .. .. .	179	161	157
Portugal—			
Bismuth salts .. .. .	93	149	288
Rumania—			
Bismuth salts .. .. .	93	(a)	(a)
Russia (years ended Sept. 30)—			
Bismuth.. .. .	215	1,142	880
Spain (total imports)—			
Bismuth .. .. .	—	20	—
Bismuth salts .. .. .	402	172	135
United States—			
Bismuth.. .. .	426	369	335
Bismuth salts .. .. .	94	73	32
Chile—			
Bismuth salts .. .. .	59	46	83
Colombia—			
Bismuth salts .. .. .	98	(a)	(a)
Peru—			
Bismuth salts .. .. .	16	14	23
Japan (total imports)—			
Bismuth.. .. .	141	(a)	(a)
Turkey—			
Bismuth salts .. .. .	51	23	40

(a) Information not available.

**BORATES**

## PRODUCTION OF BORATES

(Long tons)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
India—			
Borates .. .. .	4 cwt.	15 cwt.	7 cwt.
FOREIGN COUNTRIES			
Germany—			
Boracite .. .. .	33	29	47
Italy—			
Crude boric acid .. ..	3,535	3,685	(a)
Russia (years ended Sept. 30)—			
Borates .. .. .	3	(a)	(a)
Borax .. .. .	1,008	2,974	(a)
Boric acid .. .. .	770	423	(a)
United States—			
Crude borates .. ..	97,393	117,000	151,670
Argentina—			
Borate of calcium .. ..	542	554	(a)
Chile—			
Borate of calcium .. ..	19,979	18,635	(a)
Peru—			
Borates .. .. .	540	263	(a)
Turkey—			
Borates .. .. .	17,599	14,707	13,314
Boric acid .. .. .	6,515	(a)	(a)

(a) Information not available.

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

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Borates .. .. .	5	9	53
Borax .. .. .	5,046	3,647	3,515
Boric acid .. .. .	1,078	1,089	1,276
British India—			
Borax .. .. .	78	54	117
<b>FOREIGN COUNTRIES</b>			
Austria—			
Borax .. .. .	360	328	143
Boric acid .. .. .	11	16	4
Belgium-Luxemburg E.U.—			
Borax .. .. .	478	390	519
Boric acid .. .. .	1	1	6
Czechoslovakia—			
Borax and boric acid .. .. .	30	9	76
Denmark—			
Borax and boric acid .. .. .	2	—	(a)
France—			
Borax .. .. .	2,745	1,099	1,002
Perborate of sodium .. .. .	100	218	299
Boric acid .. .. .	991	1,296	2,373
Germany—			
Borax and boric acid .. .. .	1,666	1,042	1,648
Italy—			
Borax .. .. .	1	720	546
Boric acid .. .. .	1,354	1,309	912
Netherlands—			
Borax .. .. .	77	199	545
Sweden—			
Borax and boric acid .. .. .	2	4	1
United States—			
Borax .. .. .	32,995	60,582	71,325
Boric acid .. .. .	—	1,510	2,323
Argentina—			
Borate of calcium .. .. .	1,247	49	(a)
Chile—			
Borate of calcium .. .. .	24,666	16,482	4,190
Peru—			
Borate of calcium .. .. .	267	257	—
Turkey—			
Borates .. .. .	(n)	(n)	(n)

(a) Information not available.

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

	1927	1928	1929
United Kingdom .. .. .	2,550	2,200	2,293
France .. .. .	4,050	3,510	(a)

## IMPORTS OF BORATES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Borates .. .. .	14,018	16,473	10,173
Borax .. .. .	5,768	7,258	11,087
Boric acid .. .. .	2,189	1,571	2,088
Irish Free State—			
Boric acid .. .. .	13	26	24
Southern Rhodesia—			
Borax .. .. .	25	33	32
Boric acid .. .. .	2	2	2
Union of South Africa—			
Borax .. .. .	227	246	275
Boric acid .. .. .	64	66	95
Canada—			
Borax .. .. .	1,141	993	1,599
Boric acid .. .. .	271	443	570
British India (total imports)—			
Borax and boric acid .. .. .	1,310	2,042	1,577
Australia—			
Borax .. .. .	1,163	982	1,470
Boric acid .. .. .	321	308	393
New Zealand—			
Borax .. .. .	205	160	209
Boric acid .. .. .	47	36	57
FOREIGN COUNTRIES			
Austria—			
Borax .. .. .	1,518	1,101	559
Boric acid .. .. .	2	3	5
Belgium-Luxemburg E.U.—			
Borax .. .. .	1,974	3,309	2,920
Boric acid .. .. .	177	262	240
Bulgaria—			
Borax and boric acid .. .. .	15	22	(a)
Czechoslovakia—			
Borax .. .. .	2,968	3,731	2,704
Boric acid .. .. .	61	183	285
Denmark—			
Borates .. .. .	90	—	98
Borax and boric acid .. .. .	81	147	187



IMPORTS OF BORATES (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Estonia—			
Refined borax and boric acid..	9	14	15
Finland—			
Borax .. .. .	87	102	88
Boric acid .. .. .	27	26	18
France—			
Borax .. .. .	7,532	14,090	11,625
Perborate of sodium .. .. .	268	116	129
Boric acid .. .. .	79	528	449
Germany—			
Borates .. .. .	18,073	17,581	20,400
Borax and boric acid .. .. .	5,207	7,556	9,316
Hungary—			
Crude borax .. .. .	109	123	(a)
Boric acid .. .. .	30	41	18
Italy—			
Borax .. .. .	273	280	59
Boric acid .. .. .	5	2	—
Latvia—			
Borax and boric acid .. .. .	37	45	33
Lithuania—			
Borax and boric acid .. .. .	18	15	13
Netherlands—			
Borax .. .. .	1,363	1,819	2,447
Norway—			
Borax .. .. .	50	60	86
Boric acid .. .. .	21	27	75
Poland—			
Boron minerals .. .. .	916	1,585	(a)
Borax .. .. .	1,334	738	(a)
Boric acid .. .. .	10	15	(a)
Portugal—			
Borates .. .. .	306	381	259
Boric acid .. .. .	19	39	24
Rumania—			
Borax .. .. .	257	(a)	(a)
Boric acid .. .. .	70	(a)	(a)
Russia (years ended Sept. 30)—			
Crude borates .. .. .	2,730	2,702	} 2,522
Borax .. .. .	130	3	
Boric acid .. .. .	229	1	
Spain (total imports)—			
Boric acid .. .. .	5	62	38

(a) Information not available.

IMPORTS OF BORATES (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Sweden—			
Borax .. .. .	574	608	727
Boric acid .. .. .	132	119	127
Switzerland—			
Borax .. .. .	333	427	675
Egypt—			
Borax .. .. .	46	60	44
Tunis—			
Borax .. .. .	6	7	7
United States—			
Borates .. .. .	7,000	4,500	4,545
Borax, refined .. .. .	6	94	3
Boric acid .. .. .	60	181	3
Argentina—			
Borax .. .. .	15	20	(a)
Boric acid .. .. .	7	4	(a)
Chile—			
Borax .. .. .	59	78	14
Boric acid .. .. .	15	10	25
Colombia—			
Borax .. .. .	40	(a)	(a)
Boric acid .. .. .	27	(a)	(a)
Peru—			
Borax .. .. .	16	20	13
Boric acid .. .. .	21	13	19
Uruguay—			
Borax .. .. .	44	9	7
China—			
Borax .. .. .	457	926	1,385
Boric acid .. .. .	70	93	147
Dutch East Indies—			
Borax .. .. .	21	71	(a)
French Indo-China—			
Refined borax .. .. .	119	107	103
Boric acid .. .. .	5	(a)	(a)
Japan (total imports)—			
Borax .. .. .	3,582	4,221	4,290
Boric acid .. .. .	822	864	1,130
Turkey—			
Boric acid .. .. .	12	9	9

(a) Information not available.

**CADMIUM**

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PRODUCTION OF CADMIUM  
(Lb. avdp.)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Canada .. .. .	—	491,894	773,976
Australia .. .. .	346,773	385,616	445,907
<b>FOREIGN COUNTRIES</b>			
Belgium (exports) ..	7,055	11,464	5,071
France .. .. .	41,888	(a)	(a)
Germany (estimated) ..	100,000	100,000	100,000
Poland .. .. .	13,558	9,288	(a)
United States—			
Metal .. .. .	1,074,654	1,875,896	2,481,427
Compounds (metal content) .. .. .	229,000	239,900	433,300
Mexico (b) .. .. .	200,122	779,431	1,413,092

(a) Information not available.

EXPORTS OF CADMIUM, ETC.

(Domestic Produce)

(Lb. avdp.)

Exporting Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	22,879	1,693	5,197
Australia (including re-exports) .. .. .	311,696	492,912	370,384
<b>FOREIGN COUNTRIES</b>			
Belgium-Luxemburg E. U.	7,055	11,464	5,071
France .. .. .	12,346	29,528	31,967
Poland .. .. .	11,684	4,189	1,543
Mexico (b) .. .. .	200,122	779,431	1,413,092

(b) Recorded as cadmium, but probably zinc-cadmium fume exported to the United States for treatment. See imports into United States, page 54.

## IMPORTS OF CADMIUM

*(Less Re-exports)*

(Lb. avdp.)

Importing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	87,702	143,005	349,739
<b>FOREIGN COUNTRIES</b>			
Belgium-Luxemburg E.U.	1,323	13,669	7,937
France .. .. .	29,321	165,567	187,393
Poland .. .. .	1,323	3,307	2,645
United States .. ..	22,400	233,101	214,307
Argentina (cadmium salts)	46	108	(a)
Chile (cadmium salts) ..	31	354	139
Peru (including cadmium salts) .. .. .	2	7	31
Turkey—			
Cadmium .. .. .	425	(a)	75
Cadmium salts .. ..	57	(a)	(a)

(a) Information not available.

## CHINA CLAY

## PRODUCTION OF CHINA CLAY

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	869,232	787,296	826,046
Canada .. .. .	21	4	—
India (b) .. .. .	14,738	7,186	10,866
Unfederated Malay States	824	985	(a)
Australia .. .. .	13,942	11,044	5,942
FOREIGN COUNTRIES			
Bulgaria .. .. .	2,796	2,699	3,615
Belgium (j) .. .. .	10,846	10,492	(a)
Czechoslovakia (estimated)	400,000	400,000	450,000
Denmark—			
Crude .. .. .	9,700	30,600	} 21,341
Washed or pressed ..	5,400	9,100	
France .. .. .	121,700	(a)	(a)
Germany (Bavaria) ..	380,112	(a)	392,937
Italy .. .. .			
Crude .. .. .	17,701	14,115	14,688
Washed (c) .. .. .	6,307	4,378	5,379
Kaolinic earth .. ..	2,600	13,600	16,300
Portugal .. .. .	3,787	4,147	3,818
Rumania (i) .. .. .	7,916	7,186	7,376
Russia (years ended Sept.30)	50,840	(a)	(a)
Spain .. .. .	(m) 7,093	(m) 21,000	(a)
Algeria .. .. .	2,000	2,500	1,344
United States (k) .. ..	405,576	442,984	462,651
Argentina .. .. .	30	—	(a)
Chile .. .. .	346	—	(a)
Japan—			
Porcelain stones and earth .. .. .	395,463	373,398	(a)
Clay for paper manufacture .. .. .	68,701	38,573	(a)

(a) Information not available.

(b) Figures refer to British India only, and exclude Native States. There was a production for years ended March 31, in Mysore; 1927, 1,278 long tons; 1928, 2,333 long tons; 1929, 2,563 long tons.

(c) This is not additional, being derived from crude in stock.

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

(j) "Eurite" and kaolin.

(k) Sales of china clay and "paper clay."

(m) Including 2,550 and 9,525 cubic metres produced in quarries during 1927 and 1928 and converted at the rate of 1 cubic metre = 2 long tons.

EXPORTS OF CHINA CLAY

(Domestic Produce)

(Long tons)

Exporting Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom ( <i>h</i> ) ..	655,836	597,524	639,358
British Malaya ( <i>c</i> ) ..	—	303	335
FOREIGN COUNTRIES			
Austria .. .. .	7,399	10,867	13,225
Belgium-Luxemburg E.U. (including other clays) ..	3,949	1,702	636
Bulgaria (including other clays) .. .. .	444	404	( <i>a</i> )
Czechoslovakia .. ..	274,946	303,436	306,899
Denmark .. .. .	545	2,937	2,985
France .. .. .	8,667	9,979	8,059
Germany .. .. .	45,294	54,775	62,953
Italy .. .. .	182	102	95
Jugoslavia .. .. .	702	90	45
Netherlands (including pipe clay) .. .. .	255	420	1,000
Poland .. .. .	30	109	( <i>a</i> )
Portugal .. .. .	( <i>a</i> )	59	128
Rumania .. .. .	581	2,877( <i>k</i> )	( <i>a</i> )
Russia .. .. .	2,055	5,804	16,882
Sweden .. .. .	104	592	582
Switzerland (including other clays) .. ..	7,713	9,966	8,334
Algeria .. .. .	1,648	1,661	1,410

(*a*) Information not available.

(*c*) Including re-exports.

(*h*) Including Cornish or china stone.

(*k*) Including felspar.

## IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom (h) ..	1,514	1,166	474
Union of South Africa (h) ..	43	79	68
Canada .. .. .	18,787	20,641	22,213
Newfoundland (c) .. ..	991	3,540	4,180
British India (total imports)	32,201	9,295	22,248
British Malaya .. .. .	—	114	91
FOREIGN COUNTRIES			
Austria .. .. .	21,226	19,316	18,018
Belgium-Luxemburg E.U. (including other clays) ..	65,762	55,231	62,025
Bulgaria (including other clays) .. .. .	97	(a)	(a)
Czechoslovakia .. .. .	4,525	6,367	7,139
Denmark—			
Crude .. .. .	1,561	1,058	(a)
Refined .. .. .	4,857	4,851	(a)
Estonia .. .. .	(a)	(a)	2,485
Finland .. .. .	20,662	15,328	10,762
France .. .. .	51,407	63,029	82,139
Germany .. .. .	271,844	293,088	314,507
Italy .. .. .	34,599	36,564	40,346
Jugoslavia .. .. .	3,778	4,154	3,888
Latvia .. .. .	1,778	1,502	568
Netherlands (including pipe clay) .. .. .	61,915	72,347	103,945
Poland .. .. .	29,175	26,458	(a)
Portugal .. .. .	203	212	290
Rumania .. .. .	6,302	(a)	(a)
Sweden .. .. .	26,757	25,793	29,038
Switzerland (including other clays) .. .. .	89,275	97,142	121,796
United States .. .. .	302,693	274,472	249,921
Colombia .. .. .	9	(a)	(a)
Uruguay .. .. .	66	(a)	(a)
Argentina .. .. .	1,402	2,128	(a)
Dutch East Indies .. ..	825	947	(a)
French Indo-China .. ..	344	(a)	(a)

(a) Information not available.

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

(h) Including Cornish or china stone.

**CHROME ORE AND CHROMIUM**

PRODUCTION OF CHROME ORE

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	378	—	—
Southern Rhodesia ..	194,659	195,918	261,711
Union of South Africa ..	16,691	31,255	62,964
Cyprus (shipments) ..	712	—	2,444
Canada .. .. .	—	—	113
India .. .. .	57,207	45,455	49,565
Australia .. .. .	—	—	129
Total ..	270,000	273,000	377,000
<b>FOREIGN COUNTRIES</b>			
Greece .. .. .	17,041	20,622	(a)
Jugoslavia .. .. .	8,619	16,417	30,047
Russia (years ended Sept.30)	18,989	21,620	(a)
Cuba .. .. .	16,027	28,650	39,760
United States .. .. .	50	368	180
Brazil (exports) .. .. .	1,791	20	69
Japan .. .. .	9,628	9,653	(a)
Turkey .. .. .	18,029	11,662	15,922
New Caledonia .. .. .	37,002	50,021	(b) 48,370
Total ..	130,000	160,000	190,000
<b>WORLD'S TOTAL</b>	<b>400,000</b>	<b>430,000</b>	<b>570,000</b>

(a) Information not available.

(b) Exports.



## EXPORTS OF CHROME ORE, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	202	231	464
Chromates of potash .. .. .	1,537	1,412	903
Chromates of soda .. .. .	1,429	2,072	1,897
Southern Rhodesia—			
Ore .. .. .	160,890	162,269	251,145
Union of South Africa—			
Chrome, iron and pyrites ..	18,269	23,365	44,010
British India ( <i>h</i> )—			
Ore .. .. .	20,996	31,209	18,059
Cyprus—			
Ore .. .. .	700	—	829
FOREIGN COUNTRIES			
Austria—			
Chrome alum and sulphate ..	332	175	189
Belgium-Luxemburg E.U.—			
Chromates of potash and soda	1,414	1,640	1,975
Czechoslovakia—			
Ore .. .. .	114	—	—
Chromates of potash and soda	39	43	13
France—			
Chromates of potash and soda	354	33	57
Germany—			
Chrome and nickel ore ..	362	93	297
Chromates of potash and soda, and oxides of chromium ..	6,739	8,512	6,560

(*h*) Excluding chrome ore mined in British India, but exported via the Portuguese port of Mormugao—1927, 21,957 tons—1928, 14,099 tons.

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Greece— Ore .. .. .	15,757	16,989	19,803
Jugoslavia— Ore .. .. .	9,910	9,102	21,107
Netherlands— Chromium compounds ..	12	16	28
Norway— Ferro-chrome .. .. .	3,947	2,757	3,809
Russia (years ended Sept. 30)— Ore .. .. .	2,292	2,958	5,289
Sweden— Chromates of potash and soda	6	9	4
United States— Chromates of soda .. ..	3,976	3,880	2,614
Brazil— Ore .. .. .	1,791	20	69
Turkey— Chromium compounds ..	3,150	10	2,677
New Caledonia— Ore .. .. .	42,208	55,803	48,370

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

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	16,536	22,373	27,099
Chromates of potash .. ..	102	60	75
Chromates of soda .. ..	2,558	2,520	2,523
Canada—			
Bichromate of potash .. ..	86	87	75
Bichromate of soda .. ..	920	934	801
British India (total imports)—			
Bichromate of potash .. ..	339	282	268
Bichromate of soda .. ..	691	842	627
Australia —			
Ore .. .. .	18	18	3
Bichromate of potash .. ..	6	2	56
FOREIGN COUNTRIES			
Austria—			
Chrome alum and sulphate ..	96	57	64
Chromate of potash and soda..	328	415	280
Belgium-Luxemburg E. U.—			
Chromates of potash and soda	391	426	185
Czechoslovakia—			
Ore .. .. .	3,502	2,405	3,361
Chromates of potash and soda	—	1	3
Denmark—			
Chromate of potash .. ..	12	14	12
Chromate of soda .. ..	75	83	87
Estonia—			
Chromates .. .. .	9	16	11
Finland—			
Chromates of potash .. ..	52	57	59
Chromates of soda .. ..	18	23	16
Chrome alum and sulphate ..	45	38	40
France—			
Chromates of potash and soda	2,020	3,102	3,005
Germany—			
Ore .. .. .	36,589	45,873	41,036
Chromates of potash and soda, and oxides of chromium ..	628	207	194
Hungary—			
Chromates of potash, soda and ammonia .. .. .	323	245	300

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Italy—			
Chromates of potash, soda and ammonia .. .. .	491	480	453
Jugoslavia—			
Chromium .. .. .	5	21	12
Chromates of potash .. .. .	(a)	(b) 21	52
Latvia—			
Chrome alum .. .. .	106	92	57
Chromates of potash and soda	10	13	16
Netherlands—			
Chromium compounds .. .. .	1,106	1,252	1,104
Norway—			
Ore .. .. .	6,907	12,440	11,563
Poland—			
Ore .. .. .	240	46	(a)
Chrome alum .. .. .	356	89	54
Chromates .. .. .	824	570	625
Portugal—			
Chromate of potash .. .. .	16	28	15
Chromate of soda .. .. .	17	21	13
Chrome alum .. .. .	35	5	18
Russia (years ended Sept. 30)—			
Chromium compounds .. .. .	136	16	3
Spain (total imports)—			
Chromates .. .. .	405	1,118	588
Sweden—			
Ore .. .. .	21,920	27,634	23,842
Chromates of potash and soda	200	282	239
Chrome alum .. .. .	404	415	384
Egypt—			
Bichromate of potash and soda	353	427	388
United States—			
Ore .. .. .	222,360	216,592	345,990
Metals and alloys .. .. .	470	717	667
Argentina—			
Bichromate of potash .. .. .	80	119	(a)
Bichromate of soda .. .. .	165	127	(a)
Chile—			
Bichromate of potash .. .. .	37	45	78
Colombia—			
Chrome alum .. .. .	122	(a)	(a)
Chromates of potash and soda	142	(a)	(a)
Peru—			
Chromium compounds .. .. .	28	216	66
Japan (total imports)—			
Bichromate of potash .. .. .	430	446	237
Bichromate of soda .. .. .	822	1,339	784
Turkey—			
Chromium compounds .. .. .	32	39	126

(a) Information not available.

(b) Includes chromates of soda.

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

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

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Anthracite .. ..	6,346,890	5,521,570	6,364,036
Bituminous .. ..	244,885,446	231,950,361	251,542,766
Lignite .. ..	502	640	322
Irish Free State—			
Anthracite .. ..	} (b)	(b)	(b)
Semi-bituminous .. ..			
Nigeria .. ..	357,899	359,316	344,937
Southern Rhodesia .. ..	894,396	1,077,557	1,020,446
Union of South Africa..	12,381,692	12,407,539	12,812,790
Canada—			
Bituminous .. ..	11,613,389	11,580,241	11,481,984
Sub-bituminous .. ..	532,281	661,157	597,055
Lignite .. ..	3,414,027	3,432,078	3,542,887
British Borneo—			
State of North Borneo	62,701	60,779	(a)
Sarawak .. ..	16,445	17,679	13,610
Federated Malay States	463,001	556,590	661,514
India—			
Gondwana Coalfields	21,664,488	22,153,314	} 23,418,734
Tertiary Coalfields..	417,848	389,558	
Australia—			
Bituminous coal .. ..	13,522,960	11,839,780	10,365,319
Lignite .. ..	1,455,482	1,591,858	1,741,176
New Zealand—			
Bituminous .. ..	1,290,529	1,348,732	1,367,164
Brown coal .. ..	954,436	973,238	1,049,603
Lignite .. ..	121,775	114,783	119,097
Total .. ..	320,000,000	306,000,000	327,000,000
<b>FOREIGN COUNTRIES</b>			
Albania—			
Lignite .. ..	2,960	(a)	(a)
Austria—			
Bituminous .. ..	172,828	198,906	204,735
Brown coal .. ..	3,015,675	3,211,042	3,469,123
Belgium—			
Anthracite and semi-			} 26,506,115
anthracite .. ..	5,899,589	6,035,006	
Bituminous .. ..	21,216,242	21,107,733	
Bulgaria—			
Anthracite .. ..	2,614	1,183	} 1,643,000
Bituminous .. ..	65,485	67,255	
Lignite .. ..	1,150,000	1,339,298	

(a) Information not available.

(b) The last year for which production is available is 1926, in which year 59,834 long tons of anthracite and 18,622 long tons of semi-bituminous were produced.

## PRODUCTION OF COAL (Cont.)

Producing Country	1927	1928	1929
<b>FOREIGN COUNTRIES</b> (Cont.)			
Czechoslovakia—			
Bituminous .. ..	13,794,932	14,330,345	16,485,750
Brown coal .. ..	19,310,756	20,128,419	21,155,637
France—			
Saar .. .. .	13,381,000	12,899,716	13,364,882
Other districts—			
Anthracite and bituminous .. ..	50,973,841	50,554,526	52,887,804
Lignite .. ..	1,065,936	1,046,891	1,168,653
Germany—			
Bituminous .. ..	151,173,466	148,477,965	160,855,794
Brown coal .. ..	148,126,913	162,972,863	172,411,240
Greece—			
Lignite .. .. .	141,082	118,734	(a)
Hungary—			
Bituminous .. ..	773,447	770,908	813,220
Brown coal .. ..	5,983,940	6,240,930	6,659,925
Lignite .. .. .	160,839	164,838	272,765
Italy—			
Anthracite .. ..	16,573	10,321	} 945,000
Bituminous .. ..	149,293	115,590	
Brown coal .. ..	898,047	686,024	
Jugoslavia—			
Bituminous .. ..	283,184	351,826	435,131
Brown coal .. ..	3,433,470	3,608,130	4,326,603
Lignite .. .. .	954,586	1,012,136	1,036,945
Netherlands—			
Bituminous .. ..	9,175,768	10,525,314	11,398,293
Brown coal .. ..	198,201	193,589	154,095
Poland—			
Bituminous .. ..	37,482,601	39,974,905	} 45,685,654
Brown coal .. ..	77,225	72,398	
Portugal—			
Anthracite .. ..	174,520	195,705	175,864
Bituminous .. ..	1,300	2,460	18,098
Brown coal .. ..	25,307	26,031	28,880
Rumania—			
Bituminous .. ..	367,559	391,285	365,088
Lignite .. .. .	2,804,999	2,588,144	2,632,831
Russia (years ended Sept. 30)—			
European—			
Anthracite .. ..	6,979,046	} 34,657,125	38,084,000
Bituminous .. ..	18,565,382		
Brown coal .. ..	1,735,349		
Asiatic—			
Bituminous .. ..	3,891,329		
Lignite .. .. .	855,533		

## PRODUCTION OF COAL (Cont.)

Producing Country	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Spain—			
Anthracite .. ..	423,106	383,243	532,705
Bituminous .. ..	6,036,177	5,885,667	6,340,606
Brown coal .. ..	422,817	415,831	395,695
Spitzbergen and Bear Island .. ..			
	314,380	280,418	(a)
Sweden .. ..			
	392,007	352,851	388,737
Algeria .. ..			
	20,933	16,368	15,873
Belgian Congo .. ..			
	86,000	88,000	112,642
Portuguese East Africa .. ..			
	15,584	6,353	(a)
Greenland .. ..			
	2,900	2,500	(a)
Mexico .. ..			
	1,015,020	999,787	1,043,277
United States—			
Anthracite .. ..	71,513,896	67,275,062	65,918,031
Bituminous and lignite .. ..	462,288,707	447,093,723	475,314,000
Brazil .. ..			
	231,294	246,327	(a)
Chile .. ..			
	1,458,113	1,353,890	1,482,661
Colombia (estimated) .. ..			
	100,000	100,000	100,000
Peru .. ..			
	159,806	175,675	(a)
Venezuela .. ..			
	15,850	15,660	16,593
China (estimated) .. ..			
	23,000,000	20,000,000	(a)
Dutch East Indies .. ..			
	1,594,616	1,676,472	1,583,000
Formosa .. ..			
	1,827,924	1,513,000	(a)
French Indo-China—			
Anthracite .. ..	1,422,083	1,883,409	1,883,400
Bituminous .. ..	38,041	39,826	38,200
Brown coal .. ..	7,038	15,228	30,300
Japan—			
Semi-anthracite .. ..	141,181	163,263	} 31,451,000
Bituminous .. ..	32,859,856	33,162,143	
Brown coal .. ..	175,792	119,997	
Karafuto .. ..			
	351,407	530,961	
Korea—			
Anthracite .. ..	} 698,371	457,611	529,744
Bituminous .. ..		315,322	393,345
Philippine Islands .. ..			
	23,040	27,417	(a)
Turkey—			
Bituminous .. ..	(b) 881,922	(b) 903,541	1,398,565
Lignite .. ..	(b) 10,388	(b) 9,105	7,850
New Caledonia .. ..			
	(a)	16,000	(a)
Total ..	1,130,000,000	1,130,000,000	1,200,000,000
WORLD'S TOTAL	1,450,000,000	1,440,000,000	1,530,000,000

(a) Information not available.

(b) Ereğli-Zonguldak only.

PRODUCTION OF COKE  
(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Great Britain—			
Gas works .. ..	12,364,005	12,215,839	12,411,266
Coke ovens (b) .. ..	11,837,135	11,845,210	13,421,998
Southern Rhodesia .. ..	144,646	137,513	98,423
Union of South Africa .. ..	96,698	92,604	97,729
Canada—			
Gas works .. ..	396,256	} 2,066,185	{ 272,636
Coke ovens .. ..	1,413,064		
India (h)—			
Hard .. ..	42,445	56,533	(a)
Soft .. ..	608,612	689,002	757,727
Australia—			
Gas works—			
New South Wales (e)	411,632	429,654	435,816
Victoria (e) .. ..	283,998	291,077	279,887
Queensland (e) .. ..	58,049	57,247	54,293
South Australia (e) .. ..	64,655	63,779	63,101
Western Australia (e)	8,178	9,693	11,396
Tasmania .. ..	6,241	5,555	5,554
Coke ovens—			
New South Wales (e)	674,972	896,877	567,810
Queensland .. ..	4,815	3,073	1,644
<b>FOREIGN COUNTRIES</b>			
Austria (gas works) .. ..	521,888	566,679	619,015
Belgium .. ..	5,787,104	6,223,058	5,896,479
Bulgaria (metallurgical) .. ..	1,425	884	(a)
Czechoslovakia .. ..	2,390,228	2,776,861	3,109,846
France—			
Saar .. ..	2,196,483	2,335,400	2,384,785
Other districts—			
Metallurgical .. ..	7,006,000	(a)	(a)
Gas works .. ..	2,308,413	4,330,441	4,705,657
Germany .. ..	33,178,766	34,852,321	37,943,495
Hungary (metallurgical) .. ..	450	1,055	2,059
Italy (metallurgical) .. ..	569,309	626,348	(a)
Netherlands—			
Gas works .. ..	850,000	850,000	(a)
Coke ovens .. ..	1,455,466	1,548,542	2,364,621
Norway .. ..	72,015	71,006	(a)



PRODUCTION OF COKE (*Cont.*)

Producing Country	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Poland .. .. .	1,379,865	1,641,564	(a)
Russia (years ended Sept.30)	3,361,475	3,866,609	(a)
Spain (incomplete figures)			
Metallurgical .. .. .	702,962	669,807	(a)
Gas works .. .. .	158,709	201,247	222,893
Sweden .. .. .	334,149	352,089	(a)
Switzerland—			
Gas works .. .. .	327,967	341,887	376,075
Algeria .. .. .	32,510	(a)	(a)
United States ( <i>l</i> ) .. .. .	45,617,985	47,148,061	53,467,719
Peru .. .. .	13,594	19,616	(a)
China (exports) .. .. .	12,784	13,987	13,254
Japan .. .. .	1,068,870	1,218,206	(a)
Korea .. .. .	128,297	(a)	(a)

(a) Information not available.

(b) Prior to 1929 it is possible that small quantities of coke breeze were included.

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

(h) Coke made at collieries only.

(l) Excluding gasworks coke.

PRODUCTION OF COAL BRIQUETTES  
(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
Great Britain .. ..	1,478,326	1,133,084	1,372,864
FOREIGN COUNTRIES			
Belgium .. .. .	1,662,295	1,928,188	1,967,704
Czechoslovakia—			
Coal briquettes .. ..	157,989	211,223	266,025
Brown-coal briquettes ..	208,425	237,365	252,064
France .. .. .	5,463,527	3,997,687	4,561,665
Saar .. .. .	280	—	—
Germany—			
Coal briquettes .. ..	5,467,247	5,290,938	5,466,755
Brown-coal briquettes ..	35,913,593	39,523,036	41,601,175
Greece—			
Brown-coal briquettes ..	85	—	(a)
Hungary—			
Coal briquettes .. ..	18,358	20,536	46,126
Brown-coal briquettes ..	21,623	34,742	61,714
Jugoslavia .. ..	43,202	27,146	51,946
Netherlands—			
Coal briquettes .. ..	651,751	773,418	943,053
Brown-coal briquettes ..	68,019	68,000	53,637
Poland .. .. .	248,787	260,187	349,180
Spain .. .. .	790,442	833,273	937,490
Algeria .. .. .	82,022	84,720	60,656
United States .. ..	866,489	845,913	1,082,513
Venezuela .. .. .	2,261	1,213	1,665
French Indo-China ..	117,864	124,896	(a)
Dutch East Indies ..	110,766	81,324	(a)

(a) Information not available.

## PRODUCTION OF COAL BY-PRODUCTS

Producing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE</b>				
Great Britain—				
Tar .. .. .	Long ton	1,779,269	1,851,240	1,952,167
Ammonium salts expressed as sulphate (25¾ per cent. NH <sub>3</sub> ) (b) ..	do.	473,445	622,242	912,259
Pitch .. .. .	do.	506,628	487,190	573,681
Benzol (refined) ..	Gallon	26,000,000	28,000,000	36,000,000
Union of South Africa—				
Tar .. .. .	Gallon	477,956	529,898	541,813
Ammonium sulphate ..	Long ton	843	942	1,039
Canada—				
Tar .. .. .	Gallon	7,638,432	9,453,666	7,322,998
Ammonium sulphate ..	Long ton	24,708	28,090	(a)
Ammonia liquor (NH <sub>3</sub> ) ..	do.	529	(a)	(a)
Pitch .. .. .	do.	37,249	48,245	49,259
Creosote, etc. .. ..	Gallon	7,695,616	7,552,768	9,031,501
India—				
Ammonium sulphate ..	Long ton	13,451	15,082	(a)
Australia—				
New South Wales (e)—				
Tar .. .. .	Gallon	11,845,283	12,396,984	13,244,818
Ammonium sulphate ..	Long ton	11,123	6,546	17,617
Victoria (e)—				
Tar .. .. .	Gallon	7,103,891	6,784,000	7,085,088
Ammonium sulphate ..	Long ton	3,591	3,441	2,689
Queensland—				
Tar (e) .. .. .	Gallon	1,077,564	1,104,351	1,093,546
South Australia (e)—				
Tar .. .. .	Gallon	1,939,729	1,757,735	1,984,654
Ammonium sulphate ..	Long ton	992	1,176	1,113
Western Australia—				
Tar .. .. .	Gallon	317,723	397,914	462,605
Tasmania (e)—				
Tar .. .. .	Gallon	171,282	114,555	205,300
Ammonium sulphate ..	Long ton	—	—	44

(a) Information not available.

(b) Actual ammonium sulphate production was:—1927, 434,275 long tons ; 1928, 558,705 long tons ; 1929, 828,832 long tons.

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

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

Producing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES				
Austria—				
Ammonium sulphate ..	Long ton	4,799	4,943	(a)
Belgium—				
Tar .. .. .	Long ton	177,098	193,180	(a)
Ammonium sulphate ..	do.	80,498	84,868	(a)
Benzol .. .. .	do.	39,024	44,063	(a)
Czechoslovakia—				
Tar .. .. .	Long ton	88,200	99,759	(a)
Ammonium sulphate ..	do.	31,716	34,446	(a)
Naphthalene .. .. .	do.	933	1,449	(a)
Pitch .. .. .	do.	3,423	3,353	(a)
Benzol .. .. .	do.	28,510	32,663	(a)
Liquid ammonia .. ..	do.	183	197	(a)
Carbolic acid .. .. .	do.	—	69	(a)
France—				
Tar .. .. .	Long ton	464,794	(b) 508,000	(b) 552,000
Ammonium sulphate ..	do.	116,134	(b) 210,000	(b) 255,000
Benzol .. .. .	do.	63,070	68,107	(b) 65,000
Pitch .. .. .	do.	79,138	(a)	(b) 150,000
Saar—				
Tar .. .. .	Long ton	115,312	120,738	119,744
Ammonium sulphate (coke ovens) .. .. .	do.	27,425	27,787	31,673
Benzol (b) .. .. .	do.	31,087	31,673	30,695
Germany—				
Tar and pitch .. .. .	Long ton	1,250,947	1,387,648	(a)
Ammonium sulphate and other ammoniacal salts .. .. .	do.	451,190	460,800	(a)
Benzol .. .. .	do.	301,715	327,890	360,000
Greece—				
Tar .. .. .	Long ton	60	—	(a)
Italy—				
Tar .. .. .	Long ton	18,166	21,457	(a)
Ammonium sulphate ..	do.	9,134	7,216	(a)
Benzol .. .. .	do.	1,803	3,931	5,000
Netherlands—				
Ammonium sulphate ..	Long ton	44,000	46,000	(a)
Pitch .. .. .	do.	(a)	35,000	45,000
Benzol (estimated) ..	do.	20,000	20,000	20,000
Norway—				
Tar .. .. .	Long ton	4,916	5,510	(a)

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>Poland—</b>				
Tar .. .. .	Long ton	65,422	79,168	85,300
Ammonium sulphate ..	do.	26,195	36,142	37,800
Benzol .. .. .	do.	17,839	20,807	22,300
Naphthalene .. .. .	do.	1,017	1 275	(a)
<b>Portugal—</b>				
Ammonium sulphate ..	Long ton	118	(a)	(a)
<b>Russia (years ended Sept. 30)—</b>				
Tar .. .. .	Long ton	74,764	88,022	106,955
Ammonium sulphate ..	do.	10,367	13,412	19,023
Liquid ammonia .. ..	do.	3,151	4,049	5,354
Benzol (crude) .. .. .	do.	15,868	21,164	30,775
<b>Spain (incomplete figures)—</b>				
Tar .. .. .	Long ton	40,232	46,156	(a)
Ammonium sulphate ..	do.	16,923	21,297	(a)
Benzol .. .. .	do.	8,872	10,565	(a)
Naphthalene .. .. .	do.	693	694	(a)
Creosote .. .. .	do.	3,483	5,623	(a)
Pitch .. .. .	do.	6,917	5,907	(a)
<b>Sweden—</b>				
Tar .. .. .	Long ton	18,564	20,807	(a)
Ammonium sulphate ..	do.	4,716	7,490	(a)
Benzol .. .. .	do.	2,108	2,014	(a)
<b>Switzerland—</b>				
Tar (gas works) .. ..	Long ton	24,219	25,568	26,847
Ammonium sulphate ..	do.	632	935	(a)
<b>Algeria—</b>				
Tar .. .. .	Long ton	3,938	(a)	(a)
Ammonium sulphate ..	do.	284	(a)	(a)
<b>United States (coke ovens only)—</b>				
Tar .. .. .	Gallon	455,716,004	526,537,306	567,386,972
Pitch .. .. .	Long ton	(a)	48,331	78,713
Sulphate equivalent of ammonia produced ..	do.	640,589	713,292	746,477
Benzol .. .. .	Gallon	18,339,800	17,876,457	20,787,109
Motor fuel .. .. .	do.	72,496,119	85,876,583	88,269,802

(a) Information not available.

(b) Estimated.

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

Producing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
United States (coke ovens only) (Cont.)—				
Naphthalene .. ..	Long ton	3,706	5,438	8,822
Toluol .. ..	Gallon	10,077,992	13,414,880	15,286,079
Solvent naphtha .. ..	do.	4,149,780	4,656,142	5,942,593
Crude light oils (j) .. ..	do.	137,073,528	157,164,963	167,161,689
Creosote .. ..	do.	(a)	10,321,667	22,275,105
Phenol .. ..	do.	(a)	48,162	70,569
Japan—				
Tar (estimated) .. ..	Long ton	120,000	120,000	120,000
Ammonium sulphate .. ..	do.	173,696	228,739	(a)
Naphthalene .. ..	do.	2,637	(a)	(a)
Creosote .. ..	do.	(a)	33,000	(a)

(a) Information not available.

(j) 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	1927	1928	1929
<b>BRITISH EMPIRE</b>				
<b>United Kingdom—</b>				
<b>Anthracite—</b>				
small and sized .. ..	Long ton	2,104,123	2,277,509	3,115,485
large .. ..	do.	1,025,423	879,846	1,101,841
<b>Bituminous—</b>				
small and sized .. ..	do.	13,077,754	13,357,843	17,428,593
unscreened .. ..	do.	12,287,534	12,927,647	15,708,525
large .. ..	do.	22,654,359	20,608,350	22,912,174
bunkers .. ..	do.	16,836,385	16,729,313	16,419,627
Coke .. ..	do.	1,802,252	2,593,613	2,903,837
Manufactured fuel .. ..	do.	1,348,861	1,032,166	1,230,566
do. (bunkers) .. ..	do.	4,243	281	795
Ammonium sulphate .. ..	do.	265,325	393,422	587,476
Ammonium chloride .. ..	do.	4,693	4,271	3,941
Tar and pitch .. ..	do.	283,287	262,631	401,345
Heavy coal-tar oils .. ..	Gallon	40,732,577	41,809,638	35,105,966
Naphthalene .. ..	Long ton	565	2,291	4,100
Anthracene .. ..	do.	87	67	1
Carbolic acid .. ..	do.	7,382	12,872	10,737
Benzol .. ..	Gallon	1,970,383	3,924,738	2,362,051
Toluol .. ..	do.	283	27,457	83,793
Naphtha .. ..	do.	63,297	82,575	66,241
<b>Irish Free State—</b>				
Coke .. ..	Long ton	20,520	20,037	20,652
Tar and pitch .. ..	do.	617	365	615
<b>Malta—</b>				
Coal (bunkers on merchant ships) (d) .. ..	Long ton	163,928	143,558	153,699
Coke .. ..	do.	640	1,175	75
<b>Nigeria—</b>				
Coal .. ..	Long ton	3,801	32,995	41,838
<b>Sierra Leone—</b>				
Coal (bunkers) (d) .. ..	Long ton	17,539	25,616	37,582
<b>Southern Rhodesia—</b>				
Coal .. ..	Long ton	237,721	451,600	439,330
Coke and patent fuel .. ..	do.	125,724	155,026	93,067

(d) Foreign coal (see imports).

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

Exporting Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE (Cont.)				
Union of South Africa—				
Coal .. .. .	Long ton	1,611,146	1,471,562	1,635,937
ditto (bunkers) ..	do.	1,642,706	1,475,629	1,549,133
Coke and patent fuel ..	do.	4,850	16,556	9,961
Ammonium sulphate ..	do.	38	—	10
Canada—				
Coal .. .. .	Long ton	969,239	740,629	723,954
Lignite .. .. .	do.	24,805	30,747	28,699
Foreign coal for ships' stores .. .. .	do.	449,579	611,126	413,031
Coke .. .. .	do.	81,726	40,103	47,438
Ammonium sulphate ..	do.	15,131	12,171	21,865
Tar and pitch .. ..	Gallon	2,914,642	3,572,781	3,069,247
Creosote oil .. .. .	do.	3,472,566	1,150,766	1,025,223
West Indies—				
Barbados—				
Coal (bunkers) (d) ..	Long ton	26,937	26,416	22,083
St. Lucia—				
Coal (bunkers) (d) ..	Long ton	19,611	24,902	43,047
Trinidad and Tobago—				
Coal (bunkers) (d) ..	Long ton	42,578	62,137	68,840
Aden—				
Coal .. .. .	Long ton	56	68	138
British Borneo—				
Brunei—				
Coal .. .. .	Long ton	52	25	—
Sarawak—				
Coke .. .. .	Long ton	7	8	5
British India—				
Coal .. .. .	Long ton	573,833	622,870	724,329
ditto (bunkers) (b) ..	do.	1,313,000	1,297,000	(a)
Coke .. .. .	do.	2,334	3,473	2,281
Ammonium sulphate ..	do.	6,748	13	—
British Malaya (including re-exports)—				
Coal .. .. .	Long ton	4,728	2,540	2,148
ditto (bunkers) ..	do.	529,997	571,433	563,066
Coke .. .. .	do.	1,973	938	909
Tar .. .. .	do.	486	1,960	401
Ceylon—				
Coal (bunkers) (d) ..	Long ton	533,761	500,652	506,859



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

Exporting Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
Australia (including re- exports)—				
Coal .. .. .	Long ton	609,304	398,028	292,442
ditto (bunkers) ..	do.	1,000,000	800,000	845,210
Coke .. .. .	do.	39,917	22,411	7,073
Ammonium sulphate ..	do.	4,711	2,314	10
Tar and pitch .. ..	do.	3,786	3,165	1,260
Benzene and benzol ..	Gallon	162,844	160,622	100,801
New Zealand—				
Coal .. .. .	Long ton	3,294	5,709	49,627
ditto (bunkers) ..	do.	140,146	120,062	155,776
Coke .. .. .	do.	19	20	54
Tar .. .. .	do.	24	7	249
Liquid ammonia ..	£	225	157	165
<b>FOREIGN COUNTRIES</b>				
Austria—				
Coal .. .. .	Long ton	3,953	4,321	7,043
Brown coal .. .. .	do.	17,103	9,835	8,129
Coke .. .. .	do.	140,669	59,878	26,568
Briquettes .. .. .	do.	275	305	366
Ammonium sulphate ..	do.	1,335	1,970	1,372
Ammonium chloride ..	do.	6	2	3
Liquid ammonia ..	do.	10	6	11
Tar and pitch .. ..	do.	7,674	7,879	10,984
Tar oils .. .. .	do.	4,444	3,642	3,777
Naphthalene .. .. .	do.	316	516	481
Cresol, etc. .. .. .	do.	42	15	23
Belgium-Luxemburg E.U.				
Coal .. .. .	Long ton	2,787,378	3,937,429	3,591,168
ditto (bunkers) ..	do.	133,646	209,305	139,126
Brown coal .. .. .	do.	36	42	73
Coke .. .. .	do.	864,510	796,433	726,444
Briquettes .. .. .	do.	511,373	699,084	645,851
ditto (bunkers) ..	do.	113,706	133,121	84,895
Ammonium sulphate ..	do.	7,106	19,183	56,907
Ammonium chloride ..	do.	270	306	462
Liquid ammonia ..	do.	1,073	1,201	5,393
Anthracene .. .. .	do.	25	12	—

(a) Information not available.

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

(d) Foreign coal (see imports).

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Belgium-Luxemburg E. U. (Cont.)—</b>				
Tar and pitch .. ..	Long ton	47,609	30,694	25,013
Naphthalene .. ..	do.	7,308	8,481	6,494
Aniline oil and salts .. ..	do.	73	7	82
Distillates .. ..	do.	84,658	111,058	95,075
<b>Bulgaria—</b>				
Coal and coke .. ..	Long ton	9,850	10,418	10,653
<b>Czechoslovakia—</b>				
Coal .. ..	Long ton	1,855,455	1,648,981	1,824,999
Brown coal .. ..	do.	2,873,615	2,951,168	3,013,394
Coke .. ..	do.	745,968	771,504	870,014
Briquettes .. ..	do.	156,644	138,058	158,395
Ammonium sulphate .. ..	do.	319	2,821	22,971
Ammonium chloride .. ..	do.	1	1	187
Liquid ammonia .. ..	do.	1	2	1
Tar and pitch .. ..	do.	13,209	7,539	14,024
Anthracene .. ..	do.	86	116	348
Benzol, etc. .. ..	do.	18,107	24,824	26,492
Crude naphthalene .. ..	do.	788	1,864	1,469
Carbolic acid .. ..	do.	5,482	4,333	2,088
Cresol .. ..	do.	70	39	444
Aniline oil and salts .. ..	do.	56	112	23
<b>Denmark—</b>				
Coke .. ..	Long ton	20,001	19,360	(a)
Ammonium sulphate .. ..	do.	693	458	821
Tar and pitch .. ..	do.	1,349	380	1,042
Benzol .. ..	do.	4	2	(a)
<b>France—</b>				
Coal .. ..	Long ton	4,196,021	4,738,738	4,967,551
ditto (bunkers) .. ..	do.	60,746	40,794	22,577
Coke .. ..	do.	394,837	411,250	461,420
Briquettes .. ..	do.	200,354	242,934	359,287
ditto (bunkers) .. ..	do.	1,119	512	1,422
Ammonium sulphate .. ..	do.	11,070	20,153	5,478
Liquid ammonia .. ..	do.	164	292	132
Tar .. ..	do.	66,266	52,047	32,853
Benzol .. ..	do.	14,120	20,058	20,388

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Germany—</b>				
Coal .. .. .	Long ton	26,453,545	23,517,738	26,346,308
Brown coal .. .. .	do.	26,177	32,426	28,623
Coke .. .. .	do.	8,654,718	8,744,941	10,485,033
Coal briquettes .. .. .	do.	738,657	666,612	772,133
Brown-coal briquettes .. .. .	do.	1,617,387	1,659,624	1,909,288
Ammonium sulphate .. .. .	do.	658,501	824,034	715,335
Ammonium chloride .. .. .	do.	25,110	35,019	23,264
Liquid ammonia.. .. .	do.	24,949	4,876	4,896
Tar and pitch .. .. .	do.	145,755	192,573	339,371
Naphthalene .. .. .	do.	12,649	21,577	17,741
Anthracene .. .. .	do.	358	1,459	1,086
Carbolic acid .. .. .	do.	575	772	1,377
Cresol .. .. .	do.	4,811	4,101	3,791
Light coal-tar oils, etc. .. .. .	do.	16,622	7,436	6,485
Heavy coal-tar oils, etc. .. .. .	do.	170,827	142,602	133,516
<b>Hungary—</b>				
Coal .. .. .	Long ton	134,338	91,395	1,102,405
Brown coal .. .. .	do.	165,203	189,767	288,100
Coke .. .. .	do.	2,138	1,304	1,861
Briquettes .. .. .	do.	1,701	1,144	1,741
Ammonium sulphate .. .. .	do.	—	5	193
Tar .. .. .	do.	359	355	115
Liquid ammonia .. .. .	do.	9	7	—
Benzols .. .. .	do.	27	24	22
<b>Italy—</b>				
Coal, etc. .. .. .	Long ton	88,375	} 155,010	162,703
ditto (bunkers) .. .. .	do.	108,843		
Coke .. .. .	do.	(b)	5,576	1,980
Ammonium sulphate .. .. .	do.	12,044	20,844	16,470
Tar and tar oils .. .. .	do.	834	1,705	1,915
Naphthalene .. .. .	do.	81	206	68
Benzol, toluol and xylol.. .. .	do.	14	20	45
Carbolic acid .. .. .	do.	16	28	11
Aniline and its salts .. .. .	do.	165	201	168
<b>Jugoslavia—</b>				
Anthracite .. .. .	Long ton	—	446	—
Bituminous coal .. .. .	do.	9,994	9,217	2,369
Brown coal and lignite .. .. .	do.	106,436	127,576	129,279
Coke .. .. .	do.	101	185	586

(a) Information not available.

(b) Included with "Coal, etc.".

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Jugoslavia (Cont.)—</b>				
Briquettes .. .. .	Long ton	86	—	73
Tar and pitch .. .. .	do.	15	107	35
Creosote .. .. .	do.	11	2	7
Benzol .. .. .	do.	—	10	64
<b>Latvia—</b>				
Coal .. .. .	Long ton	1,112	1,487	2,127
Coke .. .. .	do.	302	668	450
Tar .. .. .	do.	18	50	29
<b>Netherlands—</b>				
Coal .. .. .	Long ton	2,911,145	3,861,610	3,564,046
ditto (bunkers) .. .. .	do.	2,210,660	2,110,574	1,942,201
Brown coal .. .. .	do.	35	—	—
Coke .. .. .	do.	1,127,305	1,115,207	1,909,651
Briquettes .. .. .	do.	82,424	76,117	102,968
Brown-coal briquettes .. .. .	do.	13,322	15,956	28,393
Ammonium sulphate .. .. .	do.	34,876	30,823	32,377
Ammonium chloride .. .. .	do.	10	6	38
Liquid ammonia .. .. .	do.	163	266	255
Tar .. .. .	do.	10,174	10,999	11,341
Creosote .. .. .	do.	4,611	16,430	13,495
Naphthalene .. .. .	do.	1,120	1,066	2,150
Anthracene .. .. .	do.	728	781	1,975
Carbolic acid, etc. .. .. .	do.	1,753	2,002	2,186
Benzol .. .. .	do.	7,815	9,355	12,876
Toluol and xylol .. .. .	do.	296	464	835
Naphtha .. .. .	do.	163	339	391
<b>Norway—</b>				
Tar .. .. .	Long ton	844	384	(a)
Creosote .. .. .	do.	—	361	(a)
Naphthalene .. .. .	do.	—	1	—
<b>Poland—</b>				
Bituminous coal .. .. .	Long ton	10,919,285	12,351,054	} 13,713,740
Brown coal .. .. .	do.	—	37	
Briquettes .. .. .	do.	10,785	8,873	9,102
Coke .. .. .	do.	118,674	160,138	147,492
Ammonium sulphate .. .. .	do.	11,337	17,983	18,142
Liquid ammonia .. .. .	do.	30	29	1
Tar and pitch .. .. .	do.	1,221	1,051	4,539
Naphthalene .. .. .	do.	1,286	3,134	(a)
Anthracene, etc. .. .. .	do.	1,072	787	(a)
Carbolic acid, etc. .. .. .	do.	990	1,316	(a)
Benzol .. .. .	do.	7,922	13,636	14,761
Creosote, etc. .. .. .	do.	109	77	(a)

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
Portugal—				
Coal .. .. .	Long ton	65	306	835
ditto (bunkers) .. .. .	do.	247,584	261,265	237,925
Tar and pitch .. .. .	do.	101	113	85
Rumania—				
Anthracite .. .. .	Long ton	29,862	34,372	(a)
Bituminous coal .. .. .	do.	656	112	(a)
Brown coal .. .. .	do.	214	220	(a)
Coke .. .. .	do.	40	—	(a)
Ammonium chloride .. .. .	do.	179	42	(a)
Russia (years ended Sept. 30)				
Anthracite .. .. .	Long ton	84,262	112,398	416,798
Other coal .. .. .	do.	341,984	382,543	714,970
Coke .. .. .	do.	(a)	183	688
Tar .. .. .	do.	34,102	21,680	(a)
Spain (including re-exports)—				
Coal .. .. .	Long ton	21,295	57,584	69,234
Coke .. .. .	do.	93	10	35
Spitzbergen—				
Coal .. .. .	Long ton	291,058	274,444	235,918
Sweden—				
Anthracite .. .. .	Long ton	24	2	14
Bituminous coal .. .. .	do.	318	20	189
Coke .. .. .	do.	982	1,296	2,284
Ammonium sulphate .. .. .	do.	220	403	650
Liquid ammonia .. .. .	do.	9	31	38
Tar, pitch, etc. .. .. .	do.	3,243	8,850	8,085
Benzol oils .. .. .	do.	1,215	1,769	842
Carbolic acid, etc. .. .. .	do.	40	36	26
Naphthalene .. .. .	do.	80	37	35

(a) Information not available.

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>Switzerland—</b>				
Coal .. .. .	Long ton	68	49	48
Coke .. .. .	do.	877	734	1,182
Briquettes .. .. .	do.	946	73	25
Ammonium sulphate, etc.	do.	1,651	4,603	2,823
Liquid ammonia .. .. .	do.	77	15	—
Tar and pitch .. .. .	do.	1,011	477	367
Creosote, etc. .. .. .	do.	312	381	633
Benzol, naphthalene, etc.	do.	518	495	588
<b>Belgian Congo—</b>				
Coal and briquettes .. .. .	Long ton	5	—	16
<b>Cape Verde Islands—</b>				
Coal (bunkers) .. .. .	Long ton	(a)	241,323	276,093
<b>Egypt—</b>				
Coal (bunkers) .. .. .	Long ton	1,050,364	1,142,148	1,210,383
Coke .. .. .	do.	283	710	(a)
<b>Mozambique—</b>				
Coal .. .. .	do.	4,430	2,032	1,776
<b>Senegal—</b>				
Coal (bunkers) .. .. .	Long ton	163,569	226,395	214,398
<b>United States—</b>				
Anthracite .. .. .	Long ton	2,969,203	2,978,814	3,041,401
Bituminous .. .. .	do.	16,081,914	14,432,576	15,561,873
ditto (bunkers) .. .. .	do.	4,076,141	3,834,128	3,827,249
Coke .. .. .	do.	720,236	980,059	1,105,388
Ammonium sulphate .. .. .	do.	140,492	93,015	145,189
Tar and pitch .. .. .	do.	150,302	69,192	45,638
Benzol .. .. .	Gallon	21,494,635	17,782,025	27,788,651
<b>Argentina—</b>				
Coal (bunkers) (d) .. .. .	Long ton	253,684	142,875	(a)
<b>Brazil—</b>				
Coal .. .. .	Long ton	—	112	157

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>Chile—</b>				
Coal .. .. .	Long ton	18,455	15,584	17,729
ditto (bunkers) ..	do.	338,859	312,333	343,003
Briquettes .. ..	do.	(a)	(a)	2,574
Coke .. .. .	do.	303	607	149
<b>Uruguay—</b>				
Coal .. .. .	Long ton	130,317	135,169	106,590
<b>China—</b>				
Coal .. .. .	Long ton	3,434,572	3,257,210	3,475,051
ditto (bunkers) ..	do.	579,455	628,048	648,230
Coke .. .. .	do.	12,784	13,987	13,254
Ammonium sulphate ..	do.	6,194	7,264	8,841
<b>Dutch East Indies—</b>				
Coal .. .. .	Long ton	411,136	470,361	(a)
ditto (bunkers) ..	do.	137,356	134,912	(a)
<b>Formosa—</b>				
Coal .. .. .	Long ton	296,225	213,793	117,564
ditto (bunkers) ..	do.	77,991	52,980	(a)
Coal dust .. .. .	do.	264,165	151,002	228,523
ditto (bunkers) ..	do.	119,828	107,547	(a)
Coke .. .. .	do.	1,224	1,293	760
Tar .. .. .	do.	173	210	213
<b>French Indo-China—</b>				
Coal .. .. .	Long ton	945,505	1,010,068	1,299,724
Briquettes .. ..	do.	47,551	40,743	29,665
<b>Japan—</b>				
Coal .. .. .	Long ton	2,173,449	2,150,432	2,011,402
ditto (bunkers) ..	do.	2,489,816	2,423,833	(a)
Tar and pitch .. ..	do.	24,654	25,039	17,229
Naphthalene .. ..	do.	108	(a)	(a)
<b>Korea—</b>				
Coal .. .. .	Long ton	(a)	273,802	285,917
<b>Persia (c) (i)—</b>				
Coal, coke and peat ..	Long ton	58	15	—
<b>Turkey—</b>				
Coal, coke and lignite ..	Long ton	98,574	92,272	98,672(k)

(a) Information not available.

(c) Including re-exports.

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

(i) Years ended March 21 of the year stated.

(k) January to September only. Imports October to December (including peat and briquettes) 54,539 long tons.

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE</b>				
United Kingdom—				
Coal .. .. .	Long ton	2,417,757	27,252	20,950
Coke .. .. .	do.	62,572	1,131	809
Manufactured fuel .. .. .	do.	8,354	3,827	573
Ammonium sulphate .. .. .	do.	(h) 131	(h) 167	188
Ammonium chloride .. .. .	do.	2,845	2,763	2,733
Tar and pitch .. .. .	do.	12,479	5,012	1,995
Heavy coal-tar oils .. .. .	Gallon	411,604	274,146	111,523
Naphthalene .. .. .	Long ton	1,202	2,398	1,396
Anthracene .. .. .	do.	468	876	462
Carbolic acid .. .. .	do.	119	328	32
Benzol .. .. .	Gallon	13,004,699	3,590,647	4,507,176
Naphtha .. .. .	do.	47,112	7,425	9,167
Irish Free State (total imports)—				
Anthracite .. .. .	Long ton	50,924	34,995	35,796
Bituminous coal .. .. .	do.	2,446,217	2,370,274	2,425,333
Coke .. .. .	do.	15,729	13,179	17,799
Ammonium sulphate .. .. .	do.	15,649	15,443	20,712
Tar and pitch .. .. .	do.	14,807	16,675	16,851
Creosote etc. .. .. .	do.	1,339	1,329	630
Malta—				
Coal, coke etc. (n) .. .. .	Long ton	236,107	168,520	176,082
Anglo-Egyptian Sudan—				
Coal .. .. .	Long ton	102,308	96,495	122,004
Coke .. .. .	do.	3,256	774	786
Patent fuel .. .. .	do.	5,188	5,323	8,123
Tar and pitch .. .. .	do.	50	46	(a)
Gambia—				
Coal, coke and patent fuel	Long ton	5,077	4,798	3,600
Gold Coast—				
Coal .. .. .	Long ton	66,874	50,451	72,252
Coke .. .. .	do.	156	216	249
Patent fuel .. .. .	do.	219	344	338
Kenya and Uganda—				
Coal .. .. .	Long ton	45,769	58,614	91,226
Coke .. .. .	do.	299	401	330
Tar, pitch and bitumen..	do.	—	921	1,360
Creosote, etc. .. .. .	Gallon	49,973	22,107	35,971



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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>				
<b>Mauritius—</b>				
Coal .. .. .	Long ton	40,352	57,337	34,906
Coke .. .. .	do.	7,234	537	641
Patent fuel .. .. .	do.	13,791	11,482	13,911
Tar .. .. .	do.	51	29	57
Ammonium sulphate ..	do.	11,118	6,436	8,803
<b>Nigeria—</b>				
Coal .. .. .	Long ton	15,738	18,216	20,852
Coke and patent fuel ..	do.	364	956	731
<b>Northern Rhodesia—</b>				
Coal .. .. .	Long ton	78,178	146,096	135,475
Coke .. .. .	do.	3,690	7,714	3,860
<b>Nyasaland—</b>				
Coal and coke .. .. .	Long ton	2,757	2,451	3,131
<b>Seychelles—</b>				
Coal .. .. .	Long ton	—	258	—
<b>Sierra Leone—</b>				
Coal (n) .. .. .	Long ton	26,336	28,932	42,315
Coke .. .. .	do.	4,970	32	32
<b>Southern Rhodesia—</b>				
Coke and patent fuel ..	Long ton	110	89	132
Tar, pitch, etc. .. .. .	do.	225	434	426
<b>South-West Africa—</b>				
Coal .. .. .	Long ton	8,327	7,547	15,621
Coke .. .. .	do.	179	205	532
<b>Tanganyika Territory—</b>				
Coal .. .. .	Long ton	2,711	3,498	17,542
Coke .. .. .	do.	287	10	148
Patent fuel .. .. .	do.	—	—	23
Creosote .. .. .	Gallon	—	7,806	—
<b>Union of South Africa—</b>				
Coal .. .. .	Long ton	195	2	} 3,771
Coke and patent fuel ..	do.	1	10	
Ammonium sulphate ..	do.	1,218	3,319	2,738
Ammonium chloride ..	do.	31	21	35
Liquid ammonia .. .. .	Gallon	17,786	10,351	12,361
Benzine and benzol ..	do.	6,718	384	36,370
Tar .. .. .	Long ton	353	446	930
Naphthalene .. .. .	do.	247	267	253
Creosote .. .. .	Gallon	49,176	141,710	222,545

(a) Information not available.

(h) Excess of re-exports.

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

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

Importing Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE ( <i>Cont.</i> )				
Zanzibar—				
Coal .. .. .	Long ton	9,395	3,513	4,877
Canada—				
Anthracite (total imports)	Long ton	3,667,727	3,347,157	3,589,212
Bituminous coal (total imports) .. .. .	do.	12,558,163	11,394,182	12,238,877
Brown coal (total imports)	do.	9,669	9,625	12,596
Coke .. .. .	do.	690,123	946,893	1,095,737
Ammonium sulphate .. .. .	do.	2,840	3,134	1,538
Ammonium chloride .. .. .	do.	1,579	1,614	1,543
Tar and pitch .. .. .	Gallon	3,812,637	6,003,182	6,429,566
Naphthalene, .. .. .	Long ton	222	253	480
Carbolic acid, etc. .. .. .	Gallon	1,336,312	1,803,659	2,398,042
Aniline oil and salts .. .. .	Long ton	61	149	299
Newfoundland (years ended June 30)—				
Anthracite .. .. .	Long ton	} 346,771	14,082	12,618
Other coal .. .. .	do.		363,453	359,855
Coke .. .. .	do.		597	673
Tar .. .. .	£		5,981	6,733
British Guiana—				
Coal .. .. .	Long ton	19,364	20,230	15,166
Coke .. .. .	do.	141	111	80
Patent fuel .. .. .	do.	5,000	2,100	4,019
West Indies—				
Bahamas—				
Coal .. .. .	Long ton	678	1,234	272
Barbados—				
Coal ( <i>n</i> ) .. .. .	Long ton	27,868	38,203	( <i>a</i> )
Ammonium sulphate.. .. .	do.	4,100	4,629	( <i>a</i> )
Bermuda—				
Anthracite .. .. .	Long ton	722	—	—
Bituminous coal .. .. .	do.	16,695	14,179	5,611
Coke .. .. .	do.	—	23	—
Jamaica—				
Coal .. .. .	Long ton	115,791	123,268	112,887
Coke .. .. .	do.	130	—	—
Leeward Islands ( <i>m</i> )—				
Coal, coke, etc. .. .. .	Long ton	1,897	1,892	2,073
St. Lucia—				
Coal ( <i>n</i> ) .. .. .	Long ton	20,827	19,701	37,835

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
<b>West Indies (<i>Cont.</i>)—</b>				
<b>Trinidad and Tobago—</b>				
Coal ( <i>n</i> ) .. .. .	Long ton	55,860	78,234	83,489
Coke .. .. .	do.	88	69	43
Patent fuel .. .. .	do.	4,249	2,300	1,775
<b>British Honduras—</b>				
Coal and coke .. .. .	Long ton	588	698	885
<b>Aden (total imports)—</b>				
Coal ( <i>o</i> ) .. .. .	Long ton	145,427	95,409	134,693
Coke .. .. .	do.	75	81	30
Tar and pitch .. .. .	do.	37	27	70
Aniline .. .. .	do.	18	12	—
Naphthalene .. .. .	do.	283	559	223
<b>British India (total imports)—</b>				
Coal .. .. .	Long ton	236,292	188,216	204,529
Coke .. .. .	do.	7,311	21,970	14,031
Coal and coke on government account .. .. .	do.	50	287	199
Tar and pitch .. .. .	do.	3,185	3,469	2,581
Naphthalene .. .. .	do.	464	423	445
Carbolic acid .. .. .	do.	68	48	38
Ammonium sulphate .. .. .	do.	2,755	14,188	23,901
Ammonium salts .. .. .	do.	1,670	1,348	1,758
<b>British Malaya (total imports)—</b>				
Coal ( <i>n</i> ) .. .. .	Long ton	876,248	811,929	830,483
Coke .. .. .	do.	8,758	7,682	7,819
Tar .. .. .	do.	1,821	1,960	2,132
<b>Ceylon—</b>				
Coal ( <i>n</i> ) .. .. .	Long ton	742,387	644,980	812,545
Coke .. .. .	do.	1,071	1,043	1,109
Briquettes .. .. .	do.	14,312	3	—
Ammonium sulphate .. .. .	do.	12,852	13,796	16,444
Tar and pitch .. .. .	do.	2,666	8,159	2,134

(a) Information not available.

(*n*) Total imports, including inter-presidency trade.

(*n*) Imported chiefly for bunkering purposes. See exports.

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

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
Cyprus—				
Coal .. .. .	Long ton	9,696	8,889	8,394
Tar and pitch .. .. .	do.	50	185	249
Ammonium chloride .. .. .	do.	2	4	4
Palestine (total imports)—				
Anthracite .. .. .	Long ton	16,769	16,228	12,352
Other coal .. .. .	do.	19,810	17,091	16,593
Briquettes .. .. .	do.	3,272	3,802	4,366
Tar and pitch .. .. .	do.	83	101	37
Australia—				
Coal .. .. .	Long ton	23,563	17,870	519,818
Coke .. .. .	do.	46,419	34,544	25,608
Ammonium sulphate .. .. .	do.	116	402	5,626
Ammonium chloride .. .. .	do.	405	538	496
Tar and pitch .. .. .	do.	704	597	61
Naphthalene .. .. .	do.	153	177	250
Carbolic acid .. .. .	do.	45	52	65
Benzene and benzol .. .. .	Gallon	3,884	36,908	—
Tar oil .. .. .	do.	63,396	23,252	43,913
Fiji—				
Coal .. .. .	Long ton	29,819	22,426	25,899
Coke .. .. .	do.	899	509	427
Tar and pitch .. .. .	£	1,470	684	2,502
New Zealand—				
Coal .. .. .	Long ton	372,586	235,819	211,966
Coke .. .. .	do.	887	1,005	1,473
Ammonium sulphate .. .. .	do.	825	2,121	8,992
Ammonium chloride .. .. .	£	881	1,477	1,175
Tar and pitch .. .. .	Long ton	4,055	3,180	1,186
Carbolic acid .. .. .	do.	11	10	9
Benzol, toluol, etc. .. .. .	Gallon.	3,974	8,870	4,953
Creosote .. .. .	£	209	169	187
Naphthalene .. .. .	£	908	965	839
Solomon Islands—				
Coal .. .. .	Long ton	668	705	853
Western Samoa—				
Coal .. .. .	£	704	1,798	520
<b>FOREIGN COUNTRIES</b>				
Austria—				
Coal .. .. .	Long ton	4,488,778	4,520,825	5,218,696
Brown coal .. .. .	do.	406,852	405,621	520,586
Coke .. .. .	do.	564,603	636,382	736,216

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>Austria (<i>Cont.</i>)—</b>				
Briquettes .. ..	Long ton	52,698	58,689	77,591
Ammonium sulphate ..	do.	454	226	188
Ammonium chloride ..	do.	221	210	230
Liquid ammonia .. ..	do.	16	14	17
Refined carbolic acid ..	do.	516	596	516
Tar and pitch .. ..	do.	1,020	1,644	1,215
Naphthalene .. ..	do.	15	31	21
Cresol, etc. .. ..	do.	99	107	112
Tar oils .. ..	do.	2,669	3,647	2,404
Aniline oil and salts ..	do.	74	94	71
<b>Belgium-Luxemburg E.U.—</b>				
Coal .. ..	Long ton	9,139,284	8,783,919	11,195,492
Brown coal .. ..	do.	152,125	153,438	175,176
Coke .. ..	do.	2,878,078	2,733,351	3,350,862
Briquettes .. ..	do.	69,616	96,554	181,174
Ammonium sulphate ..	do.	47,115	50,042	37,045
Ammonium chloride ..	do.	799	4,465	4,310
Liquid ammonia .. ..	do.	158	15	116
Tar and pitch .. ..	do.	112,728	117,935	128,093
Naphthalene .. ..	do.	12,738	14,749	5,358
Aniline oil and salts ..	do.	345	260	229
Anthracene .. ..	do.	1,393	1,102	1,400
Distillates .. ..	do.	7,718	6,956	7,544
<b>Bulgaria—</b>				
Coal and coke .. ..	Long ton	6,614	7,293	8,779
Ammonium chloride ..	do.	104	66	75
Liquid ammonia .. ..	do.	24	29	(a)
Carbolic acid .. ..	do.	5	8	(a)
Naphthalene .. ..	do.	284	332	(a)
<b>Czechoslovakia—</b>				
Coal .. ..	Long ton	1,699,159	2,423,429	2,293,840
Brown coal .. ..	do.	23,720	63,401	105,533
Coke .. ..	do.	236,030	261,770	379,442
Briquettes .. ..	do.	24,308	33,434	37,101
Ammonium sulphate ..	do.	2,632	1,091	1,117
Ammonium chloride ..	do.	451	439	175
Liquid ammonia .. ..	do.	—	—	21
Tar and pitch .. ..	do.	2,941	13,829	12,564
Benzol, etc. .. ..	do.	42	34	144

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Czechoslovakia (Cont.)—</b>				
Distillates .. ..	Long ton	84	285	94
Crude naphthalene ..	do.	1	6	5
Crude carbolic acid ..	do.	17	6	80
Cresol .. ..	do.	3	27	49
Aniline oil and salts ..	do.	169	207	158
<b>Denmark—</b>				
Coal .. ..	Long ton	3,573,350	3,162,862	3,947,247
Coke .. ..	do.	912,361	954,617	1,053,821
Brown coal .. ..	do.	1,226	384	—
Briquettes .. ..	do.	386,521	325,668	340,125
Ammonium sulphate ..	do.	49,276	43,272	47,826
Ammonium chloride ..	do.	297	337	434
Tar and pitch .. ..	do.	3,533	8,505	7,520
Benzol .. ..	do.	482	621	792
Carbolic acid .. ..	do.	34	6	9
<b>Estonia—</b>				
Coal .. ..	Long ton	91,692	89,299	100,265
Coke .. ..	do.	3,125	4,390	2,548
Ammonium sulphate ..	do.	199	166	520
Ammonium chloride ..	do.	12	12	28
Liquid ammonia .. ..	do.	12	12	—
Tar .. ..	do.	953	1,059	858
Naphthalene .. ..	do.	13	13	10
Carbolic acid .. ..	do.	19	15	1
Benzol .. ..	do.	3	2	4
<b>Finland—</b>				
Anthracite .. ..	Long ton	3,316	87	600
Bituminous .. ..	do.	888,098	924,194	956,920
Brown coal, briquettes, etc. .. ..	do.	1,376	17	21
Coke .. ..	do.	125,977	135,152	193,942
Ammonium sulphate ..	do.	289	179	281
Ammonium chloride ..	do.	16	26	24
Tar and pitch .. ..	do.	4,758	4,223	3,552
Creosote and creosole ..	do.	1,458	1,360	1,262
Naphthalene .. ..	do.	70	72	89
Benzol .. ..	do.	47	62	109
Carbolineum .. ..	do.	152	200	172
Liquid ammonia .. ..	do.	13	16	18

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>France—</b>				
Coal .. .. .	Long ton	18,683,116	17,234,065	23,283,555
Coke .. .. .	do.	4,645,936	5,283,345	5,364,532
Briquettes .. .. .	do.	1,034,673	1,142,383	1,277,661
Ammonium sulphate .. .. .	do.	186,631	213,740	115,013
Liquid ammonia .. .. .	do.	177	282	455
Tar and pitch .. .. .	do.	361,400	288,306	523,824
Naphthalene, etc. .. .. .	do.	(a)	3,742	4,410
Carbolic acid, etc. .. .. .	do.	(a)	721	1,167
Benzol .. .. .	do.	2,846	6,960	5,791
<b>Germany—</b>				
Coal .. .. .	Long ton	5,249,669	7,291,117	7,778,124
Brown coal .. .. .	do.	2,519,213	2,723,861	2,744,132
Coke .. .. .	do.	143,345	258,322	430,645
Coal briquettes .. .. .	do.	4,194	11,503	21,807
Brown-coal briquettes .. .. .	do.	148,968	151,654	143,477
Ammonium sulphate .. .. .	do.	279	236	209
Ammonium chloride .. .. .	do.	25	22	79
Tar and pitch .. .. .	do.	66,563	29,548	39,389
Naphthalene .. .. .	do.	3,623	4,228	3,586
Anthracene .. .. .	do.	788	722	1,611
Carbolic acid .. .. .	do.	2,356	2,523	2,051
Cresol .. .. .	do.	957	2,135	909
Light coal-tar oils, etc. .. .. .	do.	128,834	160,301	162,469
Heavy coal-tar oils, etc. . . . .	do.	12,281	8,771	10,147
<b>Greece—</b>				
Coal .. .. .	Long ton	702,600	684,412	773,036
Naphthalene .. .. .	do.	335	530	552
Pitch .. .. .	do.	426	399	321
<b>Hungary—</b>				
Coal .. .. .	Long ton	1,074,791	1,166,586	1,255,619
Brown coal .. .. .	do.	29,549	21,952	22,869
Coke .. .. .	do.	384,661	446,486	551,653
Briquettes .. .. .	do.	4,478	1,912	636
Ammonium sulphate .. .. .	do.	1,656	1,651	872
Liquid ammonia .. .. .	do.	20	26	31
Tar and pitch .. .. .	do.	7,061	6,843	10,062
Benzols .. .. .	do.	5,020	7,145	3,818
Carbolic acid and cresol .. .. .	do.	3	9	17
Aniline oil .. .. .	do.	152	105	77
Anthracene, etc .. .. .	do.	118	162	175

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929	
<b>FOREIGN COUNTRIES (Cont.)</b>					
<b>Italy—</b>					
Coal, etc. . . . .	Long ton	} 13,836,683	11,853,422	13,312,016	
Coke . . . . .	do.		644,111	1,060,131	
Ammonium sulphate . . . . .	do.		12,897	14,212	10,927
Ammonium chloride . . . . .	do.		548	463	651
Tar and tar oils . . . . .	do.		16,512	15,162	8,767
Carbolic acid . . . . .	do.		194	687	662
Aniline and its salts . . . . .	do.		173	170	150
Naphthalene . . . . .	do.		79	1,246	2,713
Benzol, toluol and xylol . . . . .	do.	4,417	6,202	7,224	
<b>Jugoslavia—</b>					
Anthracite . . . . .	Long ton	57,248	55,119	60,498	
Bituminous coal . . . . .	do.	214,893	253,687	315,166	
Brown coal and lignite . . . . .	do.	23,400	36,362	31,082	
Coke . . . . .	do.	144,767	171,455	242,332	
Briquettes . . . . .	do.	1,803	7,096	4,418	
Ammonium sulphate . . . . .	do.	(a)	329	383	
Ammonium chloride . . . . .	do.	(a)	130	109	
Tar . . . . .	do.	2,336	2,577	3,328	
Light oils . . . . .	do.	326	328	539	
Heavy oils . . . . .	do.	1,369	2,574	1,997	
Naphthalene, etc. . . . .	do.	476	525	643	
<b>Latvia—</b>					
Coal . . . . .	Long ton	457,761	464,405	577,739	
Coke . . . . .	do.	47,395	45,800	50,022	
Briquettes . . . . .	do.	4,529	4,911	19,255	
Ammonium chloride . . . . .	do.	13	28	20	
Tar and pitch . . . . .	do.	2,378	2,601	4,331	
Carbolic acid . . . . .	do.	3,237	13	6	
Naphthalene . . . . .	do.	62	63	21	
<b>Lithuania—</b>					
Coal . . . . .	Long ton	195,756	172,050	235,516	
Coke . . . . .	do.	7,165	8,830	15,458	
Briquettes . . . . .	do.	16,319	12,696	12,996	
Carbolic acid . . . . .	do.	66	6	495	
Naphthalene . . . . .	do.	29	21	17	
<b>Netherlands—</b>					
Coal . . . . .	Long ton	8,682,254	8,621,452	9,466,497	
Brown coal . . . . .	do.	719	528	—	
Coke . . . . .	do.	273,225	296,534	364,965	
Briquettes . . . . .	do.	364,371	328,382	322,114	
Brown-coal briquettes . . . . .	do.	164,707	166,109	182,725	



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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES (Cont.)				
Netherlands (Cont.)—				
Ammonium sulphate ..	Long ton	106,491	136,908	124,475
Ammonium chloride ..	do.	290	280	314
Liquid ammonia ..	do.	693	573	849
Tar .. .. .	do.	348	3,631	9,985
Creosote .. .. .	do.	640	4,071	1,067
Naphthalene .. ..	do.	988	405	400
Carbolic acid, etc. ..	do.	412	438	490
Benzol .. .. .	do.	280	294	314
Toluol and xylol ..	do.	29	72	164
Naphtha .. .. .	do.	299	300	238
Norway—				
Coal .. .. .	Long ton	2,199,983	2,087,665	2,385,342
Coke .. .. .	do.	429,921	474,992	442,101
Ammonium sulphate ..	do.	80	371	204
Ammonium salts ..	do.	189	219	(a)
Tar and pitch .. ..	do.	3,974	7,158	5,373
Creosote, etc. .. ..	do.	3,480	2,879	3,592
Carbolic acid .. ..	do.	1	1	(a)
Poland—				
Anthracite .. ..	Long ton	207	270	} 60,147
Bituminous coal ..	do.	49,351	48,656	
Brown coal .. ..	do.	11	26	
Briquettes .. ..	do.	17,768	17,643	21,093
Coke .. .. .	do.	166,239	177,883	229,291
Ammonium sulphate ..	do.	3,055	1,180	308
Ammonium chloride ..	do.	195	184	(a)
Liquid ammonia ..	do.	8	6	3
Tar and pitch .. ..	do.	17,857	16,884	17,649
Creosote, etc. .. ..	do.	183	44	(a)
Benzol .. .. .	do.	43	67	2,280
Carbolic acid, etc. ..	do.	51	189	(a)
Anthracene, etc. . .	do.	438	822	(a)
Portugal—				
Coal and coke .. ..	Long ton	1,059,467	1,127,941	1,120,737
Briquettes .. ..	do.	14,634	19,653	7,944
Ammonium sulphate ..	do.	10,466	11,726	14,981
Tar and pitch .. ..	do.	748	784	636
Carbolic acid .. ..	do.	1	2	2
Naphthalene .. ..	do.	75	49	112
Ammonium chloride ..	do.	(a)	12	50

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Rumania—</b>				
Anthracite .. ..	Long ton	7,164	} (a)	} (a)
Bituminous coal.. ..	do.	111,748		
Brown coal .. ..	do.	13,627		
Coke .. ..	do.	52,158		
Briquettes .. ..	do.	1,586		
Ammonium chloride .. ..	do.	322		
Liquid ammonia.. ..	do.	153		
Naphthalene, etc. .. ..	do.	211		
Carbolic acid, etc. .. ..	do.	72		
Aniline oil .. ..	do.	9		
<b>Russia (years ended Sept. 30)</b>				
Coal .. ..	Long ton	464,113	60,407	52,498
Coke and briquettes .. ..	do.	19,490	61	50
Pitch .. ..	do.	(a)	8	18
Benzol, etc. .. ..	do.	(a)	5	1
Carbolic acid .. ..	do.	(a)	90	42
Cresol .. ..	do.	(a)	141	90
<b>Spain (total imports)—</b>				
Anthracite .. ..	Long ton	107,154	111,520	119,367
Bituminous coal .. ..	do.	1,859,670	1,486,147	1,606,137
Other coal .. ..	do.	6,312	10,230	13,496
Coke .. ..	do.	204,763	203,301	287,003
Briquettes .. ..	do.	58,532	46,711	24,804
Ammonium sulphate .. ..	do.	166,560	212,437	237,366
Benzol, toluol, xylol, etc.	do.	9	7	33
Cresol and carbolic acid.. ..	do.	51	47	40
Naphthalene, etc. .. ..	do.	28	25	3
<b>Sweden—</b>				
Anthracite .. ..	Long ton	76,255	72,525	71,915
Bituminous coal.. ..	do.	4,714,266	3,931,222	4,843,564
Coke .. ..	do.	954,496	1,089,891	1,245,125
Briquettes .. ..	do.	18,999	23,281	16,298
Ammonium sulphate .. ..	do.	983	792	1,577
Ammonium chloride .. ..	do.	261	247	310
Liquid ammonia .. ..	do.	79	76	36
Tar, pitch, etc. .. ..	do.	4,638	4,692	4,452
Benzol oils .. ..	do.	124	256	118
Creosote, etc. .. ..	do.	6,305	6,446	5,348
Naphthalene .. ..	do.	90	121	134
Carbolic acid, etc. .. ..	do.	315	373	402

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Switzerland—</b>				
Coal .. .. .	Long ton	1,951,157	1,878,018	2,032,973
Lignite .. .. .	do.	593	232	390
Coke .. .. .	do.	516,296	591,218	787,185
Briquettes .. .. .	do.	481,717	511,599	587,234
Ammonium sulphate, etc.	do.	1,445	1,367	2,071
Ammonium chloride ..	do.	205	219	210
Liquid ammonia .. ..	do.	45	45	44
Tar and pitch .. .. .	do.	20,915	27,567	24,984
Creosote etc. .. .. .	do.	3,255	1,395	1,197
Benzol, naphthalene, etc.	do.	5,716	6,535	7,306
Aniline .. .. .	do.	1,426	1,517	1,666
<b>Algeria—</b>				
Coal .. .. .	Long ton	494,634	446,186	557,149
Coke .. .. .	do.	2,674	2,892	2,208
Briquettes .. .. .	do.	222,976	230,695	312,926
Ammonium sulphate ..	do.	6,043	6,809	9,686
Tar .. .. .	do.	5,127	6,537	8,930
Benzol .. .. .	do.	73	112	224
<b>Angola—</b>				
Coal .. .. .	Long ton	33,359	24,791	(a)
Coke .. .. .	do.	68	183	(a)
Tar .. .. .	do.	200	(a)	(a)
<b>Belgian Congo—</b>				
Coal .. .. .	Long ton	151,644	275,875	300,462
Coke .. .. .	do.	127,959	125,839	91,377
Briquettes .. .. .	do.	55,506	55,269	66,935
<b>Cameroon (French)—</b>				
Coal .. .. .	Long ton	8,637	4,207	1,575
<b>Cape Verde Islands—</b>				
Coal (n) .. .. .	Long ton	324,231	241,323	312,829
<b>Dahomey—</b>				
Coal .. .. .	Long ton	5,789	4,861	4,974
<b>Egypt—</b>				
Coal .. .. .	Long ton	1,365,413	1,167,772	1,152,964
Coke .. .. .	do.	20,160	14,686	31,463
Patent fuel .. .. .	do.	29,778	23,869	47,644
Ammonium sulphate ..	do.	2,905	4,409	2,549
Ammonium chloride ..	do.	266	278	283
Liquid ammonia .. ..	do.	36	36	39
Pitch .. .. .	do.	3,911	5,405	7,303
Naphthalene .. .. .	do.	66	143	118
Carbolic acid .. .. .	do.	18	22	11
Aniline salt .. .. .	do.	230	193	233

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
French Guinea—				
Coal, coke and briquettes	Long ton	1,831	158	24
French Equatorial Africa—				
Coal .. .. .	Long ton	505	806	817
Ivory Coast—				
Coal, coke and briquettes	Long ton	719	1,015	1,883
Madagascar—				
Coal and coke .. ..	Long ton	33,838	39,552	(a)
Morocco—				
Coal .. .. .	Long ton	180,972	144,791	173,203
Coke .. .. .	do.	848	803	4,469
Tar and bitumen ..	do.	6,554	6,218	10,851
Mozambique—				
Coal .. .. .	Long ton	74,365	75,250	152,608
Coke .. .. .	do.	242	137	127
Tar and pitch .. ..	do.	165	90	217
Réunion—				
Coal (n) .. .. .	Long ton	13,169	6,257	6,082
Ammonium sulphate ..	do.	204	660	844
Senegal—				
Coal (n) .. .. .	Long ton	145,285	269,391	284,096
Coke .. .. .	do.	890	117	(a)
Briquettes .. .. .	do.	66,773	49,181	(a)
Togoland—				
Briquettes .. .. .	Long ton	1,545	2,196	—
Tar .. .. .	do.	91	88	92
Tunis—				
Coal .. .. .	Long ton	227,099	206,991	223,995
Coke .. .. .	do.	4,385	7,668	7,312
Briquettes .. .. .	do.	20,765	10,861	22,008
Tar .. .. .	do.	7,048	8,427	2,103
Distillates .. .. .	do.	137	523	403
Cuba (b)—				
Anthracite .. .. .	Long ton	31,173	} 581,331	(a)
Bituminous coal .. ..	do.	509,102		(a)
Coke .. .. .	do.	75,520		(a)
Dominican Republic (b)—				
Coal .. .. .	Long ton	10,003	6,046	8,393
French West Indies—				
Guadeloupe—				
Coal .. .. .	Long ton	8,354	(a)	(a)

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

Importing Country and Description.	Unit	1927	1928	1929
FOREIGN COUNTRIES (Cont.)				
French West Indies—(Cont.)				
Martinique—				
Coal .. .. .	Long ton	140,089	130,599	125,875
Coke .. .. .	do.	238	41	70
Ammonium sulphate..	do.	2,308	2,897	2,580
Tar .. .. .	do.	14	35	37
Guatemala—				
Coal .. .. .	Long ton	160	(a)	(a)
Costa Rica (total imports)—				
Coal .. .. .	Long ton	583	(a)	(a)
Ammonia .. .. .	do.	27	(a)	(a)
Mexico—				
Coal .. .. .	Long ton	130,253	82,668	(a)
Tar and pitch .. .. .	do.	1,262	933	(a)
Benzol .. .. .	do.	8	6	(a)
Aniline oil, etc. .. .. .	do.	139	(a)	(a)
Salvador—				
Coal and briquettes ..	Long ton	3,851	4,356	(a)
United States—				
Anthracite .. .. .	Long ton	106,277	343,488	434,975
Bituminous coal .. .. .	do.	490,931	479,215	411,960
Coke .. .. .	do.	150,767	131,876	106,896
Ammonium sulphate .. .. .	do.	17,153	42,066	18,812
Ammonium chloride .. .. .	do.	6,374	4,921	3,282
Tar and pitch .. .. .	do.	3,726	2,404	3,472
Creosote oil .. .. .	Gallon	79,930,184	73,654,228	66,083,813
Naphthalene .. .. .	Long ton	2,944	8,896	15,628
Carbolic acid .. .. .	do.	273	437	1,240
Argentina—				
Coal .. .. .	Long ton	3,434,017	3,072,662	(a)
Coke .. .. .	do.	35,926	39,984	(a)
Ammonium sulphate .. .. .	do.	47	65	(a)
Liquid ammonia.. .. .	do.	51	30	(a)
Tar .. .. .	do.	373	277	(a)
Naphthalene .. .. .	do.	485	340	(a)
Carbolic acid .. .. .	do.	97	124	(a)
Aniline .. .. .	do.	386	439	(a)
Bolivia—				
Coal and briquettes ..	Long ton	29,839	(a)	(a)
Brazil (total imports)—				
Coal .. .. .	Long ton	1,975,900	1,919,456	2,034,696
Coke .. .. .	do.	20,488	30,140	30,854
Briquettes .. .. .	do.	183,167	197,729	222,594
Liquid ammonia.. .. .	do.	110	199	201
Tar and pitch .. .. .	do.	309	387	547

(a) Information not available.

(b) Total imports.

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

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Chile—</b>				
Coal .. .. .	Long ton	27,311	63,759	38,289
Coke .. .. .	do.	23,300	15,331	22,049
Patent fuel .. .. .	do.	10,272	6,955	10,971
Liquid ammonia .. .. .	do.	102	44	56
Ammonium chloride .. .. .	do.	162	210	(a)
Creosote, etc. .. .. .	do.	11	336	1
Naphthalene .. .. .	do.	6	9	18
Carbolic acid .. .. .	do.	2,506	2,275	540
<b>Colombia—</b>				
Coal .. .. .	Long ton	1,935	} (a)	} (a)
Tar and pitch .. .. .	do.	90		
Carbolic acid .. .. .	do.	9		
Cresol, creolin, etc. .. .. .	do.	394		
<b>French Guiana—</b>				
Coal .. .. .	Long ton	14	5	64
<b>Peru—</b>				
Coal .. .. .	Long ton	63,513	28,585	36,881
Coke .. .. .	do.	3,344	1,622	3,983
Ammonium salts .. .. .	do.	31	40	46
Liquid ammonia .. .. .	do.	68	60	47
Tar .. .. .	do.	424	362	270
Naphthalene .. .. .	do.	17	14	14
<b>Uruguay—</b>				
Coal .. .. .	Long ton	419,764	345,328	466,224
Liquid ammonia .. .. .	do.	104	40	48
<b>Venezuela—</b>				
Coal .. .. .	Long ton	12,077	13,581	(a)
Liquid ammonia .. .. .	do.	20	8	(a)
Aniline .. .. .	do.	41	53	(a)
<b>China—</b>				
Coal .. .. .	Long ton	2,318,783	2,426,648	2,281,230
Coke .. .. .	do.	5,426	6,284	4,937
Ammonium sulphate .. .. .	do.	54,391	104,452	110,557
Ammonium chloride .. .. .	do.	138	175	113
Tar and pitch .. .. .	do.	4,041	4,087	4,139

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.).</b>				
<b>Dutch East Indies—</b>				
Coal .. .. .	Long ton	124,993	114,268	(a)
Coke .. .. .	do.	14,179	6,586	(a)
Ammonium sulphate ..	do.	130,171	128,428	(a)
Ammonium chloride ..	do.	26	36	(a)
Liquid ammonia ..	do.	352	241	(a)
Tar .. .. .	do.	1,627	2,426	(a)
do. (additional) ..	Gallon	157,358	154,511	(a)
Benzol .. .. .	Long ton	65	6	(a)
Carbolineum .. .. .	do.	69	201	(a)
Carbolic acid .. .. .	do.	27	58	(a)
Creosote etc. .. .. .	do.	442	588	(a)
Naphthalene .. .. .	do.	152	148	(a)
<b>Formosa—</b>				
Coal .. .. .	Long ton	20,399	28,528	10,078
Coke .. .. .	do.	143	—	—
Ammonium sulphate ..	do.	67,170	91,725	71,266
<b>French Indo-China—</b>				
Coal .. .. .	Long ton	43,816	40,551	40,559
Coke .. .. .	do.	658	623	440
Brown coal .. .. .	do.	6	(a)	(a)
Ammonium sulphate ..	do.	92	104	332
Ammonium chloride ..	do.	24	5	28
Ammonia .. .. .	do.	21	16	(a)
Tar .. .. .	do.	7,633	9,145	10,670
Distillates .. .. .	do.	150	66	54
<b>Japan (total imports)—</b>				
Coal .. .. .	Long ton	2,660,556	2,734,831	3,203,232
Coke .. .. .	do.	4,349	5,567	5,264
Ammonium sulphate ..	do.	246,080	279,987	374,646
Ammonium chloride ..	do.	2,450	2,899	2,464
Pitch .. .. .	do.	11,492	12,211	(a)
Carbolic acid .. .. .	do.	716	643	215
Aniline oil and salt ..	do.	332	—	—
Naphthalene .. .. .	do.	1,335	1,238	1,296
Distillates .. .. .	do.	746	1,432	1,817
<b>Korea—</b>				
Coal .. .. .	Long ton	(£1,076,840)	882,472	894,285
Coke .. .. .	do.	(a)	12,705	12,505
Ammonium sulphate ..	do.	32,000	60,000	(a)

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )				
Philippine Islands—				
Coal .. .. .	Long ton	469,501	541,081	591,924
Coke .. .. .	do.	2,166	1,844	1,785
Ammonium sulphate ..	do.	22,968	22,393	26,980
Anhydrous ammonia ..	£	4,275	2,846	4,041
Carbolic acid .. ..	Long ton	5	3	5
Persia (total imports), ( <i>k</i> )—				
Coal, coke and peat ..	Long ton	3,906	4,596	701
Siam (total imports)—				
Coal .. .. .	Long ton	35,001	39,521	35,691
Coke .. .. .	do.	2,972	2,038	3,606
Syria—				
Coal .. .. .	Long ton	14,961	28,906	} 53,100
Briquettes .. .. .	do.	31,794	( <i>a</i> )	
Turkey—				
Coal, coke and lignite ..	Long ton	85,423	29,765	93,167( <i>m</i> )
Cresol and naphthalene	do.	169	160	286
Liquid ammonia and ammonium chloride	do.	182	180	113
Carbolic acid .. .. .	do.	11	18	8
New Caledonia—				
Coal .. .. .	Long ton	36,395	36,544	( <i>a</i> )
Coke .. .. .	do.	41,190	61,086	( <i>a</i> )
Iceland—				
Coal .. .. .	Long ton	128,555	144,975	} 160,387
Coke .. .. .	do.	1,780	1,130	

(*a*) Information not available.

(*k*) Years ended March 21.

(*m*) January to September only.



**COBALT**

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PRODUCTION OF COBALT

(Cwt.)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Union of South Africa (Ore)	—	—	3
Canada (h) . . . . .	7,862	8,541	8,298
Australia (metal) . . . . .	—	155	400
<b>FOREIGN COUNTRIES</b>			
Belgian Congo (metal and oxide)	7,100	9,000	13,936
Chile . . . . .	7	33	(a)
New Caledonia (ore) . . . . .	1,547	(a)	(a)

(a) Information not available.

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

## EXPORTS OF COBALT, ETC.

*(Domestic Produce)*

(Cwt.)

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Cobalt and cobalt alloys	41	40	103
Cobalt oxide .. ..	986	1,605	1,244
Canada—			
Cobalt ore ( <i>cobalt content</i> )	(£49,947)	(£108,969)	3,387
Cobalt .. .. .	3,169	2,152	2,819
Cobalt alloys .. ..	116	157	505
Cobalt salts .. ..	3,385	3,302	2,115
Australia (including re- exports)—			
Cobalt ore .. ..	326	811	1,839
<b>FOREIGN COUNTRIES</b>			
Belgium-Luxemburg E.U.—			
Cobalt salts .. ..	360	1,334	1,037
Czechoslovakia—			
Zaffre and smalt ..	4	2	4
France—			
Cobalt ore .. ..	4	421	25
Impure cobalt oxide ..	26	47	15
Other cobalt oxide, including zaffre and smalt .. .. .	75	96	140
Cobalt salts .. ..	18	18	2
Sweden—			
Cobalt oxide .. ..	1	1	—
Belgian Congo—			
Copper-cobalt alloy ..	41,330	74,800	97,220
Chile—			
Cobalt ore .. ..	59	194	—
New Caledonia—			
Cobalt ore .. ..	1,547	(a)	(a)

(a) Information not available.

## IMPORTS OF COBALT, ETC.

*(Less Re-exports)*

(Cwt.)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Cobalt and cobalt alloys	2,151	2,367	4,263
Cobalt oxide .. ..	1,107	1,934	4,788
Canada—			
Oxides of cobalt, tin and copper .. ..	2,123	2,382	2,578
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Cobalt salts .. ..	49	98	274
Czechoslovakia—			
Zaffre and smalt ..	26	20	250
France—			
Cobalt ore .. ..	1,551	16	85
Impure cobalt oxide ..	831	1,963	2,184
Other cobalt oxide, in- cluding zaffre and smalt	142	303	153
Cobalt salts .. ..	6	10	18
Italy—			
Cobalt oxide .. ..	280	500	429
Jugoslavia—			
Cobalt .. .. .	4	—	—
Poland—			
Cobalt .. .. .	2	18	(a)
Cobalt salts .. ..	65	28	89
Rumania—			
Cobalt salts .. ..	1	(a)	(a)
Sweden—			
Cobalt oxide .. ..	85	84	93
United States—			
Cobalt ore and metal ..	4,175	5,745	11,081
Cobalt oxide .. ..	3,301	3,251	4,249
Japan (total imports)—			
Cobalt oxide .. ..	980	920	1,220

(a) Information not available.

## COPPER

### PRODUCTION OF COPPER ORE

(In terms of metal)

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom ..	177	68	68
Northern Rhodesia (smelter)	3,290	5,930	5,466
Southern Rhodesia (smelter)	—	109	312
South-West Africa (a) ..	10,500	11,100	12,400
Union of South Africa ..	9,125	8,662	8,872
Canada .. .. .	62,566	90,489	110,768
Cyprus .. .. .	4,000	4,900	5,700
India (estimated) .. ..	6,000	5,600	7,900
Australia .. .. .	9,973	9,466	12,812
Papua (years ended June 30)	120	—	(a)
Total ..	106,000	136,000	164,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	2,296	2,987	2,048
Bulgaria (ore) .. .. .	10,761	10,740	30,875
Czechoslovakia .. .. .	1,518	1,599	(a)
Finland .. .. .	812	1,877	(a)
France .. .. .	242	(a)	(a)
Germany .. .. .	26,840	25,799	28,525
Italy .. .. .	1,665	809	(a)
Jugoslavia .. .. .	10,200	13,000	20,000
Norway .. .. .	12,169	17,497	18,738
Portugal (estimated) ..	3,000	2,000	4,000
Rumania (smelter) ..	212	102	141
Russia (estimated) ..	13,400	19,900	26,000
Spain .. .. .	50,000	53,000	57,000
Sweden .. .. .	771	609	(a)
Algeria .. .. .	256	—	60
Belgian Congo (smelter) ..	87,748	110,680	134,828
French Equatorial Africa	492	232	(a)
Tunis (ore) .. .. .	73	—	—
Cuba .. .. .	13,873	16,847	14,720

PRODUCTION OF COPPER ORE (*Cont.*)

Producing Country	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Mexico .. .. .	66,469	64,471	85,187
United States .. .. .	736,589	807,942	898,395
Bolivia (exports) .. .. .	8,591	8,351	7,074
Chile .. .. .	238,806	282,269	314,749
Peru .. .. .	54,199	56,052	(a)
Venezuela (estimated) .. .. .	150	—	—
Japan (smelter) .. .. .	65,520	67,155	70,604
Korea (smelter) .. .. .	988	598	538
Turkey (black copper) .. .. .	—	13	64
<b>Total ..</b>	<b>1,390,000</b>	<b>1,550,000</b>	<b>1,740,000</b>
<b>WORLD'S TOTAL</b>	<b>1,500,000</b>	<b>1,690,000</b>	<b>1,900,000</b>

(a) Information not available.

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

## METAL PRODUCTION OF COPPER

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom (estimated)	22,400	25,500	22,500
Northern Rhodesia ..	3,290	5,930	5,466
Southern Rhodesia ..	—	109	312
Canada (j) .. ..	32,230	55,746	71,508
Australia .. ..	9,564	11,858	10,874
Total ..	67,000	99,000	111,000
<b>FOREIGN COUNTRIES</b>			
Austria .. ..	3,256	3,369	3,834
Belgium .. ..	9,655	9,566	(a)
Czechoslovakia .. ..	3,240	4,167	(a)
Finland .. ..	347	369	(a)
France (c) .. ..	2,329	2,200	2,500
Germany .. ..	49,800	47,700	52,700
Italy .. ..	1,254	886	530
Jugoslavia .. ..	12,483	14,848	20,985
Norway .. ..	13	775	2,400
Rumania .. ..	212	102	141
Russia (years ended Sept. 30) .. ..	13,382	18,897	30,000
Spain .. ..	28,236	27,319	28,100
Sweden .. ..	5,320	3,342	4,673
Belgian Congo .. ..	87,748	110,680	133,398
Mexico .. ..	38,624	43,605	64,094
United States (b) .. ..	864,872	946,512	1,052,919
Chile .. ..	222,589	269,928	298,372
Peru .. ..	45,644	51,466	55,000
China (exports) .. ..	1,035	4,326	3,415
Formosa .. ..	569	(a)	(a)
Japan .. ..	65,520	67,155	70,604
Korea .. ..	988	598	538
Total ..	1,460,000	1,630,000	1,840,000
<b>WORLD'S TOTAL</b>	1,520,000	1,730,000	1,950,000

(a) Information not available.

(b) Includes some secondary.

(c) Includes some matte.

(j) Copper content of blister copper.

## EXPORTS OF COPPER, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc. . . . .	15,289	5,854	14,584
Bars, ingots, etc.—			
Electrolytic . . . . .	143	341	1,298
Other . . . . .	13,753	6,973	12,135
Scrap copper . . . . .	5,562	4,931	4,612
Plates, sheets, etc. . . . .	7,542	6,935	5,753
Rods . . . . .	1,885	2,332	1,721
Tubes . . . . .	1,784	1,990	1,802
Wire . . . . .	10,522	10,500	9,770
Sulphate. . . . .	42,401	47,857	41,574
Northern Rhodesia—			
Ore and concentrates . . . . .	—	463	213
Bars and ingots . . . . .	3,342	5,725	5,808
South-West Africa—			
Copper lead ore and matte . . . . .	46,023	56,481	65,045
Union of South Africa—			
Ore and concentrates . . . . .	7	14	75
Blister . . . . .	2,602	2,502	2,251
Bars, ingots, etc. . . . .	5,553	5,074	5,262
Canada—			
Ore, matte, etc. ( <i>Cu con-</i> <i>tent</i> ) . . . . .	32,518	34,120	38,839
Blister . . . . .	24,223	46,770	66,195
Ingots, etc. . . . .	5	—	—
Scrap copper . . . . .	2,640	4,001	5,161
Bars, sheets, tubes etc. . . . .	111	71	59
British India—			
Ore . . . . .	2	10	—
Matte, etc. . . . .	14,096	11,547	10,509
British Malaya (including re-exports)—			
Ingots, bars, sheets, etc. . . . .	70	55	84

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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE (Cont.)			
Cyprus—			
Cupreous pyrites ..	208,122	240,060	291,100
Precipitate .. ..	10	10	54
Australia (including re-exports)—			
Ore, etc. ( <i>Cu content</i> ) ..	728	1,988	2,130
Matte .. .. .	3,656	4,056	3,801
Blocks and ingots ..	809	4,189	3,064
Bars, sheets, wire, etc.	134	36	51
Papua ( <i>d</i> )—			
Copper and copper ore ..	582	16	8
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	368	332	241
Rough copper and scrap	2,007	2,278	2,885
Sheets, wire, etc. ..	2,819	2,639	2,763
Sulphate.. .. .	340	131	35
Belgium-Luxemburg E.U.—			
Ore .. .. .	65	7,230	9,738
Rough copper and scrap	11,955	31,143	35,321
Sheets, wire, etc. ..	2,969	4,865	9,649
Sulphate.. .. .	11,860	15,587	18,254
Bulgaria—			
Ore .. .. .	1,808	799	1,505
Czechoslovakia—			
Ore .. .. .	5,071	6,116	4,601
Crude, refined and scrap	3,547	3,768	4,789
Sheets, rods, wire, etc.	550	476	279
Denmark—			
Bars, sheets, wire, etc. . .	207	20	( <i>a</i> )
Estonia—			
Scrap .. .. .	98	119	179

(*a*) Information not available.

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



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

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Finland—</b>			
Ore .. .. .	8,895	22,777	48,018
Rough copper and scrap	425	294	537
<b>France—</b>			
Ore, matte, etc. . . . .	693	1,783	4,766
Precipitate, ingots, etc.,	1,641	1,617	1,843
Scrap .. .. .	4,962	4,183	5,365
Bars, sheets and wire ..	20,194	22,930	25,113
Sulphate .. .. .	5,644	4,823	3,672
<b>Germany—</b>			
Ore, matte, etc. ..	3,903	1,110	8,283
Rough copper .. .. .	18,106	21,452	31,333
Coin and scrap .. .. .	1,196	3,225	3,304
Bars, sheets, wire, etc. . .	29,839	27,870	30,280
<b>Hungary—</b>			
Rough copper .. .. .	35	84	96
Bars, sheets, wire, etc. . .	976	1,227	1,688
Sulphate .. .. .	12	339	122
<b>Italy—</b>			
Cupreous pyrites ..	358	—	—
Other ore .. .. .	1,697	2,134	1,575
Ingots, scrap and alloyed	2,898	2,543	1,744
Bars, sheets, wire, etc., and alloyed .. .. .	159	506	212
Sulphate.. .. .	10,655	9,693	5,110
<b>Jugoslavia—</b>			
Ore .. .. .	11,611	16	10
Ingots, scrap and wire ..	13,212	14,825	18,961
Sulphate .. .. .	270	—	31
<b>Latvia—</b>			
Bars and scrap.. .. .	—	49	62
<b>Netherlands—</b>			
Ore .. .. .	—	12	1
Ingots, bars and tubes..	232	425	417
Scrap .. .. .	1,142	2,358	2,147
Sheets, cable and wire ..	624	974	1,110
Sulphate .. .. .	42	7	12
<b>Norway—</b>			
Cupreous pyrites ..	417,554	430,910	445,143
Other ore .. .. .	5,889	6,170	14,993
Burnt cupreous pyrites	46,228	45,266	42,252

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Norway (Cont.)—			
Refined copper .. ..	—	504	1,871
Scrap .. ..	876	1,046	1,369
Plates, bolts, wire, etc., including brass ..	261	301	211
Poland—			
Precipitate and scrap ..	61	2	45
Pigs, bars and ingots ..	51	1	76
Sheets, tubes and wire ..	—	5	22
Sulphate.. .. .	5	22	(a)
Portugal—			
Cupreous pyrites, etc. ..	158,013	144,427	2,438
Precipitate .. ..	482	584	93
Sulphate .. ..	67	109	170
Rumania—			
Ore .. .. .	9	46	(a)
Rough and scrap ..	1,135	201	(a)
Russia (years ended Sept. 30)—			
Copper .. .. .	1,692	8,402	41
Spain (including re-exports)—			
Ore—			
Not more than 2½ per cent. copper ..	877,146	845,520	895,721
More than 2½ per cent. copper .. ..	—	29	1,773
Precipitate and scrap (i)	16,330	14,873	15,352
Ingots (i) .. ..	12,687	7,522	7,288
Sulphate.. .. .	33	49	14
Sweden—			
Ore .. .. .	1,982	2,699	2,428
Rough copper .. ..	3,635	1,941	3,289
Sheets, tubes, wire, etc.	2,622	4,468	4,549
Switzerland—			
Ore, filings and turnings	2,179	2,399	2,775
Bars, ingots, etc. (i) ..	650	406	390
Scrap (i) .. ..	624	1,146	804
Sheets, tubes, wire, etc. (i)	4,827	6,865	8,073

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Ore matte, etc. .. ..	1,616	5,870	286
Bars, sheets and wire ..	21	7	(a)
Scrap .. .. .	630	632	638
Angola—			
Copper .. .. .	4	2	(a)
Belgian Congo—			
Ore .. .. .	2,591	372	9
Ingots .. .. .	85,505	104,348	120,678
Copper-cobalt alloy ..	2,067	3,750	4,361
French Equatorial Africa—			
Ore .. .. .	870	578	433
Morocco—			
Ingots and scrap ..	215	220	232
Tunis (including re-exports)—			
Ore .. .. .	—	49	2
Cuba—			
Ore .. .. .	44,363	69,862	(a)
Mexico—			
Ores, concentrates, etc. (Cu content) .. ..	19,178	20,846	(a)
Copper sheets .. ..	38,627	43,625	(a)
United States—			
Unrefined copper (Cu content) .. ..	3,230	1,711	2,491
Refined ingots, etc. ..	411,815	423,873	367,166
Scrap .. .. .	20,302	24,762	16,802
Sheets, rods, wire, etc. ..	35,300	43,123	48,092
Sulphate .. .. .	2,771	3,869	2,866
Argentina—			
Ore .. .. .	396	87	(a)
Bars .. .. .	80	—	(a)
Bolivia—			
Ore, etc. (Cu content) ..	8,592	8,352	7,074

(a) Information not available.

(i) Including alloys

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Chile—			
Ore and concentrates ..	98,730	68,932	114,677
Matte .. .. .	65	—	—
Precipitate .. ..	229	21	41
Ingots .. .. .	222,465	267,641	303,436
Peru—			
Ores ( <i>Cu content</i> ) ..	1,213	598	776
Mattes, etc. do. ..	103	26	64
Bars .. do. ..	49,663	50,515	51,992
Precipitate do... ..	61	60	52
Venezuela—			
Copper .. .. .	386	—	—
China—			
Ingots and blocks ..	1,035	4,326	3,415
Dutch East Indies—			
Scrap .. .. .	1,055	787	(a)
Formosa—			
Copper .. .. .	6	—	(a)
Japan—			
Ingots and blocks ..	73	115	2,100
Plates, sheets and wire..	2,488	2,559	3,553
Sulphate.. .. .	55	(a)	(a)
Korea—			
Copper .. .. .	(a)	571	1,002
Turkey—			
Ingots, bars, sheets and wire, including alloys	30	124	102
Sulphate.. .. .	11	—	3
Philippine Islands—			
Scrap .. .. .	386	324	444

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc. ..	39,832	45,809	38,415
Bars, ingots, etc. ..			
Electrolytic ..	90,952	104,796	102,183
Other .. ..	39,280	39,208	45,421
Scrap copper .. ..	1,974	2,543	3,221
Plates, sheets, etc. ..	1,677	1,993	3,201
Rods .. ..	11,642	14,683	14,921
Tubes .. ..	1,881	2,074	2,031
Wire .. ..	4,736	4,312	6,889
Sulphate.. ..	302	429	223
Irish Free State—			
Sheets, wire, tubes, etc.	1,735	1,413	1,222
Sulphate .. ..	3,483	3,810	3,648
Kenya and Uganda—			
Sheets and wire ..	106	72	118
Mauritius (total imports)—			
Bars, sheets, scrap, etc.	42	36	21
Northern Rhodesia—			
Bars, sheets, etc. ..	2	3	7
Southern Rhodesia—			
Ingots, sheets, scrap, etc.	309	426	2
South-West Africa—			
Bars, sheets, pipes, etc. ..	12	10	222
Tanganyika Territory—			
Sheets and wire ..	159	81	99
Union of South Africa—			
Bars, ingots and rods ..	347	60	257
Plates, sheets and tubes	747	671	444
Canada—			
Blocks, pigs and ingots.	1,694	3,519	5,395
Scrap copper .. ..	2,597	2,503	2,214
Bars, sheets, wire, etc. ..	14,068	19,002	27,657
Sulphate .. ..	2,097	2,397	1,951
West Indies (Barbados)—			
Bars and sheets .. ..	(£902)	(£466)	(£104)
British Honduras—			
Sheets and rods .. ..	(£792)	(£826)	(a)

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>			
British India (total imports)—			
Ore .. .. .	512	7	5,597
Scrap .. .. .	218	664	245
Ingots, cakes, blocks, etc.	1,454	1,762	851
Sheets, tubes, wire, etc.	10,108	11,224	6,765
Sulphate .. .. .	801	897	1,309
British Malaya (total imports)—			
Bars, ingots, sheets, etc.	933	1,161	910
Cyprus—			
Bars, sheets, etc. ..	44	52	84
Australia—			
Ore .. .. .	17	5	2
Matte ( <i>Cu content</i> ) ..	11	2	5
Blocks, ingots .. ..	357	60	99
Bars, sheets, wire, etc...	2,970	1,947	1,807
New Zealand—			
Bars, sheets, pipes, etc.	620	650	682
Wire .. .. .	(£193,091)	(£170,059)	(£133,134)
Sulphate .. .. .	121	126	167
<b>FOREIGN COUNTRIES</b>			
Austria—			
Ore .. .. .	4,394	4,458	3,323
Rough copper .. ..	14,181	15,619	14,975
Scrap .. .. .	916	1,678	1,459
Sheets, wire, etc. ..	280	241	166
Sulphate.. .. .	268	22	3
Belgium-Luxemburg E.U.—			
Ore .. .. .	47,924	59,529	59,739
Rough copper and scrap	36,206	73,667	94,113
Sheets, wire, etc. ..	4,135	5,061	5,700
Sulphate.. .. .	45	111	40
Bulgaria—			
Bars, sheets, etc. ..	883	887	1,073
Sulphate .. .. .	3,071	3,480	2,589

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

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Czechoslovakia—</b>			
Ore .. .. .	20	83	—
Unwrought and scrap ..	17,375	22,347	18,702
Sheets, tubes, wire, etc.	360	596	619
<b>Denmark—</b>			
Rough and alloys ..	1,209	1,476	1,267
Bars, pipes, wire, etc. ..	3,330	3,795	(a)
<b>Estonia—</b>			
Ingots, sheets, wire, etc.	172	337	227
Sulphate.. .. .	3	5	6
<b>Finland—</b>			
Rough and scrap ..	44	76	87
Sheets, tubes and wire..	3,492	3,043	2,955
Sulphate.. .. .	31	32	43
<b>France—</b>			
Ore, matte, etc... ..	7,256	3,969	826
Precipitate, ingots, etc.,	81,077	124,078	136,540
Scrap .. .. .	6,216	20,776	21,232
Bars, sheets and wire ..	3,740	5,450	10,473
Sulphate .. .. .	21,050	25,859	21,933
<b>Germany—</b>			
Ore, matte, etc. ..	254,805	358,496	431,170
Rough copper .. ..	227,198	223,398	191,556
Coin and scrap .. ..	25,407	25,626	25,268
Bars, sheets, wire, etc... ..	1,392	2,187	2,259
<b>Greece—</b>			
Rough copper and alloys	64	81	45
Sheets, tubes, alloys, etc.	1,181	1,144	1,267
Sulphate.. .. .	3,062	2,501	3,355
<b>Hungary—</b>			
Ore .. .. .	431	698	(a)
Rough copper .. ..	11,173	10,904	8,908
Bars, sheets, wire, etc... ..	286	427	521
Sulphate .. .. .	1,676	356	112
<b>Italy—</b>			
Cupreous pyrites ..	5,258	10,313	—
Other ore .. .. .	37	78	105
Ingots, scrap and alloyed	65,313	77,692	55,330
Bars, sheets, wire, etc., and alloyed .. .. .	3,895	3,620	3,197
Sulphate.. .. .	12,597	15,347	8,955

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
Jugoslavia—			
Crude, scrap, coin, etc...	620	824	460
Bars, sheets, wire, etc...	1,968	1,982	2,194
Sulphate .. ..	7,084	8,646	4,550
Latvia—			
Ingots, bars and scrap ..	105	79	78
Sheets, tubes and wire..		95	162
Netherlands—			
Ingots, bars and tubes..	5,794	7,526	7,110
Scrap .. .. .	224	305	556
Sheets, cable and wire ..	3,410	4,153	5,671
Sulphate .. ..	1,279	1,401	971
Norway—			
Rough copper and alloys	787	1,007	2,058
Poland—			
Precipitate and scrap ..	367	887	452
Pigs, bars and ingots ..	4,735	8,883	9,021
Sheets, tubes and wire ..	2,825	2,196	1,359
Sulphate.. .. .	27	6	(a)
Portugal—			
Copper and alloys ..	1,852	2,429	2,428
Sulphate.. .. .	2,791	3,885	3,843
Rumania—			
Ore .. .. .	151	(a)	(a)
Rough and scrap ..	372	(a)	(a)
Sheets, wire, etc. ..	2,166	(a)	(a)
Sulphate .. .. .	4,357	(a)	(a)
Russia (years ended Sept. 30)			
Ingots, sheets, etc. ..	18,180	27,352	17,279
Spain (total imports)—			
Precipitate and scrap (k)	2,687	3,205	2,791
Ingots (k) .. ..	1,828	1,909	1,059
Sheets, tubes, wire, etc. (k)	1,444	1,212	1,022
Sulphate .. .. .	667	493	495
Sweden—			
Rough copper .. ..	16,075	19,864	24,706
Sheets, rods, wire, etc.	689	540	383
Switzerland—			
Ore, filings and turnings	2,396	2,186	2,934
Bars, ingots, etc. (k) ..	13,312	15,754	13,779
Scrap (k) .. .. .	895	664	1,049
Sheets, tubes, wire, etc. (k) .. .. .	4,940	6,158	6,045



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

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
Algeria—			
Scrap .. .. .	113	89	59
Bars, sheets, wire, etc. . .	1,535	1,288	1,943
Precipitate, etc. . .	8	(a)	(a)
Sulphate .. .. .	7,257	7,503	7,258
Angola—			
Bars, sheets, wire, etc. . .	22	15	(a)
Belgian Congo—			
Bars, sheets and wire ..	583	620	298
Egypt—			
Bars, sheets, tubes, wire, scrap, etc., including brass .. .. .	3,450	2,724	2,159
Morocco—			
Sheets and wire (k) ..	656	520	1,136
Mozambique—			
Bars, sheets and wire ..	8	42	72
Réunion—			
Copper .. .. .	1	7	5
Togoland—			
Ingots, bars and wire, including alloys ..	13	14	—
Tunis—			
Bars, ingots, scrap, etc. (k)	89	46	64
Sheets and wire (k) ..	258	268	453
Sulphate .. .. .	251	191	354
Costa Rica (total imports)—			
Sheets and wire ..	82	(a)	(a)
Cuba—			
Ingots and bars.. ..	(k) 116	103	(a)
Plates and wire .. ..	(k) 3,006	1,296	(a)
Mexico—			
Ingots .. .. .	614	(a)	(a)
Bars, sheets, alloys, etc.	144	(a)	(a)
Sulphate.. .. .	936	1,018	(a)
Salvador—			
Copper .. .. .	2	4	(a)

(a) Information not available.

(k) Including alloys.

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

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
United States—			
Cu content of—			
Ore .. .. .	44,343	47,407	55,633
Concentrates .. .. .	30,443	17,622	23,986
Matte, precipitate, etc.	622	1,179	939
Unrefined .. .. .	195,801	242,496	288,467
Refined .. .. .	46,107	37,826	59,828
Scrap .. .. .	3,565	4,747	6,071
Sulphate .. .. .	883	1,612	2,406
Argentina—			
Ingots, sheets and bronze	2,005	1,730	(a)
Sulphate .. .. .	2,439	3,325	(a)
Brazil (total imports)—			
Plates, sheets, alloys, etc.	1,456	2,653	2,335
Rough, scrap, alloys, etc.	3,585	3,951	6,241
Tubes, pipes and wire ..	1,225	658	677
Sulphate.. .. .	719	1,639	1,313
Chile—			
Ore .. .. .	—	45	27
Bars, sheets and wire ..	368	392	212
Sulphate .. .. .	94	45	28
Colombia—			
Ingots, plates, etc. ..	306	(a)	(a)
Wire .. .. .	693	(a)	(a)
Peru—			
Bars, sheets, etc. (k) ..	120	99	98
Sulphate.. .. .	139	118	438
Uruguay—			
Sulphate .. .. .	448	(a)	(a)
Venezuela—			
Unwrought .. .. .	106	99	(a)
China—			
Ingots and blocks ..	5,256	4,151	3,422
Bars, sheets, wire, etc..	1,850	1,952	2,634
Dutch East Indies—			
Crude copper .. .. .	198	274	(a)
Sheets, wire and alloys ..	865	1,029	(a)
Sulphate .. .. .	686	529	(a)

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

Importing Country and Description.	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Formosa—			
Copper .. .. .	5	—	(a)
French Indo-China—			
Sheets, wire, etc. ..	487	532	731
Scrap .. .. .	747	563	493
Sulphate .. .. .	12	(a)	(a)
Japan (total imports)—			
Ingots and blocks ..	9,636	14,433	4,860
Korea—			
Ingots .. .. .	(a)	130	136
Philippine Islands—			
Sheets and wire ..	471	277	312
Siam (total imports)—			
Rough copper .. ..	176	100	154
Syria—			
Sheets and tubes ..	947	(a)	(a)
Turkey—			
Ingots, bars, sheets, wire, and alloys .. .. .	1,513	1,889	1,339
Sulphate .. .. .	318	592	186

(a) Information not available.

(k) Including brass and bronze.

## DIAMONDS

## PRODUCTION OF DIAMONDS

(Metric carats)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Gold Coast (c) .. ..	460,959	698,826	660,536
Southern Rhodesia .. ..	126	54	232
South-West Africa .. ..	723,877	503,142	597,189
Tanganyika Territory .. ..	18,766	24,681	23,300
Union of South Africa .. ..	4,708,038	4,372,857	3,661,212
British Guiana .. ..	178,402	135,993	125,799
India .. ..	113	(b)	1,628
Australia .. ..	199	28	119
<b>Total ..</b>	<b>6,090,000</b>	<b>5,736,000</b>	<b>5,070,000</b>
<b>FOREIGN COUNTRIES</b>			
Angola .. ..	200,809	237,511	311,903
Belgian Congo .. ..	1,041,544	1,647,700	1,907,765
Brazil (estimated) .. ..	50,000	50,000	50,000
Dutch East Indies .. ..	250	236	(a)
<b>Total ..</b>	<b>1,290,000</b>	<b>1,940,000</b>	<b>2,270,000</b>
<b>WORLD'S TOTAL</b>	<b>7,380,000</b>	<b>7,676,000</b>	<b>7,340,000</b>

(a) Information not available.

(b) Quantity not reported. Value was £3,875 in 1928 compared with £3,354 in 1927.

(c) Exports.

## EXPORTS OF DIAMONDS

*(Domestic Produce)*

Exporting Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE				
Gold Coast .. .. .	Carat	460,959	698,826	660,536
South-West Africa (uncut) ..	do.	723,862	503,143	597,059
Tanganyika Territory ..	do.	18,095	24,598	23,290
Union of South Africa (uncut)	do.	4,274,206	3,541,289	2,776,699
British Guiana.. .. .	do.	185,466	136,490	128,115
FOREIGN COUNTRIES				
Belgium-Luxemburg E. U.— Precious stones, chiefly diamonds.. .. .	£	381,584	706,039	924,309
do. cut or polished ..	£	8,945,520	12,088,053	13,220,000
Czechoslovakia— Glaziers' diamonds ..	Carat	415,000	735,000	790,000
Netherlands— Cut and polished .. ..	£	—	—	2,500
Angola—	Carat	180,334	232,256	(a)
Belgian Congo— Precious stones, chiefly diamonds.. .. .	Carat	1,111,053	1,500,278	1,895,318
Brazil— Diamonds .. .. .	£	83,366	101,098	56,105
Carbons .. .. .	£	247,879	268,548	169,708

(a) Information not available.

## IMPORTS OF DIAMONDS

*(Less Re-exports)*

Importing Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE				
United Kingdom—	Carat	3,189,512	2,851,829	2,005,718
Union of South Africa—				
Cut and polished .. ..	Carat	1,324	629	—
Canada—				
Unset .. .. .	£	566,698	698,480	742,659
Dust, bort, etc. .. ..	£	287,268	468,237	557,385
British Guiana .. .. .	Carat	—	—	74
British India (b) .. .. .	£	468,600	654,259	654,413
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Precious stones, chiefly diamonds .. .. .	£	5,577,702	8,595,105	8,823,085
Czechoslovakia—				
Glaziers' diamonds .. ..	Carat	605,000	520,000	460,000
Netherlands—				
Uncut .. .. .	£	17,508	39,000	26,100
Cut and polished .. .. .	£	99	274	—
Russia (years ended Sept. 30.)				
Industrial diamonds .. ..	Carat	(a)	155,000	110,000
United States—				
Uncut (b) .. .. .	Carat	237,095	291,302	354,415
Cut and polished (b) .. ..	do.	445,571	440,437	416,992
Glaziers' diamonds (b) .. ..	do.	34,645	38,342	46,901
Dust and bort .. .. .	£	8,794	6,407	18,591
Chile—				
Glaziers' diamonds .. ..	£	136	266	—
Peru—				
Glaziers' diamonds .. ..	£	94	55	161
Dutch East Indies—				
Uncut .. .. .	Carat	20	20	(a)
Cut and polished .. .. .	do.	85	50	(a)
Philippine Islands—	Carat	22,795	24,290	23,613

(a) Information not available.

(b) Total imports.

## DIATOMACEOUS EARTH

PRODUCTION OF DIATOMACEOUS EARTH  
(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
Northern Ireland .. ..	3,373	4,244	4,207
Canada .. .. .	237	329	383
Australia .. .. .	1,210	1,360	1,107
FOREIGN COUNTRIES			
Denmark (estimated) ..	32,200	35,000	44,000
France .. .. .	6,000	(a)	(a)
Germany (exports) ..	5,926	6,597	8,564
Hungary (exports) ..	1,769	3,491	3,726
Italy .. .. .	700	1,161	(a)
Norway (exports) ..	79	83	10
Portugal .. .. .	246	30	59
Russia (years ended Sept.30)	5,105	(a)	(a)
Spain .. .. .	352	246	(a)
Sweden .. .. .	612	710	(a)
Algeria .. .. .	8,000	9,000	10,000
United States .. ..	(b)	(b)	(b)

(a) Information not available.

(b) Not available for publication. Production during 1926 was 77,791 tons.

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

Exporting Country	1927	1928	1929
BRITISH EMPIRE			
Union of South Africa ..	8	—	—
Canada (including other natural abrasives) ..	246	262	370
FOREIGN COUNTRIES			
Denmark .. .. .			
Moler .. .. .	16,210	23,437	31,874
Moler bricks .. ..	(a)	5,916	6,093
France .. .. .	2,132	2,096	1,596
Germany .. .. .	5,926	6,597	8,564
Hungary .. .. .	1,769	3,491	3,726
Italy—			
Crude .. .. .	284	329	385
Calcined.. .. .	70	11	24
Norway—			
Calcined .. .. .	79	83	10
Poland .. .. .	—	23	(a)
Sweden .. .. .	111	249	151
Algeria .. .. .	9,391	10,008	11,549

(a) Information not available.

## IMPORTS OF DIATOMACEOUS EARTH

*(Less Re-exports)*

(Long tons)

Importing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. .. .	6,509	7,970	10,819
Union of South Africa .. .	65	8	49
Canada .. .. .	(a)	(b) 239	1,065
FOREIGN COUNTRIES			
Estonia .. .. .	(m)55	(m)33	49
Finland .. .. .	475	757	708
France .. .. .	3,887	3,007	4,193
Germany .. .. .	430	326	1,129
Hungary .. .. .	206	483	465
Italy—			
Crude .. .. .	171	332	358
Calcined.. .. .	158	278	81
Jugoslavia .. .. .	293	682	410
Latvia .. .. .	151	193	155
Norway .. .. .	35	4	34
Poland .. .. .	1,656	2,390	(a)
Russia (years ended Sept. 30)	545	283	13
Sweden .. .. .	10,807	6,671	13,042
United States (including tripoli and rottenstone)	1,195	2,328	(a)
Colombia (do.)	115	(a)	(a)
Peru .. .. .	77	202	291

(a) Information not available.

(b) Nine months only, April to December.

(m) Including manganese ore.



**FELSPAR**

PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
China stone .. ..	63,612	61,579	64,558
Union of South Africa ..	29	29	—
Canada .. .. .	26,651	28,479	33,506
Australia (including china stone) .. .. .	108	161	78
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia (estimated)	30,000	30,000	30,000
Finland .. .. .	643	700	(a)
France .. .. .	15,000	(a)	(a)
Germany (Bavaria only)..	7,204	6,132	7,574
Italy .. .. .	3,990	4,882	(a)
Norway (exports) .. ..	27,213	23,894	26,104
Rumania (i) .. .. .	1,912	2,790	2,440
Russia (years ended Sept. 30) .. .. .	19,019	(a)	(a)
Sweden .. .. .	30,152	39,290	(a)
United States (sales) ..	202,497	210,811	197,699
Argentina .. .. .	183	403	(a)

(a) Information not available.

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

EXPORTS OF FELSPAR  
(Domestic Produce)  
(Long tons)

Exporting Country	1927	1928	1929
BRITISH EMPIRE			
Canada .. .. .	25,579	25,090	26,693
FOREIGN COUNTRIES			
Austria .. .. .	15	82	147
Belgium-Luxemburg E. U.	216	264	442
Czechoslovakia .. ..	9,344	10,343	8,984
Finland .. .. .	544	709	452
Germany .. .. .	22,904	21,650	25,346
Netherlands .. .. .	3	1,176	1,900
Norway—			
Crude .. .. .	22,602	17,999	19,344
Ground .. .. .	4,611	5,895	6,760
Poland .. .. .	—	46	(a)
Sweden .. .. .	31,099	34,294	35,756

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

Importing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom (f)—			
Exports from Sweden ..	5,079	2,607	7,738
Exports from Norway ..	6,355	4,615	(a)
Canada .. .. .	2,715	2,831	3,531
FOREIGN COUNTRIES			
Austria .. .. .	1,665	2,651	1,879
Belgium-Luxemburg E. U.	10,087	7,729	4,680
Czechoslovakia .. ..	4,164	3,805	3,249
Denmark .. .. .	781	778	(a)
Finland .. .. .	41	317	268
Germany .. .. .	44,562	41,792	45,711
Latvia .. .. .	39	26	325
Netherlands .. .. .	2,123	5,093	3,617
Poland .. .. .	5,943	6,953	(a)
Sweden .. .. .	190	16	124
United States .. .. .	27,422	27,857	29,930

(a) Information not available.

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

**FLUORSPAR****PRODUCTION OF FLUORSPAR**

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	39,724	46,862	41,762
South West Africa .. ..	979	858	296
Union of South Africa (shipments) .. ..	7,462	5,494	2,672
Canada .. .. .	—	—	15,955
Australia .. .. .	1,033	1,126	686
<b>FOREIGN COUNTRIES</b>			
France .. .. .	42,500	44,000	54,000
Germany—			
Bavaria .. .. .	50,196	47,785	} 87,116
Prussia .. .. .	36,029	36,775	
Saxony .. .. .	21,679	16,163	
Italy .. .. .	5,489	4,449	5,400
Russia (years ended Sept. 30)	827	(a)	(a)
Spain .. .. .	745	2,049	(a)
Mexico .. .. .	922	(a)	(a)
United States (shipments)	100,488	125,438	130,749
Korea .. .. .	(a)	935	1,447

(a) Information not available.

**EXPORTS OF FLUORSPAR***(Domestic Produce)*

(Long tons)

Exporting Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	17,293	19,196	8,839
South West Africa .. ..	1,059	115	78
Union of South Africa .. ..	4,228	4,110	3,911
<b>FOREIGN COUNTRIES</b>			
Belgium-Luxemburg E. U.	81	186	226
Germany (including reparations) .. .. .	55,501	48,048	50,545

## IMPORTS OF FLUORSPAR

*(Less Re-exports)*

(Long tons)

Importing Country	1927	1928	1929
BRITISH EMPIRE			
Canada .. .. .	4,073	12,823	10,796
FOREIGN COUNTRIES			
Austria .. .. .	2,928	3,924	5,114
Belgium-Luxemburg E. U.	2,421	1,325	1,167
Denmark .. .. .	765	819	768
Germany .. .. .	705	939	171
Jugoslavia .. .. .	613	800	889
Norway .. .. .	1,139	1,312	2,311
Sweden .. .. .	1,812	1,938	2,526
United States .. .. .	63,853	42,128	48,522

## FULLER'S EARTH

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

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	Not available for publication.		
India .. .. .	2,718	3,394	24,874
<b>FOREIGN COUNTRIES</b>			
United States (sales) ..	236,141	256,261	282,128
Turkey .. .. .	7,161	(a)	(a)

### EXPORTS OF FULLER'S EARTH.

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

### IMPORTS OF FULLER'S EARTH

(Less Re-exports)

(Long tons)

Importing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Union of South Africa ..	71	78	91
Canada.. .. .	(£15,342)	(£17,791)	(£17,891)
Ceylon .. .. .	192	128	154
Australia .. .. .	200	166	203
<b>FOREIGN COUNTRIES</b>			
Egypt .. .. .	142	215	263
United States—			
Crude .. .. .	491	316	543
Prepared .. .. .	6,277	6,463	6,870
Philippine Islands .. ..	1,453	1,377	2,471

(a) Information not available.

## GOLD

## PRODUCTION OF GOLD ORE

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

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. .. .	—	119	12
Anglo-Egyptian Sudan (exports of bullion) ..	7,126	5,845	2,515
Bechuanaland Protectorate .. .. .	3,807	2,063	1,686
Gold Coast .. .. .	171,585	157,815	217,806
Kenya .. .. .	655	707	845
Nigeria .. .. .	22	86	192
Northern Rhodesia ..	350	602	699
Southern Rhodesia ..	581,438	576,112	560,813
South-West Africa ..	984	541	435
Swaziland .. .. .	1,135	347	90
Tanganyika Territory ..	9,546	12,813	9,071
Union of South Africa ..	10,122,491	10,354,264	10,412,326
Canada .. .. .	1,852,785	1,890,592	1,928,308
British Guiana .. .. .	5,932	5,325	6,200
Federated Malay States (i)	11,758	18,693	26,782
India .. .. .	384,200	376,000	363,800
Australia .. .. .	508,330	457,683	427,074
New Guinea (years ended June 30) .. .. .	46,000	60,000	44,000
New Zealand (l) .. .. .	125,276	114,481	112,542
Papua (years ended June 30) .. .. .	6,147	1,647	2,228
Total ..	13,800,000	14,000,000	14,100,000
FOREIGN COUNTRIES			
Austria .. .. .	155	—	—
Czechoslovakia .. .. .	9,743	8,381	(a)
France .. .. .	55,491	(a)	54,366
Germany .. .. .	5,796	5,432	5,823
Italy .. .. .	1,839	2,299	1,511
Jugoslavia .. .. .	12,400	14,100	(a)
Rumania .. .. .	64,493	58,159	71,148

PRODUCTION OF GOLD ORE (*Cont.*)

Producing Country	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Russia (years ended Sept. 30) .. .. .	725,098	(a)	(a)
Sweden .. .. .	24,884	28,935	(a)
Abyssinia .. .. .	21,605	9,131	—
Belgian Congo .. .. .	137,152	138,631	172,832
Egypt .. .. .	61	—	—
French West Africa .. .. .	9,167	(a)	(a)
Madagascar .. .. .	6,762	6,269	(a)
Portuguese East Africa .. .. .	9,521	4,239	449
Mexico .. .. .	781,181	699,102	651,873
United States .. .. .	2,107,002	2,144,720	2,056,629
Central America (estimated)	121,000	121,000	121,000
Argentina (estimated) .. .. .	1,000	1,000	1,000
Bolivia .. .. .	241	506	665
Brazil .. .. .	100,000	100,000	100,000
Chile .. .. .	31,365	30,802	(a)
Colombia .. .. .	85,164	66,883	76,657
Dutch Guiana (crude gold)	7,716	5,483	3,560
Ecuador .. .. .	64,000	74,600	(a)
French Guiana .. .. .	48,360	45,460	(a)
Peru .. .. .	92,279	62,177	(a)
Venezuela .. .. .	43,174	46,107	46,477
China (estimated) .. .. .	100,000	100,000	100,000
Dutch East Indies .. .. .	112,946	110,255	(a)
Formosa .. .. .	14,696	(a)	(a)
French Indo-China .. .. .	320	257	(a)
Japan .. .. .	308,864	334,053	315,731
Korea (estimated) .. .. .	172,000	140,000	160,000
Philippine Islands .. .. .	81,571	88,531	151,757
Turkey .. .. .	950	(a)	(a)
Total .. .. .	5,400,000	5,300,000	5,300,000
<b>WORLD'S TOTAL</b>	<b>19,200,000</b>	<b>19,300,000</b>	<b>19,400,000</b>

(a) Information not available.

(i) Quantity placed on the market.

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

## EXPORTS OF GOLD

*(Domestic Produce)**(In terms of metal)*

(Troy ounces)

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Bullion, refined (including re-exports)	5,411,000	13,233,000	18,004,000
Coin (including re-exports)—	1,313,000	934,000	238,000
<b>Anglo-Egyptian Sudan—</b>			
Bullion .. .. .	7,300	5,800	2,500
<b>Gold Coast—</b>			
Bullion .. .. .	171,000	161,000	205,000
<b>Kenya and Uganda—</b>			
Bullion .. .. .	580	1,900	900
<b>Northern Rhodesia—</b>			
Bullion .. .. .	400	430	800
<b>Southern Rhodesia—</b>			
Concentrates .. ..	220	350	430
Bullion .. .. .	571,000	557,493	546,000
Antimony ore (gold content) .. ..	13,000	13,000	17,000
<b>South-West Africa—</b>			
Bullion .. .. .	330	280	280
<b>Tanganyika Territory—</b>			
Bullion .. .. .	8,500	13,400	9,200
<b>Union of South Africa—</b>			
Concentrates, etc. ..	1,300	650	160
Bullion .. .. .	6,448,000	5,760,000	8,130,000
Lead bars (gold content)	140	—	1,400
Coin .. .. .	3,517,000	3,968,000	2,263,000
<b>Canada—</b>			
Bullion .. .. .	243,000	2,364,000	783,000
Coin .. .. .	50	—	1
<b>British Guiana—</b>			
Bullion .. .. .	4,900	3,700	4,90



EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>			
British Borneo—			
Bullion .. .. .	—	—	1,000
British India (including re- exports)—			
Bullion .. .. .	240	6	70
Coin .. .. .	4,400	5,000	2,100
British Malaya (including re-exports)—			
Bullion .. .. .	97,000	117,000	93,000
Coin .. .. .	54,000	50,000	44,000
Australia (years ended June 30)—			
Ores, etc. .. .. .	850	680	860
Bullion .. .. .	143,000	143,000	10,000
Coin .. .. .	2,322,000	474,000	629,000
New Zealand—			
Concentrates, sweepings, etc. .. .. .	1,200	1,000	450
Bullion .. .. .	125,000	114,000	113,000
New Guinea (years ended June 30)—			
Bullion .. .. .	46,000	60,000	42,000
Papua (years ended June 30)—			
Bullion .. .. .	7,000	1,700	2,600
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. .. .	50,000	46,000	51,000
Coin .. .. .	12,000	12,000	12,000
Drawn and rolled ..	15,000	22,000	25,000

(a) Information not available.

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Belgium-Luxemburg E.U.			
Bullion, etc. .. ..	5,000	10,000	10,000
Czechoslovakia—			
Bullion .. .. .	7,000	5,000	7,000
Coin .. .. .	300	200	400
France—			
Bullion and scrap ..	1,000,000	49,000	137,000
Coin .. .. .	25,000	22,000	24,000
Drawn or rolled gold ..	23,000	48,000	31,000
Germany—			
Bullion (including al- loyed) .. .. .	100,000	35,000	10,927,000
Coin .. .. .	1,400	3,000	3,500
Hungary—			
Bullion .. .. .	2,000	—	400
Italy—			
Bullion, etc. .. ..	2,000	2,000	2,000
Coin .. .. .	6,000	200	100
Netherlands—			
Bullion, etc. .. ..	319,000	5,000	5,000
Coin .. .. .	514,000	85,000	837,000
Poland—			
Bullion, etc. .. ..	60	40	570
Sweden—			
Bullion .. .. .	127,000	3,000	2,000
Coin .. .. .	27,000	41,000	35,000

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Switzerland—			
Bullion .. .. .	178,000	175,000	245,000
Coin .. .. .	246,000	11,000	10,000
Belgian Congo—			
Bullion .. .. .	98,000	107,000	160,000
Egypt—			
Bullion .. .. .	132,000	255,000	223,000
Coin .. .. .	4	3,000	60,000
French West Africa—			
Bullion .. .. .	7,000	1,000	2,000
Madagascar—			
Ore .. .. .	3,100	1,200	(a)
Costa Rica—			
Bullion .. .. .	75,000	(a)	(a)
Honduras (years ended July 31)—			
Bullion .. .. .	1,200	(a)	(a)
Mexico—			
Bullion .. .. .	295,000	(a)	(a)
Coin .. .. .	20,000	(a)	(a)
Nicaragua—			
Bullion, etc. .. .. .	23,000	16,000	13,000
Concentrates .. .. .	6,600	2,000	7,000
United States—			
Ore and base bullion ..	16,000	13,000	3,000
Refined bullion ..	2,640,000	19,910,000	5,390,000
United States coin ..	6,370,000	6,230,000	310,000

(a) Information not available.

## EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Bolivia			
Bullion .. .. .	200	500	700
Chile—			
Ore, excluding mixed ores .. .. .	8,000	1,300	300
Bullion .. .. .	151,000	—	—
Colombia—			
Bullion .. .. .	65,000	68,000	(a)
Dutch Guiana—			
Bullion .. .. .	8,000	(a)	(a)
Ecuador—			
Ore .. .. .	47,000	75,000	70,000
French Guiana—			
Bullion .. .. .	44,000	45,000	49,000
Peru—			
Ores, concentrates, etc.	36,000	21,000	45,000
Bullion, etc. .. ..	54,000	45,000	66,000
Scrap .. .. .	200	100	100
Coin .. .. .	200	3	—
Venezuela—			
Alluvial .. .. .	32,000	30,000	10,000
Bullion .. .. .	11,000	20,000	32,000
China—			
Bullion .. .. .	110,000	2,000	91,000
Coin .. .. .	2,000	7,000	1,000
Dutch East Indies—			
Bullion and scrap ..	103,000	91,000	(a)
Coin .. .. .	37,000	30,000	(a)
French Indo-China—			
Bullion .. .. .	(a)	100	(a)
Japan—			
Coin .. .. .	831,000	—	—

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Korea—			
Ore .. .. .	35,000	42,000	43,000
Persia ( <i>l</i> )—			
Bullion .. .. .	1,000	—	—
Coin .. .. .	11,000	—	—
Philippine Islands—			
Ore .. .. .	500	40	900
Bullion .. .. .	76,000	89,000	158,000
Coin .. .. .	—	—	9,000

(*a*) Information not available.

(*l*) Years ended March 21.

## IMPORTS OF GOLD

*(Less Re-exports)**(In terms of metal)*

(Troy ounces)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore, etc... .. .	59,500	59,300	42,700
Bullion (b)—			
Unrefined .. .. .	866,800	702,400	553,000
Refined .. .. .	6,045,000	7,710,000	8,721,000
Coin (b) .. .. .	680,000	2,607,000	4,968,000
Anglo-Egyptian Sudan—			
Bullion .. .. .	—	100	(a)
Coin .. .. .	(h) 24,000	(h) 2,500	(a)
Gold Coast—			
Bullion .. .. .	3,100	3,400	600
Kenya and Uganda—			
Bullion .. .. .	16,000	13,000	13,000
Coin .. .. .	5,800	4,600	370
Mauritius—			
Coin .. .. .	1,600	1,000	160
Nigeria—			
Bullion .. .. .	1,100	790	530
Southern Rhodesia (b)—			
Coin .. .. .	2,600	10,800	18,700
Tanganyika Territory—			
Bullion .. .. .	460	540	290
Union of South Africa (b)—			
Bullion .. .. .	11,400	4,500	200
Coin .. .. .	12,000	4,000	300

IMPORTS OF GOLD (*Cont.*)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE ( <i>Cont.</i> )			
Canada—			
Bullion, etc. ( <i>b</i> ) .. ..	36,100	44,700	42,800
British Guiana—			
Bullion .. .. .	250	180	20
Coin .. .. .	—	—	40
West Indies—			
Trinidad and Tobago—			
Bullion .. .. .	—	—	660
Coin .. .. .	1,300	4,000	3,900
British India (total im- ports)—			
Bullion .. .. .	1,718,000	2,160,000	1,505,000
Coin .. .. .	1,069,000	1,410,000	1,485,000
British Malaya—			
Bullion .. .. .	308,000	183,000	212,000
Coin .. .. .	388,000	220,000	221,000
Ceylon—			
Coin .. .. .	141,000	160,000	126,000
Australia (years ended June 30)—			
Ore, etc. .. .. .	13,000	9,300	380
Bullion, etc. .. .. .	115,000	101,000	76,000
Coin .. .. .	16,000	116,000	100
Fiji—			
Bullion .. .. .	10	6,200	3,300
New Zealand—			
Bullion, etc. .. .. .	370	780	1,300
Coin (total imports) ..	—	1,700	—
FOREIGN COUNTRIES			
Austria—			
Bullion .. .. .	445,000	343,000	244,000
Coin .. .. .	—	5,000	8,000
Drawn and rolled ..	2,500	2,900	2,600
Belgium-Luxemburg E.U.—			
Bullion, etc. .. .. .	84,000	160,000	123,000

(*b*) Total imports.

(*h*) Excess of re-exports.

IMPORTS OF GOLD (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Bullion .. .. .	16,000	22,000	25,000
Coin .. .. .	200	300	1,800
Denmark—			
Bullion and wire ..	3,000	3,500	6,000
Finland—			
Bullion .. .. .	140	140	120
Sheet and wire.. ..	220	250	230
France—			
Bullion and scrap .. ..	68,000	12,376,000	15,385,000
Coin .. .. .	100	12,000	1,157,000
Drawn or rolled .. ..	10,000	7,000	5,000
Germany—			
Ore .. .. .	1,600	600	2,400
Scrap .. .. .	47,000	98,000	77,000
Bullion .. .. .	5,000	14,000	20,000
do. (including alloyed)	1,655,000	10,411,000	4,880,000
Coin .. .. .	569,000	196,000	872,000
Hungary—			
Bullion .. .. .	18,000	36,000	23,000
Coin .. .. .	300	5,000	44,000
Italy—			
Bullion, etc. .. ..	133,000	148,000	137,000
Coin .. .. .	231,000	10,000	463,000
Jugoslavia —			
Bullion .. .. .	1,000	100	200
Latvia—			
Bullion .. .. .	1,000	1,000	500
Coin .. .. .	500	5,000	1,000
Lithuania—			
Bullion .. .. .	8,000	1,200	100



IMPORTS OF GOLD (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Netherlands—			
Bullion .. .. .	106,000	280,000	248,000
Coin .. .. .	411,000	459,000	71,000
Norway—			
Bullion .. .. .	2,000	1,000	(a)
Sheets and rolled ..	3,200	3,300	5,000
Coin .. .. .	60	70	(a)
Poland—			
Bullion, etc. .. ..	19,000	1,645,000	48,000
Coin .. .. .	5,300	6,900	2,300
Spain (total imports)—			
Bullion, etc. .. ..	700	600	400
Coin .. .. .	66,000	200	—
Sweden—			
Bullion .. .. .	5,000	175,000	186,000
Coin .. .. .	141,000	10	300
Switzerland—			
Bullion .. .. .	506,000	795,000	982,000
Coin .. .. .	42,000	71,000	38,000
Egypt—			
Bullion .. .. .	99,000	231,000	200,000
Coin .. .. .	64,000	44,000	19,000
Tunis—			
Coin .. .. .	50	—	—
Salvador—			
Coin .. .. .	300	1,300	(a)
United States—			
Ore and base bullion ..	876,000	701,000	846,000
Refined bullion ..	4,230,000	4,950,000	7,660,000
Coin .. .. .	4,440,000	2,250,000	5,060,000

(a) Information not available.

IMPORTS OF GOLD (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Argentina—			
Bullion .. .. .	500	300	(a)
Brazil (total imports)—			
Bullion .. .. .	40	145,000	1,700
Coin .. .. .	1,887,000	1,935,000	80,000
Venezuela—			
Coin .. .. .	40,500	274,000	(a)
China (total imports)—			
Bullion .. .. .	54,000	108,000	15,000
Coin .. .. .	14,000	100,000	15,000
Dutch East Indies—			
Bullion and scrap ..	48,000	45,000	(a)
Coin .. .. .	219,000	264,000	(a)
French Indo-China—			
Bullion .. .. .	121,000	132,000	55,000
Japan (total imports)—			
Bullion .. .. .	30	9,100	10,300
Coin .. .. .	10	—	—
Persia (total imports) (i)—			
Coin .. .. .	300	1,000	200
Philippine Islands—			
Bullion .. .. .	50	500	800
Coin .. .. .	12,000	20,000	20,000
Siam (total imports)—			
Bullion .. .. .	64,000	72,000	51,000
Coin .. .. .	500	400	400
Turkey			
Bullion, etc. .. ..	200	200	200

(a) Information not available.

(i) Years ended March 21.

## GRAPHITE

### PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Tanganyika Territory ..	—	6	—
Union of South Africa ..	57	50	52
Canada (sales) .. ..	1,633	940	1,304
Ceylon (exports) .. ..	12,884	14,347	12,739
India .. .. .	—	—	39
Australia .. .. .	10	—	50
Total ..	14,600	15,300	14,200
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	17,773	23,843	24,897
Czechoslovakia .. ..	40,464	31,821	(a)
France .. .. .	797	(a)	(a)
Germany .. .. .	17,492	17,187	21,012
Italy .. .. .	8,262	6,919	5,954
Russia (years ended Sept.30.)	6,749	1,867	(a)
Spain .. .. .	346	—	(a)
Madagascar (exports) ..	14,103	13,680	15,795
Mexico .. .. .	5,745	4,894	5,630
United States (sales) (b) ..	4,649	5,010	5,766
French Indo-China (i) ..	405	—	(a)
Japan .. .. .	623	435	(a)
Korea .. .. .	17,661	22,124	24,751
Total ..	135,000	129,000	138,000
<b>WORLD'S TOTAL</b>	150,000	144,000	152,000

(a) Information not available.

(b) In addition 5,472 long tons of artificial graphite were produced by the Acheson Graphite Co. during 1927. The figures for 1928 and 1929 are not available for publication.

(i) Mines production not being available, the quantity refers to refined graphite (83-86 per cent.)

EXPORTS OF GRAPHITE  
(Domestic Produce)  
(Long tons)

Exporting Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Crucibles .. .. .	3,322	3,931	3,767
Canada .. .. .	1,517	940	1,413
Ceylon .. .. .	12,884	14,347	12,739
Australia (including foundry-black) .. .. .	21	17	42
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	15,736	18,844	19,321
Belgium-Luxemburg E.U.—			
Crude and ground graphite	185	98	90
Crucibles, etc. .. .. .	2	24	51
Czechoslovakia .. .. .	13,060	11,861	9,733
Denmark .. .. .	37	61	81
France .. .. .	3,194	4,209	4,829
Germany .. .. .	3,462	4,299	5,345
Hungary .. .. .	17	18	1
Italy .. .. .	3,922	4,306	3,764
Jugoslavia .. .. .	—	29	6
Norway .. .. .	1	—	—
Poland .. .. .	131	44	(a)
Sweden .. .. .	15	4	3
Madagascar .. .. .	14,103	13,680	15,795
Morocco (French Zone) .. .. .	—	—	103
Mexico .. .. .	5,302	4,894	5,630
United States (including manufactures) .. .. .	1,624	1,967	1,441
Brazil .. .. .	—	9	15
French Indo-China .. .. .	371	98	—
Japan .. .. .	6,238	6,107	5,352
Korea .. .. .	—	22,730	24,256

## IMPORTS OF GRAPHITE

*(Less Re-exports)*

(Long tons)

Importing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Natural .. ..	12,637	15,215	14,041
Artificial.. ..	61	254	238
Crucibles .. ..	213	152	192
Southern Rhodesia .. ..	6	10	7
Union of South Africa .. ..	161	227	135
Canada—			
Unground .. ..	(£300)	(£826)	(£1,338)
Ground, including manu- factures .. ..	(£12,530)	(£14,063)	(£16,839)
Crucibles .. ..	(£12,507)	(£11,389)	(£13,659)
Newfoundland (years ended June 30) .. ..	(£24)	(£30)	(£26)
British India (total im- ports)—			
Graphite .. ..	214	586	511
Crucibles .. ..	196	177	180
Australia (including foun- dry-black) .. ..	693	635	511
New Zealand—			
Graphite.. ..	(£2,090)	(£1,793)	(£1,569)
FOREIGN COUNTRIES			
Austria .. ..	549	496	489
Belgium-Luxemburg E.U.—			
Crude and ground graphite	1,941	1,956	1,645
Crucibles, etc. .. ..	659	674	731
Bulgaria .. ..	96	72	(a)
Czechoslovakia .. ..	2,714	4,276	5,729
Denmark .. ..	592	883	793
Finland .. ..	53	89	79
France .. ..	7,418	10,745	8,239
Germany .. ..	25,762	26,503	20,735
Hungary .. ..	1,192	1,160	1,479
Italy .. ..	967	859	2,417
Jugoslavia .. ..	1,169	1,069	835
Latvia .. ..	19	44	32

(a) Information not available.

IMPORTS OF GRAPHITE (*Cont.*)

Importing Country	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Norway—			
Graphite .. ..	30	34	51
Crucibles .. ..	43	42	44
Poland .. ..	381	372	(a)
Portugal .. ..	21	13	10
Rumania .. ..	677	(a)	(a)
Russia (years ended Sept. 30)	701	547	669
Sweden .. ..	389	472	599
Algeria .. ..	31	50	76
Egypt .. ..	59	58	81
Tunis—			
Graphite .. ..	5	6	5
Crucibles .. ..	13	7	15
Mexico .. ..	64	70	(a)
United States .. ..	15,561	15,931	21,394
Argentina .. ..	343	443	(a)
Chile .. ..	66	90	96
Peru .. ..	18	15	18
Dutch East Indies ..	130	154	(a)
French-Indo China ..	20	(a)	(a)
Japan (total imports) ..	976	973	1,233

(a) Information not available.

**GYPSUM**

## PRODUCTION OF GYPSUM

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	506,350	634,645	967,491
Union of South Africa .. .. .	15,187	14,637	16,973
Canada .. .. .	987,236	1,171,109	1,081,592
Cyprus (shipments) .. .. .	15,139	11,426	12,555
Palestine .. .. .	1,140	1,320	1,475
India .. .. .	38,105	59,050	52,726
Australia .. .. .	122,842	118,867	15,707
Total .. .. .	1,700,000	2,000,000	2,150,000
<b>FOREIGN COUNTRIES</b>			
Austria (estimated) .. .. .	40,000	44,000	50,000
Estonia .. .. .	11,979	7,856	9,835
France .. .. .	2,040,240	(a)	(a)
Germany—			
Bavaria .. .. .	58,779	53,622	59,241
Greece .. .. .	1,982	—	(a)
Italy (including alabaster)	663,287	640,587	(a)
Yugoslavia (Serbia only) .. .. .	1,046	1,152	1,585
Luxemburg .. .. .	7,724	2,466	7,092
Rumania (k) .. .. .	76,496	47,030	75,414
Russia (years ended Sept. 30) .. .. .	278,532	(a)	(a)
Spain (k) .. .. .	896,950	1,037,368	(a)
Sweden .. .. .	88	114	(a)
Algeria (including alabaster)	72,000	76,349	101,394
Egypt (estimated) .. .. .	130,000	130,000	130,000
United States .. .. .	4,774,007	4,555,580	4,478,689
Cuba .. .. .	(a)	23,572	(a)
Argentina .. .. .	51,128	40,949	(a)
Chile .. .. .	8,245	8,969	(a)
Peru .. .. .	9,891	15,388	19,830
China (exports) .. .. .	2,431	3,214	3,098
Japan .. .. .	74,306	67,433	(a)
Total .. .. .	9,200,000	9,100,000	(a)
<b>WORLD'S TOTAL</b>	10,900,000	11,100,000	(a)

(a) Information not available.

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

## EXPORTS OF GYPSUM

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Calcined .. .. .	6,092	7,043	6,958
Union of South Africa—			
Crude and calcined ..	283	219	1,411
Canada—			
Crude .. .. .	525,721	736,193	797,719
Calcined .. .. .	5,854	7,350	7,087
Cyprus—			
Crude .. .. .	1,361	378	337
Calcined .. .. .	13,789	11,048	12,219
Australia (including re-exports)			
Crude .. .. .	6,662	-5,230	6,910
Calcined .. .. .	386	746	864
FOREIGN COUNTRIES			
Austria—			
Crude, ground and calcined	26,303	29,965	36,878
Belgium-Luxemburg E.U.—			
Crude .. .. .	3,807	1,027	2,981
Ground and calcined ..	7,002	12,045	11,222
Czechoslovakia—			
Crude and calcined ..	222	95	22
Denmark—			
Crude, ground and calcined	5	4	4
Estonia .. .. .	3,188	3,854	4,055
France .. .. .	262,853	331,836	354,115
Germany—			
Gypsum and phosphatic gypsum .. .. .	134,038	142,022	148,607
Hungary—			
Calcined .. .. .	46	24	3
Italy—			
Crude .. .. .	6,056	8,128	22,160
Calcined .. .. .	759	930	1,011
Alabaster, crude ..	3,275	3,522	2,079



EXPORTS OF GYPSUM (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Jugoslavia .. .. .	891	294	412
Latvia—			
Crude .. .. .	} 24,076	24,256	26,422
Ground and calcined .. .. .		3,321	207
Netherlands .. .. .	118	268	136
Poland—			
Crude .. .. .	2,332	3,297	} 4,274
Ground and calcined .. .. .	1,009	1,519	
Portugal—			
Crude .. .. .	33	45	36
Rumania .. .. .	21,960	23,950	(a)
Switzerland—			
Crude, including limestone .. .. .	1,226	1,212	1,664
Ground and calcined .. .. .	20	32	83
Algeria .. .. .	23,815	28,233	34,820
Egypt—			
Calcined .. .. .	85	74	(a)
Tunis (including re-exports)—			
Calcined .. .. .	(a)	134	103
Mexico .. .. .	68,407	92,586	(a)
United States—			
Crude and ground .. .. .	} 16,589	2,112	3,777
Calcined and manufactures .. .. .		14,663	21,945
Argentina .. .. .	541	995	(a)
Chile .. .. .	6	—	—
China .. .. .	2,431	3,214	3,098

(a) Information not available.

## IMPORTS OF GYPSUM

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Crude, including alabaster ..	47,752	58,614	76,991
Calcined .. .. .	2,804	4,888	7,698
<b>Irish Free State—</b>			
Calcined .. .. .	4,586	5,402	6,683
<b>Southern Rhodesia—</b>			
Crude and calcined ..	751	1,152	682
<b>Union of South Africa—</b>			
Crude and calcined ..	539	774	1,043
<b>Canada—</b>			
Crude .. .. .	975	979	1,111
Ground .. .. .	99	229	147
Calcined .. .. .	6,264	9,432	14,604
<b>Newfoundland (years ended   June 30)—</b>			
Crude and calcined ..	(£416)	(£261)	(£588)
<b>Palestine (total imports)—</b>			
Crude and calcined ..	841	560	467
<b>Australia—</b>			
Crude and calcined ..	3,495	3,974	3,489
<b>New Zealand—</b>			
Crude .. .. .	8,021	5,278	6,561
Calcined .. .. .	8,368	10,022	12,660
<b>FOREIGN COUNTRIES</b>			
<b>Austria—</b>			
Crude, ground and calcined	1,489	1,865	1,931
<b>Belgium-Luxemburg E.U.—</b>			
Crude .. .. .	131,608	160,227	159,037
Ground and calcined ..	33,856	46,811	58,648
Alabaster, crude .. ..	24	39	48
<b>Bulgaria .. .. .</b>	5,587	2,304	(a)
<b>Czechoslovakia—</b>			
Crude and calcined ..	61,573	75,727	74,144
<b>Denmark—</b>			
Crude, ground and calcined	21,322	25,324	25,442
<b>Estonia.. .. .</b>	40	37	47

IMPORTS OF GYPSUM (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Finland—			
Crude .. .. .	14,074	14,882	11,974
Calcined .. .. .	18,225	23,264	12,539
France—			
Alabaster .. .. .	154	157	278
Calcined .. .. .	4,810	8,971	7,938
Germany—			
Gypsum and phosphatic gypsum .. .. .	12,415	15,411	12,269
Greece .. .. .	90	118	152
Hungary—			
Ground .. .. .	163	128	215
Calcined .. .. .	24,927	25,208	22,808
Italy—			
Crude .. .. .	1,330	897	814
Calcined .. .. .	1,257	977	1,106
Alabaster, crude .. .. .	—	1	—
Jugoslavia—			
Crude .. .. .	13	16	204
Ground and calcined .. .. .	1,422	1,583	1,270
Latvia—			
Crude and ground .. .. .	32	115	126
Lithuania—			
Ground and calcined .. .. .	363	411	313
Netherlands .. .. .	24,442	25,753	28,443
Norway—			
Crude .. .. .	7,601	7,900	9,085
Calcined .. .. .	1,807	1,870	2,103
Poland—			
Crude .. .. .	11	25	} 3,505
Ground and calcined .. .. .	3,475	3,730	
Portugal—			
Crude .. .. .	4,434	3,155	5,791
Calcined .. .. .	520	766	932
Rumania—	8,077	(a)	(a)
Sweden—			
Crude .. .. .	10,443	11,416	12,217
Ground and calcined .. .. .	5,679	5,587	6,693
Switzerland—			
Crude, including limestone	3,496	2,781	2,917
Ground and calcined .. .. .	4,112	3,726	5,749

(a) Information not available.

## IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Algeria .. .. .	1,109	1,518	6,156
Angola .. .. .	39	32	(a)
Egypt—			
Calcined .. .. .	14,388	11,549	11,449
Morocco .. .. .	5,524	7,687	10,626
Mozambique—			
Crude and calcined.. ..	315	407	1,383
Tunis—			
Alabaster .. .. .	3	1	3
Calcined .. .. .	(a)	84	105
Costa Rica (total imports) ..	45	(a)	(a)
Cuba (total imports) .. ..	7,031	4,216	(a)
United States—			
Crude .. .. .	739,838	918,586	925,344
Ground, calcined and manu- factured .. .. .	(£46,139)	(£41,359)	(£31,576)
Argentina .. .. .	1,680	2,273	(a)
Chile .. .. .	35	48	26
Colombia—			
Ground .. .. .	144	(a)	(a)
Peru—			
Crude .. .. .	(a)	159	16
Calcined .. .. .	(a)	7	12
Uruguay—			
Ground .. .. .	1,520	1,553	1,443
Venezuela .. .. .	55	383	(a)
Dutch East Indies .. .. .	372	643	(a)
Formosa .. .. .	1,859	2,769	4,943
French Indo-China .. .. .	193	201	5,417
Japan (total imports) .. ..	14,959	22,575	19,197
Philippine Islands .. .. .	1,343	1,899	1,574

(a) Information not available.

## IRON AND STEEL.

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

Producing Country.	Ore.			Estimated Iron Content.		
	1927	1928	1929	1927	1928	1929
<b>BRITISH EMPIRE</b>						
Great Britain ..	11,206,601	11,262,323	13,214,943	3,361,980	3,378,697	3,964,448
Northern Ireland ..	5,219	806	689	(a)	(a)	(a)
Northern Rhodesia	3,419	4,466	3,556	(a)	(a)	(a)
Southern Rhodesia	470	3,062	3,352	(a)	(a)	(a)
South West Africa	21,409	29,456	28,244	(a)	(a)	(a)
Union of South Africa	76,299	20,568	37,666	33,366	8,978	16,419
Newfoundland ..	1,209,777	1,485,178	1,494,452	653,000	802,000	807,000
India .. ..	1,846,735	2,055,981	2,428,555	1,180,000	1,320,000	1,550,000
Unfederated Malay States (Johore)	458,297	644,635	(a)	298,000	419,000	(a)
Australia .. ..	884,806	675,092	852,960	584,000	446,000	563,000
New Zealand ..	6,886	12,725	8,043	4,000	7,000	(a)
Total ..	15,700,000	16,200,000	19,000,000			
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	1,573,323	1,897,729	1,861,509	496,103	595,944	587,898
Belgium .. ..	178,033	161,823	(a)	80,000	73,000	(a)
Czechoslovakia ..	1,565,407	1,751,076	(a)	500,271	559,773	(a)
France .. ..	44,764,050	48,548,774	50,223,808	(a)	(a)	(a)
Germany (b) ..	6,520,865	6,372,357	6,272,546	2,090,520	2,055,824	(a)
Greece .. ..	122,522	164,269	(a)	63,272	81,304	(a)
Hungary .. ..	191,330	196,395	247,882	(a)	(a)	(a)
Italy (c) .. ..	512,614	631,947	858,400	249,731	309,619	416,000
Jugoslavia ..	330,791	432,539	443,676	182,000	238,000	244,000

\* For detailed figures see page 153.

(a) Information not available.

(b) Including manganiferous ore as follows :—

	Under 12 per cent. Mn	12-30 per cent. Mn
1927 ..	3,183,639 long tons.	305,419 long tons.
1928 ..	3,307,618 " "	175,537 " "
1929 ..	(a) " "	179,096 " "

(c) Including manganiferous ore of 30 per cent. Mn and less as follows :—

1927 .. ..	17,273 long tons.
1928 .. ..	15,354 " "
1929 .. ..	(a) " "

Producing Country.	Ore.			Estimated Iron Content.		
	1927	1928	1929	1927	1928	1929
<b>FOREIGN COUNTRIES</b>						
—(Cont).						
Luxemburg .. ..	7,151,489	6,915,853	7,451,629	2,207,774	2,118,326	2,251,137
Norway .. ..	471,764	652,241	734,328	309,902	428,429	481,436
Poland .. ..	537,741	725,119	649,000	(a)	(a)	(a)
Portugal .. ..	7,491	14,000	11,580	(a)	(a)	(a)
Rumania .. ..	95,604	82,544	88,592	41,000	36,000	39,000
Russia (years ended						
Sept. 30) .. ..	4,736,991	5,829,509	7,000,000	(a)	(a)	(a)
Spain .. ..	4,893,184	5,693,411	6,011,000	2,393,600	2,740,500	(a)
Sweden .. ..	9,508,395	4,595,064	11,286,437	5,906,020	2,787,598	(a)
Switzerland						
(exports)	80,371	64,664	87,048	(a)	(a)	(a)
Algeria .. ..	1,972,546	1,974,409	2,135,517	986,273	987,205	1,080,748
Belgian Congo ..	77,000	50,000	(a)	(a)	(a)	(a)
Morocco (French)	1,033	(a)	(a)	(a)	(a)	(a)
" (Spanish)						
(exports)	1,039,295	1,077,859	561,000	582,000	(a)	(a)
Tunis .. ..	901,000	895,000	961,407	496,000	492,000	529,000
Cuba (shipments) ..	414,847	394,421	230,000	(a)	(a)	(a)
Mexico .. ..	63,000	(a)	(a)	(a)	(a)	(a)
United States (d) ..	63,199,518	63,373,070	74,215,978	31,200,000	31,400,000	(a)
Brazil (estimated)	30,000	30,000	30,000	20,000	20,000	20,000
Chile .. ..	1,484,465	1,500,694	1,780,394	979,747	990,458	(a)
China .. ..	1,190,000	(a)	(a)	(a)	(a)	(a)
Japan .. ..	156,494	155,215	(a)	99,000	98,000	(a)
Korea .. ..	476,352	496,409	543,099	(a)	(a)	(a)
Manchuria .. ..	620,644	664,953	(a)	(a)	(a)	(a)
Total (e) ..	154,000,000	157,000,000	177,000,000			
World's Total (e) ..	170,000,000	173,000,000	196,000,000			

(a) Information not available.

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

	5-10 per cent. Mn.	10-35 per cent. Mn.
1927 ..	1,310,127 long tons.	148,291 long tons.
1928 ..	1,085,401 " "	90,581 " "
1929 ..	1,110,067 " "	78,191 " "

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

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

Producing Country	1927	1928	1929
Great Britain—			
West Coast hematite ..	1,240,990	1,172,428	1,391,756
Jurassic ironstones—			
Lower lias .. ..	2,553,149	2,353,938	2,842,387
Middle lias .. ..	4,069,169	3,944,196	4,475,238
Inferior oolite ..	2,920,581	3,242,056	3,880,380
Coal measure ironstones	297,707	369,651	417,041
Other iron ore (hematite, brown ore, etc.) ..	125,005	180,054	208,141
Northern Ireland—			
Hematite and limonite ..	5,219	806	689
Belgium—			
Oolithic limonite and oligist .. .. .	161,823	151,371	(a)
Limonite .. .. .	16,210	10,452	(a)
France—			
Non phosphoric .. ..	241,131	171,973	191,853
Moderately phosphoric ..	2,111,762	2,230,463	2,399,050
Phosphoric .. .. .	42,411,157	46,056,338	47,206,250
Germany—			
Brown iron ore (under 12 per cent Mn) ..	3,183,639	3,307,619	(a)
Brown iron ore (12–30 per cent. Mn) ..	305,419	175,537	(a)
Hematite .. .. .	608,102	660,855	(a)
Sparry iron ore .. ..	2,147,214	1,933,651	(a)
Magnetic iron ore ..	34,829	34,437	(a)
Earthy and carburetted ironstone .. .. .	4,109	2,427	(a)
Flux ironstone .. ..	113,310	101,316	(a)
Meadow ore .. .. .	597	552	(a)
Other iron ore .. ..	123,646	155,963	(a)
By phosphorus content—			
To 0.05 per cent. ..	2,338,372	2,098,732	(a)
Over 0.05 to 0.1 per cent. . . . .	344,225	235,570	(a)
Over 0.1 to 0.5 per cent. . . . .	1,763,583	1,885,514	(a)
Over 0.5 to 0.75 per cent. . . . .	142,303	108,614	(a)
Over 0.75 to 1.0 per cent. . . . .	986,536	963,466	(a)
Over 1.0 per cent. ..	945,846	1,080,461	(a)
Greece—			
Iron ore .. .. .	121,909	164,232	(a)
Manganiferous iron ore ..	613	36	(a)
Italy—			
Iron ore .. .. .	495,341	615,609	852,800
Manganiferous iron ore ..	17,273	15,354	5,600

(a) Information not available.

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

Producing Country	1927	1928	1929
Luxemburg—			
Siliceous iron ore ..	3,899,897	3,833,437	4,067,984
Calcareous iron ore ..	3,128,361	2,996,749	3,151,777
Ferruginous limestones ..	123,231	85,667	231,868
By phosphorus content—			
From 0·5 to 0·6 per cent. ..	2,055,121	36,953	2,019,156
From 0·6 to 0·7 per cent. ..	5,096,368	6,878,900	5,432,473
Poland—			
Brown iron ore .. ..	37,302	75,250	} 649,000
Argilliferous iron ore ..	500,438	612,505	
Portugal—			
Hematite .. ..	7,491	14,000	11,580
Rumania—			
Limonite, siderite and magnetite .. ..	95,604	82,544	88,592
Sweden—			
By phosphorus content—			
Under 0·01 per cent. ..	451,655	429,238	(a)
From 0·01 per cent. to 0·05 per cent. ..	1,202,487	706,005	(a)
From 0·05 per cent. to 0·1 per cent. ..	286,893	126,761	(a)
From 0·1 per cent. to 0·6 per cent. ..	915,406	434,302	(a)
From 0·6 per cent. to 1·0 per cent. ..	1,365,871	735,602	(a)
1·0 per cent and over	5,370,909	2,163,148	(a)
Algeria—			
Non phosphoric .. ..	1,936,573	1,961,342	2,135,517
Moderately phosphoric ..	35,973	13,067	—
United States—			
Ore containing less than 5 per cent. Mn—			
Hematite*	58,505,543	59,207,857	69,849,231
Magnetite* .. ..	2,489,586	2,170,804	2,401,104
Brown ore .. ..	743,478	816,637	775,610
Carbonate .. ..	2,493	1,790	1,775
Ore containing 5 to 10 per cent. Mn .. ..	1,310,127	1,085,401	1,110,067
Ore containing 10 to 35 per cent. Mn ..	148,291	90,581	78,191

\* Some hematite is included with magnetite.

(a) Information not available.



## EXPORTS OF IRON ORE

*(Domestic Produce)*

(Long tons)

Exporting Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	7,110	15,366	6,586
Canada .. ..	2,209	2,335	3,446
Newfoundland .. ..	1,335,429	1,547,895	1,516,999
British Malaya (c) ..	423,990	664,703	809,749
FOREIGN COUNTRIES			
Austria .. ..	144,662	305,465	260,217
Belgium-Luxemburg E. U.	888,559	885,352	805,035
Czechoslovakia .. ..	259,886	242,075	346,498
France .. ..	14,433,113	16,785,110	16,130,094
Germany .. ..	164,665	176,319	114,065
Greece .. ..	56,247	68,953	131,298
Hungary (including burnt pyrites) .. ..	30,805	53,199	45,724
Italy .. ..	2,835	33,888	21,118
Jugoslavia .. ..	314,185	364,009	381,961
Netherlands .. ..	34	72	2,891
Norway .. ..	216,470	404,847	539,251
Poland .. ..	90,056	114,849	97,494
Portugal .. ..	6,407	13,779	9,314
Rumania .. ..	10,198	26,366	(a)
Russia (years ended Sept. 30) .. ..	401,246	421,658	542,693
Spain (c) .. ..	4,682,410	5,335,602	5,506,179
Sweden .. ..	10,546,524	5,012,512	10,726,833
Switzerland .. ..	80,371	64,664	87,048
Algeria .. ..	2,344,618	1,978,793	2,107,515
Tunis (c) .. ..	976,871	877,625	959,026
Cuba (c) .. ..	272,616	53,149	(a)
United States .. ..	898,793	1,282,306	1,304,417
Chile .. ..	1,484,465	1,500,694	1,787,277
Peru .. ..	—	—	99
China .. ..	493,965	910,384	964,276
Korea .. ..	(£106,097)	221,830	309,170
Turkey .. ..	—	—	3,451

(a) Information not available.

(c) Including re-exports.

## IMPORTS OF IRON ORE

*(Less Re-exports)*

(Long tons)

Importing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	5,163,489	4,439,866	5,689,342
Canada .. .. .	1,328,005	1,984,729	2,185,542
British India (b) .. ..	—	10	24
Australia .. .. .	23	—	—
FOREIGN COUNTRIES			
Austria .. .. .	1,716	1,270	1,857
Belgium-Luxemburg E. U.	12,477,688	13,404,149	13,835,012
Czechoslovakia .. ..	713,653	1,222,158	1,615,235
Finland .. .. .	825	404	266
France .. .. .	1,030,787	972,895	1,123,401
Germany .. .. .	17,133,934	13,576,584	16,685,076
Hungary (including burnt pyrites) .. .. .	396,202	426,012	561,737
Italy .. .. .	127,894	60,781	208,941
Jugoslavia .. .. .	90	1,024	41
Netherlands .. .. .	385,437	503,772	453,646
Norway .. .. .	323	4,077	11,098
Poland .. .. .	578,874	410,453	524,870
Rumania .. .. .	3,800	(a)	(a)
Spain (b) .. .. .	1,776	5,507	953
Sweden .. .. .	5	26	—
Switzerland .. .. .	51,589	53,489	48,770
Algeria .. .. .	3,815	5,725	3,760
Tunis .. .. .	6,347	4,703	12,857
United States .. .. .	2,620,717	2,452,646	3,139,334
Chile .. .. .	—	19	141
Japan (b) .. .. .	922,681	1,591,437	1,915,895
Korea .. .. .	—	42,296	38,221
Turkey .. .. .	1	126	39

(a) Information not available.

(b) Total imports.

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

(Long tons)

Port	1927	1928	1929
ENGLAND AND WALES			
North-East—			
Grimsby, including Im- mingham .. ..	125,065	122,516	277,891
Hartlepool .. ..	150	380	23,500
Middlesbrough .. ..	1,658,576	1,252,954	1,965,181
Newcastle, including			
Shields .. ..	568,739	428,795	499,511
Stockton .. ..	7,031	915	774
Sunderland .. ..	101,890	142,835	53,129
North-West—			
Barrow-in-Furness ..	146,651	87,363	—
Lancaster .. ..	27,864	—	—
Liverpool .. ..	202,830	96,047	169,399
Manchester .. ..	97,539	72,960	103,219
Maryport .. ..	60,713	—	—
South-West—			
Cardiff .. ..	510,923	536,619	648,474
Newport .. ..	423,383	561,936	473,387
Port Talbot .. ..	147,851	236,474	262,981
Swansea .. ..	999	—	—
SCOTLAND			
Ardrossan .. ..	213,828	103,262	208,149
Ayr .. ..	60,263	2,230	—
Glasgow .. ..	541,465	422,857	447,246
Grangemouth .. ..	184,589	212,636	247,585
Troon .. ..	18,246	5,754	—

For total imports see page 156.

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

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	7,292,900	6,610,100	7,589,300
Union of South Africa .. ..	30,127	8,914	16,249
Canada .. .. .	766,211	1,082,768	1,170,254
India .. .. .	1,145,143	1,051,884	1,348,175
Australia .. .. .	517,224	410,873	(a)
New Zealand .. .. .	3,383	6,362	4,393
Total .. .. .	9,750,000	9,170,000	
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	425,914	451,210	454,937
Belgium .. .. .	3,650,510	3,796,075	4,031,250
Czechoslovakia .. .. .	1,240,457	1,544,480	(a)
Finland .. .. .	8,624	(a)	(a)
France—			
Saar .. .. .	1,742,752	1,905,606	2,071,695
Other districts .. .. .	9,152,000	9,823,254	10,285,000
Germany .. .. .	12,882,078	11,617,144	13,189,120
Hungary .. .. .	295,495	280,953	362,140
Italy .. .. .	521,126	545,362	718,749
Jugoslavia .. .. .	22,293	28,841	32,665
Luxemburg .. .. .	2,689,339	2,726,312	2,860,195
Netherlands .. .. .	200,475	254,146	249,768
Norway .. .. .	117,943	132,339	140,652
Poland .. .. .	608,439	673,149	693,311
Rumania .. .. .	62,495	69,016	71,203
Russia (years ended Sept. 30)	2,972,002	3,228,684	3,954,300
Spain .. .. .	583,703	553,931	687,448
Sweden .. .. .	447,325	430,602	515,556
Mexico .. .. .	39,164	47,490	59,279
United States .. .. .	36,565,645	38,155,714	42,613,983
Brazil .. .. .	15,331	21,286	(a)
China (estimated) .. .. .	300,000	300,000	300,000
Japan (l) .. .. .	896,866	1,516,131	(a)
Korea .. .. .	126,984	146,304	153,058
Manchuria .. .. .	240,346	280,181	(a)
Philippine Islands .. .. .	197	300	(a)
Total .. .. .	75,800,000	78,500,000	86,800,000
<b>WORLD'S TOTAL</b>	85,600,000	87,700,000	97,300,000

\* For details see page 159.

(a) Information not available.

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

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

(Long tons)

Producing Country.	1927	1928	1929	
BRITISH EMPIRE				
United Kingdom—				
Hematite .. .. .	2,452,600	2,138,900	2,347,900	
Basic .. .. .	2,359,000	2,432,200	3,196,500	
Foundry .. .. .	1,888,600	1,538,800	1,473,200	
Forge .. .. .	276,600	268,500	275,200	
Other kinds of pig-iron	133,700	84,200	117,800	
Spiegeleisen .. .. .	17,600	31,500	} 178,700	
Ferro-manganese .. .. .	156,400	114,600		
Ferro-silicon .. .. .	8,400	1,400		
Canada—				
Basic .. .. .	523,701	724,561	781,461	
Foundry .. .. .	145,787	233,136	234,226	
Malleable .. .. .	40,209	79,838	74,557	
Ferro-alloys .. .. .	56,514	45,233	80,010	
India—				
Basic .. .. .	306,901	} 1,043,335	307,584	
Foundry and forge .. .. .	828,230		1,032,481	
Direct castings .. .. .	4,920		5,316	4,478
Ferro-manganese .. .. .	5,092		3,233	3,632
FOREIGN COUNTRIES				
Austria—				
Basic .. .. .	407,116	430,607	434,040	
Foundry .. .. .	18,798	20,603	17,684	
Belgium—				
Basic .. .. .	3,453,344	3,602,934	} 4,031,250	
Foundry, hematite .. .. .	53,137	45,411		
phosphoric .. .. .	107,662	110,133		
Ferro-alloys .. .. .	36,367	37,597		
Czechoslovakia—				
Basic .. .. .	1,012,593	1,274,767	(a)	
Foundry .. .. .	221,528	262,312	(a)	
Ferro-alloys .. .. .	6,336	7,401	(a)	
France—				
Saar—				
Basic .. .. .	1,534,958	1,700,319	1,867,768	
Foundry and castings	207,794	205,286	20,393	
Other districts—				
Basic .. .. .	7,060,000	7,657,093	7,958,000	
Bessemer .. .. .	23,000	11,607	(a)	
Foundry .. .. .	1,506,000	1,482,884	(a)	
Forge .. .. .	299,000	310,938	(a)	

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

Producing Country	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>France (Cont.)—</b>			
Other districts (Cont.)—			
Spiegeleisen .. ..	141,200	100,283	} 224,000
Ferro-manganese ..	36,900	63,152	
Ferro-silicon .. ..	28,100	32,753	
Other pig-iron and ferro-alloys .. ..	57,940	164,544	(a)
<b>Germany—</b>			
Basic .. .. .	7,763,782	7,156,130	8,291,807
Bessemer .. ..	15,413	14,847	15,847
Foundry .. ..	2,284,018	2,092,927	2,218,468
Forge, etc. .. ..	21,886	13,370	11,256
Manganese pig-iron (†) and ferro-alloys ..	2,796,979	2,339,870	2,651,742
<b>Italy—</b>			
Coke iron .. ..	457,746	447,902	} 667,775
Charcoal iron .. ..	—	287	
Electric, etc. .. ..	23,690	51,278	
Spiegeleisen .. ..	11,758	3,086	11,702
Ferro-manganese ..	13,650	17,253	21,077
Ferro-silicon .. ..	10,880	9,879	15,984
Other ferro-alloys ..	3,402	15,677	2,211
<b>Luxemburg—</b>			
Basic .. .. .	2,603,518	2,667,793	2,814,092
Foundry .. ..	72,657	53,916	41,965
Forge .. .. .	5,192	4,603	4,138
Ferro-alloys .. ..	7,972	—	—
<b>Norway—</b>			
Electric .. .. .	12,580	15,004	16,823
Ferro-alloys .. ..	105,363	117,335	123,829
<b>Poland—</b>			
Foundry .. .. .	172,019	154,152	141,045
Basic .. .. .	—	—	2,418
Acid .. .. .	398,170	486,839	506,085
Castings .. .. .	1,117	1,161	5,771
Ferro-alloys .. ..	36,375	30,997	37,992
<b>Russia (years ended Sept. 30)—</b>			
Foundry .. .. .	691,026	} 3,228,684	} 3,954,300
Basic .. .. .	2,121,659		
Castings .. .. .	13,129		
Other kinds .. ..	81,053		

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

Producing Country.	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Russia (years ended Sept. 30) (Cont.)—			
Ferro-manganese .. ..	32,132	(a)	(a)
Spiegeleisen .. ..	28,771	(a)	(a)
Ferro-silicon .. ..	4,245	(a)	(a)
Other ferro-alloys .. ..	7	(a)	(a)
Spain—			
Pig-iron .. ..	581,141	548,178	684,701
Ferro-manganese .. ..	2,162	5,226	2,748
Ferro-silicon .. ..	400	527	—
Sweden—			
Open hearth, acid .. ..	128,636	124,384	162,805
basic .. ..	58,234	54,657	60,212
Bessemer, acid .. ..	28,482	30,740	27,267
basic .. ..	80,127	65,729	108,036
Foundry .. ..	74,330	71,286	71,636
Forge .. ..	32,465	35,281	41,265
Direct castings .. ..	8,893	7,759	10,722
Ferro-manganese .. ..	1,808	2,250	2,618
Ferro-silicon .. ..	23,461	23,484	18,346
Other ferro-alloys .. ..	11,889	15,032	12,649
United States—			
Basic .. ..	19,357,064	22,124,410	24,911,654
Bessemer and low phos- phorus .. ..	9,105,915	9,013,847	9,877,240
Foundry .. ..	5,504,419	4,209,790	4,446,011
Forge .. ..	144,532	88,362	167,930
Malleable .. ..	1,699,583	1,922,970	2,312,813
Other pig-iron .. ..	46,719	42,269	41,567
Spiegeleisen .. ..	100,720	} 419,213	476,655
Ferro-manganese .. ..	293,626		
Ferro-silicon .. ..	278,277	303,595	341,222
Other ferro-alloys .. ..	34,790	31,258	38,891
Japan—			
Pig-iron .. ..	881,107	1,499,310	(a)
Ferro-alloys .. ..	15,759	16,821	(a)

(a) Information not available.

(i) Containing 4-8 per cent. manganese.

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

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Pig-iron—			
Forge or foundry ..	146,911	236,730	199,001
Acid .. .. .	124,039	158,668	246,904
Basic .. .. .	699	1,297	9,685
Spiegeleisen and ferro- manganese .. ..	58,230	56,643	88,173
Ferro-silicon .. ..	349	436	475
Other ferro-alloys .. ..	760	989	879
Canada—			
Pig-iron .. .. .	344	1,043	7,478
Ferro-silicon .. ..	17,882	14,321	27,491
Ferro-manganese, spiegel- eisen and other ferro-alloys	21,244	24,812	34,044
British India —			
Pig-iron .. .. .	383,960	428,625	548,881
Ferro-manganese .. ..	3,042	3,108	4,198
British Malaya (including re- exports)—			
Pig-iron .. .. .	91	83	47
Australia (including re- exports)—			
Pig-iron .. .. .	16	10	20
New Zealand—			
Pig-iron .. .. .	1,110	500	—
<b>FOREIGN COUNTRIES</b>			
Austria—			
Pig-iron .. .. .	79,994	61,801	42,283
Ferro-silicon .. ..	5,279	6,305	6,359
Other ferro-alloys .. ..	30	72	173
Belgium-Luxemburg E.U.			
Pig-iron .. .. .	132,878	97,554	119,130
Czechoslovakia—			
Pig-iron .. .. .	61,888	50,613	48,741
Spiegeleisen .. ..	1,778	1,837	1,549
Other ferro-alloys .. ..	64	31	41
Finland—			
Pig-iron and ferro-alloys ..	880	800	4,260
France—			
Pig-iron and spiegeleisen ..	822,337	624,581	552,276
Other ferro-alloys .. ..	7,254	10,124	10,117
Germany—			
Pig-iron .. .. .	315,153	250,682	381,632
Ferro-alloys .. .. .	48,677	59,239	66,967



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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Italy—			
Pig-iron .. .. .	30	723	535
Ferro-manganese and ferro- silicon-manganese ..	1,458	1,954	4,563
Other ferro alloys .. ..	128	1,154	1,115
Jugoslavia—			
Pig-iron .. .. .	237	36	—
Ferro-silicon .. .. .	4,811	3,496	3,236
Ferro-manganese .. .. .	95	107	103
Netherlands—			
Pig-iron and ferro-alloys ..	147,270	212,307	176,445
Norway—			
Pig-iron .. .. .	536	3,088	11,635
Ferro-silicon .. .. .	28,980	29,302	40,250
Ferro-chrome .. .. .	3,946	2,757	3,809
Ferro-manganese .. .. .	69,871	76,089	67,892
Poland—			
Pig-iron .. .. .	11,087	319	187
Ferro-manganese .. .. .	5,323	5,316	4,410
Other ferro-alloys .. .. .	84	10	—
Rumania—			
Pig-iron .. .. .	984	1,780	(a)
Russia (years ended Sept. 30)—			
Pig-iron .. .. .	(a)	1,652	406
Spain (including re-exports)—			
Pig-iron .. .. .	5	1,500	1,478
Sweden—			
Pig-iron .. .. .	86,102	70,935	69,994
Ferro-alloys .. .. .	25,605	31,826	31,624
Switzerland—			
Pig-iron and steel .. .. .	88	2	—
Ferro-alloys .. .. .	8,290	5,709	6,375
Mexico—			
Pig-iron .. .. .	70	325	(a)
United States—			
Pig-iron .. .. .	50,992	84,682	46,256
Ferro-alloys .. .. .	4,906	12,061	7,392
China—			
Pig-iron .. .. .	200,912	217,057	202,226
Korea—			
Pig-iron .. .. .	(£589,049)	140,080	137,610

(a) Information not available.

## IMPORTS OF PIG-IRON AND FERRO-ALLOYS

(Less Re-exports)

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Pig-iron—			
Forge .. .. .	25,639	6,028	1,989
Foundry .. .. .	241,941	38,718	45,518
Acid .. .. .	29,240	2,599	2,628
Basic .. .. .	282,435	46,358	71,886
Spiegeleisen and ferro- manganese .. .. .	8,089	5,795	6,251
Other ferro-alloys .. .. .	20,732	19,584	24,662
Irish Free State—			
Pig-iron .. .. .	3,440	4,354	16,090
Anglo-Egyptian Sudan—			
Pig-iron .. .. .	(£905)	93	(a)
Mauritius—			
Pig-iron .. .. .	65	77	61
Union of South Africa—			
Pig-iron, including steel ingots	6,214	4,609	6,288
Ferro-silicon .. .. .	106	136	149
Ferro-manganese .. .. .	327	318	445
Other ferro-alloys .. .. .	27	28	34
Canada—			
Pig-iron .. .. .	40,922	43,307	32,548
Ferro-silicon .. .. .	114	262	618
Ferro-manganese, spiegel- eisen and other ferro-alloys	3,406	5,435	7,560
Newfoundland (years ended June 30)—			
Pig-iron .. .. .	(£2,461)	(£1,194)	(£1,976)
British India (total imports)—			
Pig-iron .. .. .	3,852	4,050	2,840
British Malaya (total imports)—			
Pig-iron .. .. .	6,790	4,748	3,790
Ceylon—			
Pig-iron .. .. .	798	921	918
Cyprus—			
Pig-iron .. .. .	59	54	90
Palestine (total imports)—			
Pig-iron .. .. .	123	229	220
Australia—			
Pig-iron .. .. .	8,410	7,271	5,247
Ferro-alloys .. .. .	652	532	505
New Zealand—			
Pig-iron .. .. .	3,497	2,668	5,484

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES			
Austria—			
Pig-iron .. .. .	30,014	32,800	35,220
Ferro-silicon .. .. .	598	666	622
Other ferro-alloys .. .. .	4,467	5,999	5,577
Belgium-Luxemburg E.U.—			
Pig-iron .. .. .	375,126	542,213	663,144
Bulgaria—			
Pig-iron .. .. .	2,407	4,712	4,996
Czechoslovakia—			
Pig-iron .. .. .	55,815	54,988	56,270
Spiegeleisen .. .. .	10	441	—
Other ferro-alloys .. .. .	16,618	17,276	22,229
Denmark—			
Pig-iron .. .. .	33,334	45,714	52,322
Ferro-alloys .. .. .	203	194	493
Estonia—			
Pig-iron .. .. .	1,076	1,473	2,022
Finland—			
Pig-iron .. .. .	16,375	21,433	18,320
Ferro-alloys .. .. .	199	237	183
France—			
Pig-iron and spiegeleisen .. .. .	38,128	39,753	39,527
Other ferro-alloys .. .. .	27,919	18,396	15,677
Germany—			
Pig-iron .. .. .	279,068	300,158	172,410
Ferro-alloys .. .. .	32,853	30,247	32,752
Greece—			
Pig-iron .. .. .	4,348	3,742	3,452
Hungary—			
Pig-iron .. .. .	39,515	37,070	(a)
Ferro-alloys .. .. .	3,658	3,942	(a)
Italy—			
Pig-iron .. .. .	120,145	136,738	174,863
Ferro-alloys .. .. .	339	842	1,168
Jugoslavia—			
Pig-iron .. .. .	8,530	10,020	13,210
Ferro-manganese .. .. .	764	1,749	2,148
Ferro-silicon .. .. .	537	334	56
Latvia—			
Pig-iron and ferro-alloys .. .. .	2,375	5,249	5,082

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Pig-iron and ferro-alloys ..	31,226	35,065	30,024
Norway—			
Pig-iron .. .. .	8,441	14,402	16,687
Ferro-silicon .. .. .	5	—	111
Ferro-tungsten and ferro- vanadium.. .. .	5	23	26
Poland—			
Pig-iron .. .. .	8,382	4,805	5,734
Ferro-manganese .. .. .	736	1,248	7
Other ferro-alloys .. .. .	1,662	1,093	1,731
Rumania—			
Pig-iron .. .. .	10,370	(a)	(a)
Russia (years ended Sept. 30)—			
Pig-iron .. .. .	21,916	526	65
Ferro-alloys .. .. .	5,603	6,858	9,857
Spain (total imports)—			
Pig-iron .. .. .	12,131	15,308	8,494
Ferro-manganese .. .. .	6,149	2,760	7,014
Other ferro-alloys .. .. .	1,872	2,002	2,905
Sweden—			
Pig-iron .. .. .	46,891	77,518	88,624
Ferro-alloys .. .. .	2,746	2,617	3,353
Switzerland—			
Pig-iron and steel .. .. .	119,051	171,961	171,525
Ferro-alloys.. .. .	1,135	1,482	1,700
Algeria—			
Pig-iron and spiegeleisen ..	1,866	2,470	(a)
Ferro-alloys.. .. .	23	11	(a)
Belgian Congo—			
Pig-iron and steel .. .. .	997	463	(a)
Egypt—			
Pig-iron .. .. .	2,034	3,406	2,760
Réunion—			
Pig-iron .. .. .	34	18	20
Tunis—			
Pig-iron .. .. .	128	69	169
United States—			
Pig-iron .. .. .	132,568	140,694	147,763
Spiegeleisen .. .. .	7,529	5,260	13,828
Mexico—			
Pig-iron and scrap .. .. .	329	289	(a)
Ferro-manganese, contain- ing more than 25% Mn	692	249	(a)

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

Importing Country and Description.	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Argentina—			
Pig-iron .. .. .	17,032	25,445	(a)
Brazil (total imports)—			
Pig-iron .. .. .	2,230	2,554	4,352
Colombia—			
Pig-iron .. .. .	654	(a)	(a)
Peru—			
Pig-iron .. .. .	740	764	1,447
China—			
Pig-iron and kentledge ..	10,300	22,298	19,492
Dutch East Indies—			
Pig-iron .. .. .	4,010	4,280	(a)
French Indo-China—			
Pig-iron .. .. .	3,027	1,865	2,592
Japan (total imports)—			
Pig-iron .. .. .	465,478	560,225	643,725
Ferro-manganese .. .. .	3,343	2,088	2,429
Other ferro-alloys .. .. .	1,631	1,542	729
Korea—			
Pig-iron .. .. .	—	8,197	8,164
Philippine Islands—			
Pig-iron .. .. .	2,239	2,161	2,225

(a) Information not available.

## PRODUCTION OF STEEL INGOTS AND CASTINGS\*

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	9,097,100	8,519,700	9,636,200
Union of South Africa (i)	34,076	31,836	38,269
Canada .. .. .	907,638	1,240,214	1,379,688
India .. .. .	574,096	409,710	575,310
Australia .. .. .	448,165	410,031	(a)
Total ..	11,100,000	10,600,000	12,000,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	551,510	636,861	621,952
Belgium .. .. .	3,622,047	3,872,331	4,067,144
Czechoslovakia .. ..	1,662,000	1,941,917	2,110,000
France—			
Saar .. .. .	1,864,706	2,040,309	2,174,022
Other districts .. ..	8,175,070	9,349,496	9,517,000
Germany .. .. .	15,868,677	14,092,157	15,989,494
Hungary .. .. .	464,230	478,584	505,362
Italy .. .. .	1,570,567	1,928,585	2,114,633
Luxemburg .. .. .	2,431,491	2,526,664	2,659,579
Norway .. .. .	3,192	2,823	3,800
Poland .. .. .	1,224,228	1,414,352	1,354,981
Russia (years ended Sept. 30) .. .. .	3,531,157	4,087,909	4,647,900
Spain .. .. .	660,422	764,770	966,161
Sweden .. .. .	491,526	567,072	682,959
Mexico .. .. .	63,422	78,178	110,777
United States .. .. .	44,935,185	51,544,180	56,433,473
Japan .. .. .	1,701,090	1,923,247	(a)
China (estimated) .. ..	30,000	30,000	30,000
Total ..	88,900,000	97,300,000	106,000,000
WORLD'S TOTAL ..	100,000,000	107,900,000	118,000,000

\* For details see page 169.

(a) Information not available.

(i) Including rails, fishplates, etc.

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

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE.			
United Kingdom—			
Ingots—			
Open hearth, acid ..	2,519,100	2,170,500	2,403,800
basic ..	5,920,900	5,660,800	6,480,200
Converter, acid ..	445,200	475,900	528,700
Electric .. ..	48,600	49,900	56,600
Castings, electric ..	25,800	28,500	30,200
other .. ..	137,500	134,100	136,700
Canada—			
Ingots, open hearth ..	867,876	1,187,398	} 1,309,543
Electric .. ..	52	9,383	
Castings—			
Open hearth, basic ..	18,519	20,706	28,499
acid .. ..	—	—	7,278
Bessemer .. ..	2,151	2,041	2,746
Electric .. ..	19,040	20,686	31,662
India—			
Ingots—			
Open hearth, basic ..	241,278	181,341	252,153
Duplex steel (h) ..	329,268	225,762	319,423
Castings .. ..	3,550	2,607	3,734
FOREIGN COUNTRIES			
Austria—			
Ingots, open hearth ..	480,550	} 636,861	621,952
Bessemer .. ..	838		
special steel ..	61,123		
Castings .. ..	8,999		
Belgium—			
Ingots, open hearth ..	393,574	398,122	} 3,947,829
Bessemer basic ..	3,142,177	3,345,081	
electric .. ..	11,397	13,936	} 119,315
Castings, open hearth ..	18,956	29,241	
converter .. ..	55,618	57,025	
electric .. ..	325	285	
Czechoslovakia—			
Ingots, open hearth ..	(a)	1,570,108	(a)
Bessemer .. ..	(a)	257,754	(a)
electric .. ..	(a)	55,094	(a)
crucibles .. ..	(a)	71	(a)
Castings .. ..	(a)	44,972	(a)

(a) Information not available.

(h) 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	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
France—			
Saar—			
Open hearth, basic ..	433,824	473,093	535,805
Bessemer .. ..	1,408,578	1,536,718	1,616,406
Electric .. ..	6,334	11,384	(b)
Castings, acid ..	5,120	6,238	5,904
basic .. ..	10,850	12,876	15,907
Other districts—			
Ingots—			
Open hearth, acid ..	38,237	26,281	28,565
basic .. ..	2,125,663	2,507,536	2,653,230
Bessemer, acid ..	13,844	79,315	92,329
basic .. ..	5,878,856	6,480,024	6,574,010
Crucible .. ..	10,811	14,835	16,529
Electric .. ..	82,353	116,543	148,715
Castings .. ..	156,492	124,961	(c)
Germany—			
Ingots—			
Open hearth, acid ..	174,890	144,939	141,652
basic .. ..	8,563,267	7,226,599	8,093,985
Bessemer, acid ..	38	87	—
basic .. ..	6,797,392	6,438,464	7,277,673
Crucible .. ..	9,035	10,160	} 183,869
Electric .. ..	140,248	123,466	
Castings .. ..	183,807	148,442	292,315
Hungary—			
Open hearth .. ..	452,504	465,203	487,785
Crucible .. ..	33	—	—
Electric .. ..	11,693	13,381	17,577
Italy—			
Ingots, open hearth ..	1,361,709	1,689,399	(a)
electric .. ..	158,478	188,302	(a)
Castings, open hearth ..	12,152	7,262	(a)
Bessemer .. ..	440	472	(a)
electric .. ..	37,788	43,150	(a)
Luxemburg—			
Ingots, open hearth ..	} 2,419,612	23,112	22,180
Bessemer, basic .. ..		{ 2,491,292	2,628,065
Electric .. ..		6,417	9,333
Castings .. ..		5,462	(a)

(c) Included with ingots.



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

Producing Country	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Poland—			
Open hearth .. ..	1,189,634	1,365,812	1,307,000
Electric .. ..	—	16,709	18,028
Castings .. ..	36,907	31,631	29,800
Other steel .. ..	—	200	(a)
Russia (years ended Sept. 30)—			
Open hearth .. ..	3,185,942	} 4,087,909	4,647,900
Bessemer .. ..	335,155		
Electric .. ..	10,060		
Spain—			
Open hearth .. ..	453,939	534,535	(a)
Bessemer .. ..	197,805	213,374	(a)
Electric .. ..	8,678	16,861	(a)
Sweden—			
Open hearth .. ..	365,549	415,379	488,283
Bessemer .. ..	73,686	65,860	82,407
Crucible .. ..	1,187	1,303	1,347
Electric .. ..	51,104	84,530	110,922
United States—			
Ingots—			
Open hearth, acid ..	493,653	454,883	576,393
basic ..	36,750,387	42,818,557	46,644,206
Bessemer .. ..	6,153,703	6,591,745	7,091,680
Crucible .. ..	7,696	6,516	5,762
Electric .. ..	371,278	453,692	532,392
Castings—			
Open hearth, acid ..	430,414	458,590	544,076
basic ..	393,881	381,926	588,213
Bessemer .. ..	38,024	28,450	30,829
Crucible .. ..	1,340	1,253	883
Electric .. ..	294,809	348,568	419,036
Japan—			
Ingots—			
Open hearth .. ..	1,544,763	1,833,961	(a)
Bessemer .. ..	86,608	3,287	(a)
Crucible .. ..	1,157	1,479	(a)
Electric .. ..	26,098	36,753	(a)
Castings .. ..	42,464	47,638	(a)

(a) Information not available.

(b) Included with "open hearth".

## LEAD

## PRODUCTION OF LEAD ORE

(In terms of metal)

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	16,342	14,829	18,608
Kenya .. .. .	32	—	2
Nigeria .. .. .	253	25	42
Northern Rhodesia (smelter)	5,857	4,676	1,635
Southern Rhodesia ..	8	53	—
South-West Africa (d) ..	19,800	26,300	25,500
Union of South Africa ..	234	40	50
Canada .. .. .	139,028	150,869	145,769
India .. .. .	101,600	101,600	102,100
Australia .. .. .	200,174	179,334	194,006
<b>Total ..</b>	<b>480,000</b>	<b>480,000</b>	<b>490,000</b>
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	9,199	5,870	7,388
Bulgaria (estimated) ..	6,300	6,400	7,000
Czechoslovakia .. ..	3,972	4,077	(a)
France .. .. .	5,900	7,400	7,400
Germany .. .. .	56,641	56,673	59,509
Greece .. .. .	6,346	5,484	5,300
Italy .. .. .	30,049	30,942	28,000
Jugoslavia .. .. .	11,358	12,148	14,500
Norway .. .. .	6	—	32
Poland .. .. .	12,400	12,100	14,700
Portugal .. .. .	500	300	(a)
Rumania (smelter) ..	824	529	556
Russia (estimated) ..	1,200	2,000	7,000
Spain (smelter) .. ..	141,748	128,882	121,123
Sweden .. .. .	4,790	3,284	3,500
Algeria .. .. .	8,700	8,000	7,600
Egypt .. .. .	61	—	134
Morocco (French Zone) ..	5,100	4,100	(a)
Tunis .. .. .	19,000	17,000	18,000
Mexico .. .. .	270,713	(b) 232,751	(b) 244,478
United States (b) .. ..	594,187	559,958	578,100
Argentina (estimated) ..	2,400	3,000	(a)
Bolivia (exports) .. ..	15,064	12,505	14,725
Brazil (estimated) .. ..	450	90	(a)
Chile .. .. .	2,497	1,411	(a)
Peru .. .. .	14,703	30,909	(a)
China (estimated) .. ..	3,400	3,400	5,000
Dutch East Indies .. ..	36	(a)	(a)
French Indo-China .. ..	162	384	40
Japan (smelter) .. ..	3,340	3,595	3,500
Turkey (smelter) .. ..	6,427	8,950	6,500
<b>Total ..</b>	<b>1,240,000</b>	<b>1,160,000</b>	<b>1,190,000</b>
<b>WORLD'S TOTAL ..</b>	<b>1,720,000</b>	<b>1,640,000</b>	<b>1,680,000</b>

(a) Information not available.

(b) Amount estimated as recoverable.

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

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

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	6,035	8,502	10,668
Northern Rhodesia .. ..	5,857	4,676	1,635
South-West Africa (d) .. ..	3,479	4,925	2,758
Canada .. .. .	132,038	134,405	135,915
India .. .. .	65,967	78,344	80,233
Australia .. .. .	164,968	155,076	177,509
Total ..	378,000	386,000	409,000
<b>FOREIGN COUNTRIES</b>			
Austria .. .. .	7,958	8,006	6,465
Belgium (b) .. ..	90,262	84,898	(a)
Czechoslovakia .. ..	2,462	3,017	(a)
Finland .. .. .	400	(a)	(a)
France .. .. .	32,177	31,000	32,000
Germany (c) .. ..	100,240	111,714	(a)
Greece .. .. .	5,241	7,191	(a)
Italy .. .. .	23,398	20,885	22,310
Jugoslavia .. .. .	10,503	10,103	10,257
Norway (e) .. .. .	639	376	902
Poland .. .. .	29,107	35,872	35,020
Portugal .. .. .	58	82	93
Rumania .. .. .	824	529	556
Russia (years ended Sept.30)	1,198	2,032	(a)
Spain .. .. .	141,748	128,882	121,123
Sweden .. .. .	325	—	63
Egypt .. .. .	63	(a)	(a)
Tunis .. .. .	18,367	17,300	18,600
Mexico .. .. .	207,664	207,814	224,496
United States .. ..	639,914	597,615	638,988
Argentina .. .. .	7,675	8,308	(a)
Peru .. .. .	159	13,393	(a)
China (exports) .. ..	135	17	17
French Indo-China .. ..	4	10	(a)
Japan .. .. .	3,340	3,595	3,500
Korea .. .. .	811	707	328
Turkey .. .. .	6,427	8,950	6,500
Total ..	1,330,000	1,300,000	1,350,000
<b>WORLD'S TOTAL</b>	1,710,000	1,690,000	1,760,000

(a) Information not available.

(b) Includes base bullion.

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

1927 82,700 long tons.

1928 85,600 " "

1929 96,400 " "

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

(e) Including tin.

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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	22,716	19,214	15,421
Pig-lead .. .. .	4,656	5,599	4,868
Sheets and pipes .. .. .	6,434	5,144	4,954
Foil .. .. .	52	52	23
White lead, .. .. .	12,510	10,796	9,842
Litharge, red lead, etc. ..	10,545	12,596	12,431
Northern Rhodesia—			
Pig-lead .. .. .	4,966	4,257	2,054
South-West Africa—			
Pig-lead .. .. .	3,541	4,508	3,426
Copper-lead ore and matte	46,023	56,481	65,045
Union of South Africa—			
Ore and bullion .. .. .	314	16	—
Pigs, bars and sheets ..	4	4	10
Canada—			
Ore ( <i>Pb content</i> ) .. .. .	5,818	6,680	7,132
Pig-lead, etc. .. .. .	106,879	114,028	101,953
White lead .. .. .	41	487	23
Newfoundland (years ended June 30)—			
Concentrates .. .. .	—	—	10,501
British India—			
Pig-lead, bars, etc. ..	66,342	74,773	82,742
British Malaya (including re- exports)—			
Pig-lead .. .. .	179	118	139
Sheets and pipes .. .. .	14	35	56
Australia (including re-exports)			
Ores and concentrates ( <i>Pb content</i> ) .. .. .	35,233	21,092	1,795
Pig-lead .. .. .	143,686	147,346	149,050
Sheets and pipes .. .. .	940	801	613
White lead .. .. .	59	67	226
New Zealand—			
Pig and bar .. .. .	1	11	—

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	1,015	528	102
Pig-lead, alloys, and scrap	2,400	1,612	1,792
Sheets, bars, rods, etc. ..	197	200	235
White lead, etc. .. ..	2,233	2,436	2,056
Red lead .. .. .	1,239	1,674	1,320
Belgium-Luxemburg E. U.—			
Ore .. .. .	8,656	4,295	1,685
Pig-lead and scrap .. ..	31,519	23,491	20,697
Sheets, bars, pipes and wire	15,209	15,311	15,269
Red and white lead, etc.	6,000	3,925	4,929
Bulgaria—			
Ore .. .. .	3,462	571	3,710
Czechoslovakia—			
Ore .. .. .	912	1,015	1,416
Pig-lead, ashes, alloys and scrap .. .. .	410	614	337
Sheets, pipes, etc. .. ..	13	18	35
Red and white lead, etc. ..	146	34	18
Denmark—			
Pig-lead .. .. .	36	154	255
Plates, pipes and tubes ..	8	10	(a)
Red lead .. .. .	6	6	(a)
France—			
Ore, matte and slag .. ..	8,920	13,106	20,299
Pig-lead, argentiferous and antimonial .. .. .	1,195	695	1,115
Sheets, etc., and scrap ..	2,894	1,101	1,483
Red and white lead, etc. ..	690	908	927
Germany—			
Ore .. .. .	19,827	16,872	21,470
Pig-lead and scrap .. ..	15,359	18,695	22,008
Sheets, pipes, wire, etc. ..	5,756	5,305	5,901
Red and white lead .. ..	11,536	11,035	12,170
Greece—			
Argentiferous lead and galena	5,948	5,959	4,318

(a) Information not available.

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

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
Hungary—			
Pig-lead and scrap ..	125	276	334
Sheets, pipes and wire ..	145	76	82
Red and white lead, etc. ..	9	30	46
Italy—			
Ore .. .. .	14,431	18,837	12,506
Pig, scrap and alloyed ..	168	150	63
Sheets, pipes, wire and alloyed	96	121	134
Red and white lead ..	2,490	1,123	1,543
Yugoslavia—			
Ore .. .. .	1,844	2,326	3,328
Pig-lead and scrap ..	182	63	24
Plates and sheets ..	9,162	8,678	7,177
Latvia—			
Red and white lead ..	516	539	572
Netherlands—			
Pig-lead and scrap .. ..	836	1,023	1,247
Sheets and wire .. ..	430	387	303
Red and white lead ..	782	765	501
Norway—			
Pig-lead, ashes and scrap	615	849	333
Sheets, tubes and wire ..	128	188	95
Poland—			
Ore, slag, scrap, and dust ..	37	111	123
Pig-lead and bars .. ..	15,542	12,032	15,183
Sheets, tubes, wire, alloys, etc.	651	413	(a)
Red and white lead, etc. ..	902	1,195	959
Portugal—			
Ore .. .. .	640	401	600
Pig-lead .. .. .	12	—	5
Rumania—			
Ore .. .. .	463	2,710	(a)
Pig-lead and scrap ..	164	20	(a)
Spain (including re-exports)—			
Galena — non-argentiferous	1,476	1,957	3,647
do. argentiferous ..	2,397	4,765	1,519
Other ore .. .. .	1,210	118	375
Pig-lead—non-argentiferous	95,393	84,923	95,642
do. argentiferous ..	9,423	4,617	2,386
Pipes and sheets .. ..	2,218	1,058	1,041

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Ore .. .. .	5,122	5,889	13,328
Pig-lead and scrap .. .. .	789	1,853	1,355
Sheets, pipes and wire .. .. .	10	7	4
Red and white lead .. .. .	4	5	7
Switzerland—			
Ore, etc. .. .. .	617	712	593
Pig-lead, hard lead, scrap, etc.	539	771	1,082
Sheets and pipes .. .. .	7	59	70
Red and white lead, etc .. .. .	1	2	38
Algeria—			
Ore .. .. .	32,539	23,568	19,840
Pig lead and scrap .. .. .	301	291	243
Egypt—			
Pig-lead .. .. .	6	4	1
Morocco (French Zone)—			
Ore .. .. .	5,211	6,191	4,992
Scrap .. .. .	43	94	24
Tunis (including re-exports)—			
Ore .. .. .	8,782	3,499	1,068
Pig-lead and bars .. .. .	16,274	18,715	18,007
Mexico—			
Ores, etc. ( <i>Pb content</i> ) .. .. .	33,752	24,936	19,972
Pig-lead .. .. .	205,750	207,814	224,506
United States—			
Pig-lead, bars, etc. .. .. .	108,475	102,484	64,518
Red and white lead, etc. .. .. .	6,675	7,643	7,855
Argentina—			
Ore .. .. .	1,656	259	(a)
Bars, slag and ash .. .. .	137	41	(a)
Bolivia—			
Ore ( <i>Pb content</i> ) .. .. .	15,064	12,505	14,725
Brazil—			
Ore .. .. .	757	456	592

(a) Information not available.

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Ores .. .. .	6,385	3,277	3,121
Peru—			
Ore and concentrates ( <i>Pb.</i> <i>content</i> ) .. .. .	5,239	3,491	3,046
Pig-lead and scrap ( <i>do.</i> ) ..	1,125	12,287	18,432
China—			
Ore .. .. .	5,028	4,749	5,131
Lead .. .. .	135	17	17
Dutch East Indies—			
Lead scrap .. .. .	92	43	( <i>a</i> )
Formosa—			
Tea-lead .. .. .	13	8	( <i>a</i> )
French Indo-China—			
Ore and slag .. .. .	89	( <i>a</i> )	( <i>a</i> )
Japan—			
Tubes .. .. .	—	559	590
Red lead .. .. .	877	1,096	1,099
Korea—			
Pig-lead .. .. .	—	528	358
Turkey—			
Pig lead and scrap .. .. .	1,772	3,174	66

(*a*) Information not available.



## IMPORTS OF LEAD, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	1,570	4,120	3,456
Pig-lead .. .. .	273,783	237,188	265,131
Sheets and pipes .. .. .	12,666	8,798	8,106
Foil .. .. .	43	80	28
White lead .. .. .	11,003	11,466	10,911
Litharge, red lead, etc. ..	4,827	3,429	3,449
Irish Free State—			
Pig-lead .. .. .	985	946	1,245
Sheets and pipes .. .. .	909	869	790
Red and white lead, etc. ..	709	855	819
Gold Coast—			
Bars and sheets .. .. .	266	292	23
Kenya and Uganda—			
Bars and sheets .. .. .	25	75	45
Mauritius (total imports)—			
Pig-lead, sheets and pipes..	118	17	65
Nigeria—			
Ore .. .. .	56	146	93
Bars and sheets .. .. .	170	187	97
Sierra Leone—			
Bars and sheets .. .. .	10	8	10
Southern Rhodesia—			
Pig-lead, bars and sheets ..	28	90	29
Foil .. .. .	—	8	10
Red and white lead, acetate, etc. .. .. .	132	170	169
South-West Africa—			
Bars, sheets and pipes ..	14	11	16
Red and white lead, etc. ..	19	14	15
Union of South Africa (total imports)—			
Pig-lead, bars, sheets and pipes .. .. .	1,409	720	1,325
Foil .. .. .	284	113	97
Red and white lead, acetate etc. .. .. .	2,238	1,829	1,672
Canada—			
Pig-lead and scrap .. .. .	181	238	524
Bars, sheets and pipes, etc.	126	170	149
White lead .. .. .	312	349	136
Litharge, red lead, etc. ..	2,169	2,432	3,296
Newfoundland (years ended June 30)—			
Bars and sheets .. .. .	(£778)	(£1,021)	(£815)

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

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>			
British India (total imports)—			
Ore .. .. .	338	246	197
Pig-lead, bars, etc. ..	279	131	226
Sheets, pipes, etc. ..	2,174	2,084	1,986
Litharge, red and white lead, etc... .. .	4,507	3,064	3,445
British Malaya (total imports)—			
Pig-lead .. .. .	538	728	432
Pipes and sheets .. ..	91	133	159
Ceylon (total imports)—			
Pig-lead .. .. .	3,453	3,349	2,985
Sheets and pipes .. ..	45	76	75
Tea-lead .. .. .	1,331	1,535	1,837
Cyprus—			
Sheets and pipes .. ..	2	55	7
Palestine (total imports)—			
Pig-lead, sheets, pipes, etc.	41	42	60
Australia—			
Pig-lead .. .. .	—	2	—
Sheets and pipes .. ..	112	102	123
White lead and lead acetate	2,007	1,814	1,642
New Zealand—			
Pig-lead and bars .. ..	1,559	1,164	1,267
Sheets and pipes .. ..	1,214	845	555
White lead .. .. .	2,691	2,319	2,581
<b>FOREIGN COUNTRIES</b>			
Austria—			
Ore .. .. .	2,434	2,092	1,972
Pig-lead, alloys, and scrap	12,307	10,073	9,642
Bars, sheets, rods, etc. ..	69	77	98
Red and white lead, etc. ..	25	39	77
Belgium-Luxemburg E.U. —			
Ore .. .. .	81,057	58,280	41,754
Pig-lead and scrap .. ..	11,851	21,057	30,843
Sheets, bars, pipes and wire	108	125	518
Red and white lead, etc. ..	708	814	981
Bulgaria—			
Pig-lead and sheets.. ..	487	392	425
Tubes, etc. .. .. .	30	66	(a)

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

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>Czechoslovakia—</b>			
Ore .. .. .	89	54	504
Pig-lead, ashes, alloys and scrap .. .. .	10,334	13,074	13,069
Sheets and plates .. .. .	24	30	16
Rods, pipes, wire, etc. .. .. .	9	12	14
Red and white lead, etc. .. .. .	1,251	1,259	1,276
<b>Denmark—</b>			
Pig-lead .. .. .	3,343	4,214	5,792
Plates, pipes and tubes .. .. .	843	888	910
Red and white lead .. .. .	719	655	775
<b>Estonia—</b>			
Pig-lead and bars .. .. .	110	132	114
Sheets, plates, and pipes .. .. .	42	29	32
Red and white lead .. .. .	119	159	119
<b>Finland—</b>			
Pig-lead and scrap .. .. .	718	641	630
Sheets, pipes, wire and shot .. .. .	710	707	682
Red and white lead .. .. .	928	1,077	698
<b>France—</b>			
Ore, matte and slag .. .. .	44,402	31,924	34,052
Pig-lead, argentiferous and antimonial .. .. .	47,737	82,890	86,661
Sheets, etc. and scrap .. .. .	1,456	2,091	4,053
Red and white lead, etc. .. .. .	1,645	1,808	2,032
<b>Germany—</b>			
Ore .. .. .	44,806	48,025	78,282
Pig-lead and scrap .. .. .	154,389	146,192	134,653
Sheets, pipes, wire, etc. .. .. .	288	334	747
Red and white lead .. .. .	1,234	1,830	1,523
<b>Greece—</b>			
Lead .. .. .	1,359	1,156	1,219
<b>Hungary—</b>			
Ore .. .. .	10	—	—
Pig-lead and scrap .. .. .	5,903	6,851	4,766
Sheets, pipes and wire .. .. .	18	25	13
Red and white lead, etc. .. .. .	413	373	220

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Italy—			
Ore .. .. .	3,247	1,945	3,493
Pig-lead, scrap and alloyed	16,409	26,748	24,275
Sheets, pipes, wire and alloyed	71	111	46
Red and white lead ..	310	363	485
Jugoslavia—			
Pig-lead and scrap .. ..	216	226	105
Sheets, bars, rods, wire, etc.	62	187	106
Red and white lead, etc. ..	176	268	329
Latvia—			
Pig-lead, sheets and scrap	1,039	1,559	1,707
Red and white lead .. ..	46	36	31
Lithuania—			
Pig-lead, pipes and scrap ..	196	184	150
Red lead, etc. .. ..	53	39	63
Netherlands—			
Ore .. .. .	206	167	232
Pig-lead and scrap .. ..	16,838	18,294	20,809
Sheets and wire .. ..	2,826	3,260	5,031
Red and white lead, etc. ..	5,465	5,669	5,462
Norway—			
Pig-lead .. .. .	1,543	2,291	1,188
Bars, sheets, tubes and wire	411	1,385	636
Red and white lead .. ..	610	742	(a)
Poland—			
Ore, slag, scrap and dust ..	16,098	16,069	24,595
Pig-lead and bars .. ..	15	70	2
Sheets, tubes, wire, alloys, etc.	885	429	(a)
Red and white lead, etc. ..	711	828	896
Portugal—			
Sheets, wire, etc. .. ..	2,779	2,522	2,175
Rumania—			
Pig-lead and scrap .. ..	1,831	(a)	(a)
Plates, rods, tubes, etc. ..	859	(a)	(a)
Red and white lead, etc. ..	1,045	(a)	(a)
Russia (years ended Sept. 30)—			
Pig-lead, sheets and scrap..	30,257	48,981	31,355
Red lead .. .. .	(a)	279	339
Spain (total imports)—			
Ore .. .. .	2,811	1,679	715
Pig-lead and scrap .. ..	66	480	223
Sheets, pipes, wire and shot	79	224	36
Sweden—			
Pig-lead and scrap .. ..	5,593	7,007	8,365
Sheets, pipes and wire ..	1,916	1,720	2,182
Red and white lead .. ..	2,039	2,068	2,019

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Ores and waste .. ..	152	119	179
Pig-lead, hard lead, etc. ..	11,136	9,558	11,420
Sheets, pipes, wire, etc. ..	670	709	776
Red and white lead, etc. ..	291	274	202
Algeria—			
Ore and matte .. ..	4,653	4,096	4,056
Pig-lead, bars, sheets, etc. ..	1,181	1,159	2,234
Angola—			
Bars, sheets, etc. .. ..	19	28	(a)
Belgian Congo—			
Pig-lead .. .. .	1,069	689	(a)
Egypt—			
Pig-lead, sheets, pipes and scrap .. .. .	829	707	689
Red and white lead .. ..	381	320	292
Morocco—			
Pig-lead, sheets and wire ..	242	77	164
Mozambique—			
Bars and sheets .. ..	4	11	26
Réunion .. .. .	3	4	5
Togoland—			
Pig-lead and sheets .. ..	20	9	46
Tunis—			
Ore .. .. .	6,048	4,165	6,711
Pig-lead, bars and scrap ..	9	557	120
Sheets, pipes, etc. .. ..	174	191	173
Costa Rica (total imports)—			
Bars and sheets .. ..	9	(a)	(a)
Cuba (total imports)—			
Bars and pipes .. ..	248	356	(a)
Mexico—			
Pig-lead .. .. .	91	182	(a)
Sheets and pipes .. ..	148	165	(a)
Salvador .. .. .	60	62	(a)

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
<b>United States—</b>			
Ore and matte ( <i>Pb content</i> )	36,284	23,138	27,974
Bullion and base bullion ( <i>Pb content</i> ) ..	105,610	114,703	74,170
Pig-lead, bars and scrap ( <i>c</i> )	3,037	591	1,481
Red and white lead, etc. ..	191	133	117
<b>Argentina—</b>			
Ore .. .. .	5,129	6,499	(a)
Pig-lead, sheets and foil ..	5,605	8,071	(a)
Red and white lead.. ..	760	899	(a)
<b>Brazil (total imports)—</b>			
Pig-lead, sheets and pipes..	5,787	6,653	5,839
Red and white lead .. ..	730	879	873
<b>Chile—</b>			
Pig-lead .. .. .	2,163	686	1,012
Bars and sheets .. .. .	3,263	843	1,477
Red and white lead .. ..	200	141	26
<b>Colombia—</b>			
Red and white lead .. ..	101	(a)	(a)
<b>Peru—</b>			
Pig-lead, sheets, etc. .. ..	236	254	322
Litharge, etc. .. .. .	7	14	41
<b>Uruguay—</b>			
Pig-lead and pipes .. .. .	1,136	1,052	902
Red and white lead .. ..	177	105	166
<b>Venezuela—</b>			
Pig-lead, etc. .. .. .	35	172	(a)
<b>China—</b>			
Pig-lead and bars .. .. .	9,739	9,249	4,340
Tea and sheet-lead.. .. .	613	477	574
Pipes .. .. .	558	717	607
Red and white lead .. ..	1,359	1,869	1,537
<b>Dutch East Indies—</b>			
Pig-lead, scrap and alloyed	495	633	(a)
Sheets and alloyed .. .. .	755	912	(a)
Tea-lead .. .. .	856	606	(a)
Red and white lead .. ..	1,270	1,656	(a)
<b>Formosa—</b>			
Pig-lead and slabs .. .. .	91	76	(a)
Lead pigments .. .. .	3	5	(a)
<b>French Indo-China—</b>			
Pig-lead and hard lead .. ..	268	167	273
Sheets, etc. .. .. .	113	45	46
Red and white lead .. ..	260	300	431

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

Importing Country and Description.	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Japan (total imports)—			
Pig-lead .. .. .	54,620	61,157	59,595
Tea-lead .. .. .	134	145	152
Korea—			
Pipes .. .. .	—	560	578
Philippine Islands—			
Pig-lead and sheets ..	367	366	460
Red and white lead ..	450	418	535
Siam (total imports)—			
Pig-lead .. .. .	281	422	326
Syria—			
Lead .. .. .	288	(a)	(a)
Turkey—			
Pig-lead and scrap ..	808	960	1,004
Sheets, tubes and wire ..	179	200	(b) 105

(a) Information not available.

(b) First 9 months only.

(c) Total imports.

**MAGNESITE****PRODUCTION OF MAGNESITE**  
(Long tons)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
Union of South Africa—			
Crude .. .. .	1,810	1,457	1,682
Canada—			
Crude .. .. .	18,230	32,785	38,597
Caustic and dead-burnt	6,551	11,781	16,697
India—			
Crude .. .. .	19,638	24,406	23,497
Australia—			
Crude .. .. .	10,419	10,786	8,980
FOREIGN COUNTRIES			
Austria—			
Crude .. .. .	350,000	305,000	430,000
Calcined .. .. .	20,000	37,000	(a)
Dead-burnt .. .. .	78,000	69,000	88,400
Bricks .. .. .	45,000	41,000	45,000
Czechoslovakia (exports less imports) (b)—			
Crude .. .. .	11,550	8,278	10,027
Calcined .. .. .	34,132	37,018	42,616
Greece—			
Crude .. .. .	83,150	102,772	(a)
Caustic .. .. .	27,000	25,787	(a)
Dead-burnt .. .. .	1,343	128	(a)
Italy—			
Crude .. .. .	16,047	11,505	(a)
Jugoslavia (Serbia only)—			
Crude .. .. .	1,653	6,168	5,777
Norway—			
Crude .. .. .	1,073	917	1,012
Calcined (exports) ..	262	314	503
Bricks (exports) ..	269	387	362
Russia (years ended Sept. 30)			
Crude .. .. .	104,900	118,000	130,614
Caustic .. .. .	2,933	(a)	(a)
Dead-burnt .. .. .	28,924	(a)	(a)
Bricks .. .. .	13,900	(a)	(a)
United States—			
Crude .. .. .	108,473	113,571	167,554
Caustic (sales) .. ..	12,402	11,884	10,170
Dead-burnt (sales) ..	35,902	40,384	70,268
Turkey—			
Crude .. .. .	—	—	281

Magnesite is produced in Manchuria ; the latest production figure available being 14,000 long tons in 1925.

(a) Information not available.

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



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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Magnesium .. .. .	9	9	12
Chloride, sulphate, etc. ..	3,393	3,437	3,647
Canada—			
Calcined and dead-burnt..	1,744	1,640	4,714
FOREIGN COUNTRIES			
Austria—			
Crude .. .. .	265	1,901	1,400
Caustic .. .. .	15,214	22,811	27,032
Dead-burnt .. .. .	79,618	74,424	88,834
Bricks .. .. .	39,144	43,686	54,581
Chloride .. .. .	48	71	50
Sulphate .. .. .	3	3	7
Belgium-Luxemburg E.U.—			
Calcined .. .. .	30	302	54
Chloride .. .. .	117	25	5
Sulphate .. .. .	142	35	17
Czechoslovakia—			
Crude .. .. .	11,572	8,298	10,094
Calcined .. .. .	37,315	40,238	46,134
Chloride and sulphate ..	9	63	23
Denmark—			
Crude .. .. .	1	—	(a)
Chloride, etc. .. .. .	9	9	(a)
France—			
Calcined .. .. .	31	49	25
Carbonate .. .. .	17	100	103
Chloride .. .. .	965	2,736	2,337
Sulphate .. .. .	67	43	60
Germany—			
Crude and calcined .. ..	4,079	4,900	5,517
Carbonate .. .. .	577	726	637
Chloride .. .. .	35,740	36,007	42,320
Sulphate .. .. .	67,007	92,458	99,276
Greece—			
Crude .. .. .	7,567	13,258	3,469
Calcined .. .. .	5,673	16,305	9,702
Hungary—			
Crude .. .. .	11	7	—
Chloride and sulphate ..	30	62	(a)

(a) Information not available.

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Italy—			
Caustic, impure .. ..	495	173	293
do. pure .. ..	79	136	137
Carbonate .. ..	143	178	192
Chloride and sulphate .. ..	6	6	3
Jugoslavia .. ..	30	2,320	1,301
Netherlands—			
Crude .. ..	2	20	8
Magnesia .. ..	13,649	14,968	17,321
Norway—			
Crude .. ..	—	39	20
Calcined .. ..	262	314	503
Bricks .. ..	269	387	362
Poland—			
Sulphate .. ..	—	14	11
Russia (years ended Sept. 30)—			
Dead-burnt .. ..	2,409	8,239	16,188
Sweden—			
Chloride and sulphate .. ..	23	10	4
United States—			
Magnesia and manufactures	2,479	2,615	2,794
Turkey—			
Dead-burnt .. ..	20	33	—

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

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Crude .. .. .	11,107	13,883	11,585
Caustic and dead-burnt .. .. .	21,518	17,123	27,276
Magnesium .. .. .	26	68	149
Chloride, sulphate, etc. .. .. .	28,549	33,390	40,016
<b>Union of South Africa—</b>			
Carbonate and sulphate .. .. .	284	440	438
Chloride .. .. .	394	429	441
<b>Canada —</b>			
Crude .. .. .	148	196	111
Oxide .. .. .	131	332	949
Sulphate .. .. .	2,146	2,240	2,290
Bricks .. .. .	( <i>£24,374</i> )	( <i>£28,929</i> )	( <i>£52,449</i> )
<b>British India (total imports)—</b>			
Chloride .. .. .	2,151	1,343	1,895
Sulphate .. .. .	2,994	2,161	2,230
Other salts .. .. .	117	54	475
<b>Australia—</b>			
Oxide .. .. .	190	184	244
Carbonate .. .. .	196	232	182
Chloride .. .. .	310	229	387
Sulphate .. .. .	790	1,413	1,452
<b>New Zealand—</b>			
Sulphate .. .. .	144	201	187
<b>FOREIGN COUNTRIES</b>			
<b>Austria—</b>			
Caustic .. .. .	72	108	117
Dead-burnt .. .. .	7	23	8
Bricks .. .. .	759	2,423	1,149
Carbonate .. .. .	213	226	203
Chloride .. .. .	1,266	1,645	2,227
Sulphate .. .. .	134	96	192
<b>Belgium-Luxemburg E.U.—</b>			
Crude .. .. .	76	47	329
Calcined .. .. .	1,098	1,052	978
Magnesium .. .. .	17	3	12
Carbonate .. .. .	68	44	86
Chloride .. .. .	3,115	3,969	3,892
Sulphate .. .. .	4,756	5,376	5,510
<b>Bulgaria—</b>			
Sulphate .. .. .	37	32	( <i>a</i> )

(*a*) Information not available.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Crude .. .. .	22	20	67
Calcined .. .. .	3,183	3,210	3,518
Oxide, impure .. .. .	2,277	4,528	4,901
Chloride .. .. .	3,208	5,183	5,900
Sulphate .. .. .	2	2	1,025
Denmark—			
Crude .. .. .	374	370	419
Oxide .. .. .	94	74	89
Chloride .. .. .	390	310	424
Sulphate .. .. .	254	164	193
Estonia—			
Calcined .. .. .	71	79	17
Chloride and sulphate .. .. .	84	174	111
Finland—			
Magnesite and witherite .. .. .	657	778	835
Dead-burnt .. .. .	14	23	24
Carbonate .. .. .	5	20	45
Chloride .. .. .	639	766	666
Sulphate .. .. .	77	146	100
France—			
Crude .. .. .	120	3,113	2,365
Calcined .. .. .	184	724	1,954
Magnesium .. .. .	55	38	61
Carbonate .. .. .	510	827	989
Chloride .. .. .	1,164	2,761	2,552
Sulphate .. .. .	773	3,582	5,443
Germany—			
Crude and calcined .. .. .	57,717	59,430	78,861
Carbonate .. .. .	84	50	71
Sulphate .. .. .	48	—	66
Hungary—			
Magnesite .. .. .	13,814	14,318	18,656
Oxide .. .. .	35	25	53
Chloride .. .. .	979	620	(a)
Sulphate .. .. .	886	837	853
Italy—			
Calcined, impure .. .. .	2,166	2,302	2,752
do, pure .. .. .	1	4	1
Carbonate .. .. .	21	29	20
Chloride .. .. .	945	1,261	1,426
Sulphate .. .. .	6,276	17,922	4,855

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Crude .. .. .	1	—	—
Calcined .. .. .	1,743	1,825	2,110
Chloride and sulphate .. .. .	(a)	854	707
Oxide and carbonate .. .. .	(a)	103	115
Latvia—			
Crude and calcined .. .. .	104	119	129
Chloride and sulphate .. .. .	119	181	129
Lithuania—			
Crude .. .. .	4	—	4
Calcined .. .. .	42	77	115
Salts .. .. .	603	129	120
Netherlands—			
Crude .. .. .	505	938	1,207
Magnesia .. .. .	14,668	15,815	18,762
Norway—			
Crude .. .. .	—	—	1,513
Bricks .. .. .	—	—	102
Chloride .. .. .	293	286	519
Poland—			
Crude .. .. .	3,369	3,213	(a)
Magnesia .. .. .	7	5	(a)
Chloride .. .. .	1,044	1,060	(a)
Sulphate .. .. .	598	1,170	4,306
Portugal—			
Crude and calcined .. .. .	95	141	101
Carbonate .. .. .	7	11	11
Sulphate .. .. .	445	551	565
Chloride .. .. .	87	93	73
Rumania—			
Calcined .. .. .	23	(a)	(a)
Chloride .. .. .	154	(a)	(a)
Sulphate .. .. .	720	(a)	(a)
Spain (total imports)—			
Carbonate .. .. .	192	211	126
Chloride and sulphate .. .. .	743	1,293	608
Oxide .. .. .	15	42	11
Sweden—			
Magnesite and witherite .. .. .	1,175	1,313	2,159
Calcined .. .. .	62	85	114
Chloride .. .. .	808	828	1,584
Sulphate .. .. .	548	567	376
Switzerland—			
Calcined .. .. .	1,953	2,986	2,300

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Sulphate .. .. .	21	13	22
Egypt—			
Sulphate .. .. .	351	486	273
United States—			
Crude .. .. .	765	658	} 6,072
Calcined .. .. .	8,478	4,888	
Dead-burnt .. .. .	44,529	51,129	41,413
Oxide .. .. .	116	134	211
Carbonate, precipitated ..	156	126	231
Chloride .. .. .	3,654	2,589	1,470
Sulphate .. .. .	5,188	4,669	6,045
Argentina—			
Calcined .. .. .	52	90	(a)
Carbonate .. .. .	65	69	(a)
Sulphate .. .. .	600	431	(a)
Brazil (total imports)—			
Sulphate .. .. .	1,004	1,081	641
Chile—			
Crude .. .. .	227	153	353
Chloride .. .. .	130	51	126
Carbonate .. .. .	10	24	} 10
Oxide .. .. .	4	23	
Sulphate .. .. .	397	204	525
Colombia—			
Salts .. .. .	89	(a)	(a)
Peru—			
Crude .. .. .	1,095	1,281	519
Salts .. .. .	21	27	46
Venezuela—			
Sulphate .. .. .	31	25	(a)
French Indo-China—			
Calcined .. .. .	27	44	31
Carbonate and chloride ..	25	(a)	(a)
Japan (excluding Kobe)—			
Crude .. .. .	13,272	10,657	(a)
Magnesia .. .. .	703	68	(a)
Turkey—			
Dead-burnt .. .. .	139	230	141
Salts .. .. .	121	148	245

(a) Information not available.

## MANGANESE

PRODUCTION OF MANGANESE ORE  
(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. .. .	1,509	235	—
Gold Coast (exports) .. .. .	369,205	324,499	408,224
Northern Rhodesia .. .. .	694	1,792	1,849
Union of South Africa .. .. .	1,279	—	9,202
Cyprus .. .. .	16	—	—
Canada (bog ore) .. .. .	—	344	268
India .. .. .	1,129,353	978,449	994,279
Australia .. .. .	1,489	167	233
Total .. .. .	1,500,000	1,300,000	1,400,000
<b>FOREIGN COUNTRIES</b>			
Austria ( <i>k</i> ) .. .. .	32,436	38,938	38,437
Bulgaria .. .. .	7	—	—
Czechoslovakia .. .. .	106,664	97,867	( <i>a</i> )
France .. .. .	5,502	3,059	1,071
Germany .. .. .	30	207	467
Greece .. .. .	7,955	1,063	( <i>a</i> )
Hungary .. .. .	17,000	21,817	18,743
Italy .. .. .	9,601	10,112	9,400
Jugoslavia .. .. .	1,940	2,618	4,424
Portugal .. .. .	483	—	—
Rumania .. .. .	10,205	30,773	34,485
Russia (years ended Sept. 30)			
Nikopol—			
Crude ore .. .. .	905,171		
Washed ore .. .. .	464,690	722,814	1,200,000
Tchiaturi ( <i>b</i> )—			
Crude ore .. .. .	629,117		
Washed ore .. .. .	365,538	( <i>m</i> )	( <i>m</i> )
Urals—			
Crude ore .. .. .	2,201	( <i>a</i> )	( <i>a</i> )

(*a*) Information not available.

(*b*) Including 20,220 tons in 1926/7 of concentrates produced from waste dumps.

(*k*) Manganese content of manganese ore and manganiferous iron ore.

(*m*) Included with Nikopol.

PRODUCTION OF MANGANESE ORE (*Cont.*)

Producing Country	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Spain .. .. .	36,288	13,488	16,300
Sweden .. .. .	16,557	15,541	23,000
Egypt .. .. .	150,431	135,330	188,453
Morocco (French Zone) ..	2,401	2,293	(a)
Tunis .. .. .	2,024	2,500	112
Cuba .. .. .	(g) 127,704	(g) 85,698	(a)
Porto Rico (exports) ..	1,624	1,523	(a)
Mexico .. .. .	769	(a)	(a)
United States ( <i>l</i> ) .. ..	44,741	46,860	60,379
Argentina .. .. .	226	138	(a)
Brazil .. .. .	238,004	314,774	288,685
Chile .. .. .	7,567	9,046	3,016
China (exports) .. ..	45,617	42,648	41,219
Japan .. .. .	27,125	17,413	(a)
Dutch East Indies .. ..	14,727	24,066	(a)
Portuguese India .. ..	2,376	4,098	(a)
New Caledonia .. ..	128	(a)	(a)
Turkey .. .. .	—	59	148
<b>Total (<i>j</i>) ..</b>	<b>1,700,000</b>	<b>1,600,000</b>	<b>2,200,000</b>
<b>WORLD'S TOTAL (<i>j</i>)</b>	<b>3,200,000</b>	<b>2,900,000</b>	<b>3,600,000</b>

(a) Information not available.

(g) Exports.

(j) See notes (*k*) and (*l*).

(l) Shipments, excluding ore containing 10–35 per cent. Mn, which is included with iron-ore, as follows:—

1926 .. ..	364,312 long tons
1927 .. ..	148,291 " "
1928 .. ..	90,581 " "



## EXPORTS OF MANGANESE ORE, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ferro-manganese and spiegeleisen .. ..	58,230	56,643	88,173
Gold Coast—			
Ore .. .. .	369,205	324,499	408,224
Canada—			
Ferro-manganese and other ferro-alloys .. ..	21,244	24,813	34,044
British India—(d)			
Ore .. .. .	681,443	658,567	779,550
Ferruginous manganese ore	12,250	11,860	22,560
Ferro-manganese .. ..	3,042	3,108	4,198
Australia (including re- exports)—			
Ore .. .. .	31	—	80
New Zealand—			
Ore .. .. .	5	—	—
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Ore .. .. .	779	385	420
Czechoslovakia—			
Ore .. .. .	468	—	—
France—			
Ore .. .. .	1,866	3,163	3,115
Ferro-manganese .. ..	1,174	1,113	3,118
Manganese dioxide ..	60	123	233
Germany—			
Ore .. .. .	563	810	1,392
Ferro-manganese .. ..	8,406	17,721	19,824
Hungary—			
Ore .. .. .	9,760	13,729	(a)
Italy—			
Ore, including manganiferous iron ore .. .. .	907	—	1,581
Ferro-manganese .. ..	20	229	1,155
Ferro-silicon-manganese ..	1,438	1,725	3,408
Jugoslavia—			
Ore .. .. .	561	1,838	148
Ferro-manganese .. ..	95	107	103

(a) Information not available.

(d) Excluding manganese ore mined in British India, but exported via the Portuguese port of Mormugao—1927, 162,378 tons, 1928, 175,577 tons.

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Ore .. .. .	1,129	1,588	1,266
Norway—			
Ferro-manganese .. ..	69,871	76,089	67,892
Poland—			
Ferro-manganese .. ..	5,323	5,316	4,410
Russia (years ended Sept. 30)			
Ore .. .. .	772,293	491,003	885,755
Spain (including re-exports)—			
Ore .. .. .	78,937	41,783	61,545
Sweden—			
Ore .. .. .	315	469	484
Ferro-manganese and spie- geleisen .. .. .	431	906	871
Ferro-manganese-silicon and ferro-silicon .. ..	19,137	21,646	20,636
Algeria—			
Ore .. .. .	3,757	1,453	443
Morocco (French Zone)—			
Ore .. .. .	2,653	2,110	235
Tunis (including re-exports)—			
Ore .. .. .	1,962	1,732	1,159
Cuba—			
Ore .. .. .	127,704	85,698	(a)
United States—			
Ferro-manganese and spie- geleisen .. .. .	1,641	9,440	1,574
Brazil—			
Ore .. .. .	238,004	356,114	288,685
Chile—			
Ore .. .. .	7,567	9,046	3,065
China—			
Ore .. .. .	45,617	42,648	41,219
Dutch East Indies—			
Ore .. .. .	15,043	14,663	15,236
Japan—			
Ore .. .. .	1,410	1,547	1,735
New Caledonia—			
Ore .. .. .	128	(a)	(a)

## IMPORTS OF MANGANESE ORE, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	198,421	205,938	289,183
Ferro-manganese and spiegeleisen .. .. .	8,089	5,795	6,251
Union of South Africa—			
Ferro-manganese .. .. .	327	318	445
Manganese dioxide .. .. .	13	21	36
Canada—			
Ferro-alloys .. .. .	3,406	5,435	7,560
Ore (oxide) .. .. .	62,402	95,038	88,517
Australia—			
Ore .. .. .	158	118	275
New Zealand—			
Ore .. .. .	14	—	—
FOREIGN COUNTRIES			
Austria—			
Ore .. .. .	65	74	401
Belgium-Luxemburg E. U.—			
Ore .. .. .	265,107	262,938	323,476
Czechoslovakia—			
Ore .. .. .	2,459	25,787	27,304
Denmark—			
Ore .. .. .	1,339	1,242	(a)
Finland—			
Ore .. .. .	88	82	103
France—			
Ore .. .. .	649,170	729,473	787,868
Ferro-manganese .. .. .	26,093	15,559	10,920
Manganese dioxide .. .. .	200	288	48
Germany—			
Ore .. .. .	367,141	279,750	384,118
Ferro-manganese .. .. .	4,931	4,300	3,122
Hungary—			
Ore .. .. .	341	13	(a)
Italy—			
Ore, including manganiferous iron ore .. .. .	50,792	93,860	105,098
Ferro-manganese .. .. .	102	144	393
Ferro-silicon-manganese .. .. .	2	32	68

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>			
Jugoslavia—			
Ore .. .. .	7	56	21
Ferro-manganese .. ..	764	1,749	2,148
Netherlands—			
Ore .. .. .	6,654	5,957	13,441
Norway—			
Ore .. .. .	147,411	137,917	158,582
Poland—			
Ore .. .. .	77,791	40,726	55,116
Ferro-manganese .. ..	736	1,248	7
Manganese dioxide ..	111	95	91
Spain (total imports)—			
Ore .. .. .	3,216	13,263	7,593
Ferro-manganese .. ..	6,149	2,760	7,014
Sweden—			
Ore .. .. .	293	347	477
Ferro-manganese and spie- geleisen .. .. .	1,906	1,441	1,674
Ferro-manganese-silicon and ferro-silicon .. ..	108	319	162
Algeria—			
Ore .. .. .	3,970	2,194	1,020
Mexico—			
Ferro-manganese .. ..	692	249	(a)
United States—			
Ore ( <i>Mn content</i> ) .. ..	308,594	207,808	323,415
Ferro-manganese and other alloys ( <i>Mn content</i> ) ..	34,018	47,550	62,185
Argentina—			
Dioxide and borate of manganese .. .. .	62	54	(a)
Japan (total imports)—			
Ferro-manganese .. ..	3,343	2,063	(a)

(a) Information not available.

## MICA

 PRODUCTION OF MICA  
 (Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
Kenya .. .. .	—	(1,190 lb.)	2
Northern Rhodesia .. .. .	8	4	3
Southern Rhodesia .. .. .	183	183	169
South West Africa (waste) .. .. .	—	—	31
Tanganyika territory .. .. .	42	33	29
Union of South Africa (b) .. .. .	1,660	3,572	1,525
Canada—			
Rough cobbed .. .. .	114	—	—
Thumb trimmed .. .. .	198	41	43
Splittings .. .. .	37	11	10
Scrap .. .. .	2,096	3,145	3,699
Ceylon (exports) .. .. .	—	—	(12 cwt.)
India (exports)—			
Sheet .. .. .	713	621	890
Splittings .. .. .	3,161	4,153	4,914
Australia .. .. .	5	12	27
FOREIGN COUNTRIES			
Norway (exports)—			
Sheet .. .. .	4	2	—
Scrap .. .. .	4	82	58
Sweden .. .. .	10	12	(a)
Russia (years ended Sept. 30)—			
Run of mine .. .. .	1,496	(a)	(a)
Sheets .. .. .	85	(a)	(a)
Madagascar (exports)—			
Muscovite .. .. .	37	33	28
Phlogopite, etc. .. .. .	498	592	392
United States (sales)—			
Sheets (uncut) .. .. .	675	751	908
Scrap .. .. .	5,607	6,929	5,583
Argentina .. .. .	104	118	(a)
Brazil .. .. .	39	74	(a)
Korea .. .. .	(a)	45	41
Guatemala .. .. .	7	13	(a)

(a) Information not available.

(b) Nearly all scrap.

The following amounts of lithium mica were produced :—

	1927	1928	1929	
Southern Rhodesia .. .. .	19	—	—	long tons.
France .. .. .	300	(a)	(a)	“ ”
Germany (Bavaria) .. .. .	596	265	(a)	“ ”
Portugal .. .. .	379	336	740	“ ”

EXPORTS OF MICA  
(Domestic Produce)

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Sheet and splittings .. ..	16	2	15
Kenya .. ..	—	—	2
Southern Rhodesia .. ..	142	198	171
Tanganyika Territory .. ..	35	40	27
Union of South Africa .. ..	321	3,245	844
Canada—			
Rough-cobbed and thumb- trimmed .. ..	147	28	1
Splittings .. ..	142	75	81
Scrap and waste .. ..	4,050	3,880	4,276
British India—			
Sheet .. ..	713	621	890
Splittings .. ..	3,161	4,153	4,914
Ceylon .. ..	—	—	12 cwt.
FOREIGN COUNTRIES			
Austria .. ..	14	7	4
Belgium-Luxemburg E.U.—			
Sheet and plate .. ..	1	13	16
France—			
Unmanufactured .. ..	93	181	334
Sheet, plate and manufactures	179	269	225
Germany—			
Unmanufactured .. ..	39	61	67
Italy .. ..	2	5	6
Norway—			
Sheet .. ..	4	2	—
Scrap .. ..	4	82	58

EXPORTS OF MICA (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Russia (years ended Sept. 30)	31	105	25
Sweden (including manufactures)	16	11	22
Switzerland (including asbestos)	34	6	23
Madagascar .. .. .	536	625	420
United States (including manu- factures) .. .. .	1,280	1,635	2,762
Argentina .. .. .	75	52	(a)
Brazil .. .. .	39	43	44

(a) Information not available.

## IMPORTS OF MICA

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Sheet and splittings .. ..	1,204	1,247	1,088
Ground .. .. .	487	578	749
Union of South Africa—			
Micanite sheets .. .. .	(£856)	(£493)	(£1,211)
Newfoundland (years ended June 30) .. .. .	(£24)	(£51)	(£88)
British India (total imports)—			
Sheet .. .. .	78	17	63
Splittings .. .. .	4	22	2
Australia .. .. .	7	—	(8 cwt.)
FOREIGN COUNTRIES			
Austria .. .. .	47	21	61
Belgium-Luxemburg E.U.—			
Crude sheet and plate .. ..	91	49	68
Cut sheet and plate .. ..	22	34	37
Denmark .. .. .	20	21	114
France—			
Unmanufactured .. ..	739	952	910
Sheet, plate and manufactures	242	278	251
Germany—			
Unmanufactured .. ..	995	1,011	969
Italy—			
Unmanufactured and sheet ..	134	166	159
Netherlands .. .. .	3	4	32
Poland .. .. .	13	29	24
Russia (years ended Sept. 30) ..	7	6	8
Spain (total imports)—			
Sheet .. .. .	8	7	8



IMPORTS OF MICA (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Sweden—			
Mica and manufactures ..	82	100	73
Switzerland (including asbestos)	1,132	1,055	1,298
United States—			
Unmanufactured .. ..	338	224	588
Cut, splittings and manufactures	1,094	1,416	2,541
Chile .. .. .	2	2	2

## MOLYBDENUM

### PRODUCTION OF MOLYBDENUM ORE

(In cwt. of concentrates)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
Canada (MoS <sub>2</sub> ) .. ..	—	—	144
Australia .. .. .	20	40	10
FOREIGN COUNTRIES			
Austria .. .. .	1	96	77
Italy .. .. .	6	—	(a)
Norway (MoS <sub>2</sub> ) .. ..	2,441	3,287	3,478
Russia (years ended Sept. 30) .. .. .	74	413	(a)
French Morocco .. ..	83	40	(a)
United States (sales. Mo content) .. .. .	20,411	29,725	34,863
Chile .. .. .	29	—	—
Korea .. .. .	31	609	582

(a) Information not available.

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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
Canada—			
Ore (Mo content) .. ..	9	—	—
Australia (including re-exports)—			
Ore .. .. .	655	40	585
FOREIGN COUNTRIES			
France—			
Molybdic acid and molybdates	22	24	33
Norway—			
Ore .. .. .	4,722	4,462	5,944
Morocco (French Zone)—			
Ore .. .. .	69	18	29
Chile—			
Ore .. .. .	29	—	—
Peru—			
Ore (Mo content) .. ..	19	—	—

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

Importing Country and Description.	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore .. .. .	5,297	4,308	5,336
FOREIGN COUNTRIES			
France—			
Molybdic acid and molybdates	41	79	73
Jugoslavia—			
Ore .. .. .	(a)	11	—
United States—			
Mo content of—			
Ore .. .. .	112	(a)	(a)
Ferro-molybdenum, etc. ..	15	5	15

(a) Information not available.

**MONAZITE**

## PRODUCTION OF MONAZITE

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
India .. .. .	280	103	180

## EXPORTS OF MONAZITE, ETC.

*(Domestic Produce)*

Exporting Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE				
United Kingdom—				
Thorium nitrate .. .. .	Cwt.	22	5	—
Gas mantles .. .. .	Gross	19,839	18,832	26,317
British India—				
Monazite sand .. .. .	Long ton	503	80	312
British Malaya (including re-exports)—				
Gas mantles .. .. .	Gross	(a)	(a)	130
Ceylon—				
Monazite sand .. .. .	Long ton	—	85	—
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Gas mantles .. .. .	Cwt.	654	220	195
France—				
Thorium nitrate and other rare-earth salts .. .. .	Cwt.	191	114	98
Gas mantles .. .. .	Gross	1,799	1,729	1,750
Germany—				
Gas mantles .. .. .	Gross	131,500	123,300	121,300
Italy—				
Gas mantles .. .. .	Gross	3,853	1,000	1,264
Netherlands—				
Gas mantles .. .. .	Cwt.	368	69	(b) 28
Sweden—				
Gas mantles .. .. .	Cwt.	198	177	184
Switzerland—				
Gas mantles .. .. .	Cwt.	24	2	1
United States—				
Gas mantles .. .. .	Gross	16,824	20,076	26,416

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 numbers in gross.

## IMPORTS OF MONAZITE, ETC.

(Less Re-exports)

Importing Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE				
United Kingdom—				
Monazite sand .. ..	Long ton	(j)18	150	292
Thorium nitrate .. ..	Cwt.	555	554	594
Gas mantles .. ..	Gross	27,943	10,146	9,739
Irish Free State—				
Gas mantles .. ..	Gross	3,487	3,541	3,239
Canada—				
Gas mantles .. ..	£	9,966	10,451	9,869
Thorium nitrate, etc. .. ..	£	8,445	1,882	530
British Malaya (total imports)—				
Gas mantles .. ..	Gross	(a)	(a)	7,176
Ceylon—				
Gas mantles .. ..	Gross	1,515	2,201	1,856
Australia—				
Gas mantles .. ..	Gross	7,600	8,282	7,548
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Gas mantles .. ..	Cwt.	169	140	200
France—				
Thorium nitrate and other rare-earth salts .. ..	Cwt.	22	43	35
Gas mantles .. ..	Gross	965	785	1,125
Germany—				
Monazite sand .. ..	Long ton	18	144	866
Gas mantles .. ..	Gross	—	160	69
Hungary—				
Gas mantles .. ..	Cwt.	28	20	10
Italy—				
Gas mantles .. ..	Gross	114	124	83
Thorium and cerium salts .. ..	Cwt.	42	21	20
Jugoslavia—				
Gas mantles .. ..	Gross	2,016	1,006	1,463
Netherlands—				
Gas mantles .. ..	Cwt.	887	943	(b) 10,000
Poland—				
Gas mantles .. ..	Cwt.	38	43	(a)
Portugal—				
Gas mantles .. ..	Cwt.	(a)	37	19

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

Importing Country and Description.	Unit.	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )				
Sweden—				
Thorium nitrate and other rare-earth salts .. .. .	Cwt.	97	92	103
Gas mantles .. .. .	do.	14	11	7
Switzerland—				
Gas mantles .. .. .	Cwt.	7	8	10
Egypt—				
Gas mantles .. .. .	£	18,049	15,299	18,012
United States—				
Monazite sand and thorite ..	Long ton	533	395	515
Thorium nitrate .. .. .	Cwt.	91	111	87
Gas mantles .. .. .	Gross	7,403	6,014	30 lb.
Brazil (total imports)—				
Gas mantles .. .. .	Cwt.	22	18	17

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.

(j) Excess of re-exports.

## NICKEL

### PRODUCTION OF NICKEL ORE

(In terms of metal)

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Canada .. .. .	29,821	43,194	49,230
India (b) .. .. .	254	727	3,065
Australia .. .. .	86	—	85
Total .. .. .	30,200	43,900	52,400
<b>FOREIGN COUNTRIES</b>			
Greece .. .. .	25	648	(a)
Norway .. .. .	160	403	431
United States (i) .. .. .	768	466	306
New Caledonia .. .. .	(c)3,163	3,442	(c) 4,093
Total .. .. .	4,000	5,000	5,000
<b>WORLD'S TOTAL</b>	<b>34,000</b>	<b>49,000</b>	<b>57,000</b>

(a) Information not available.

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

(i) Nickel content of salts and nickel produced as a by-product in the electrolytic refining of copper.

(c) Exports.

\* According to later information this figure relates to speiss, the metal content being 830 tons.



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

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Cubes, rondels, etc. . .	7,919	8,133	8,124
Plates, sheets and anodes..	141	325	288
Ingots, sheets, etc. (alloyed)	673	873	731
Nickel oxide.. . . .	5	5	9
Canada—			
Ore, matte, etc. ( <i>Ni content</i> )	16,276	16,237	13,228
Nickel, fine . . . . .	12,953	22,852	30,539
Nickel oxide ( <i>Ni content</i> ) . .	2,320	4,289	5,179
<b>FOREIGN COUNTRIES</b>			
Austria—			
Crude nickel and scrap . .	692	458	249
Plates, sheets, and anodes	195	274	234
Belgium-Luxemburg E.U.—			
Ingots, etc. . . . .	574	564	251
Sheets, wire, etc. . . . .	1,253	1,253	1,634
Czechoslovakia—			
Crude nickel and scrap . .	7	14	11
Denmark—			
Sheets, rods, wire and alloy	9	—	(a)
France—			
Ore . . . . .	1,187	—	37
Matte and speiss . . . . .	99	26	34
Ingots . . . . .	477	123	136
do. (alloyed) . . . . .	5	48	20
Sheets and wire . . . . .	62	69	41
do. (alloyed) . . . . .	75	89	125
Nickel sulphate and oxide..	20	31	33

(a) Information not available.

EXPORTS OF NICKEL (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Germany—			
Nickel and chrome ores ..	362	93	297
Crude and coin .. ..	1,121	2,239	2,056
Bars, sheets, wire, etc. ..	153	252	498
Hungary—			
Crude scrap and alloys ..	1	25	19
Italy—			
Nickel and alloys .. ..	289	264	186
Netherlands—			
Crude and scrap .. ..	27	52	98
Norway—			
Ingots .. .. .	25	456	390
Sweden—			
Crude .. .. .	2	5	7
Switzerland—			
Nickel and nickel-silver ..	545	992	1,146
United States—			
Nickel and alloys .. ..	942	1,049	1,281
Nickel-silver bars, etc. ..	636	627	466
New Caledonia—			
Matte .. .. .	4,358	2,424	5,386

## IMPORTS OF NICKEL

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Ore and matte ( <i>d</i> ) .. ..	106	( <i>c</i> ) 3,469	526
Cubes, rondels, etc. ..	1,585	1,083	678
Plates, sheets and anodes	28	98	30
Ingots, sheets, etc., (alloyed)	1,030	1,114	1,044
Nickel oxide .. ..	25	42	44
Irish Free State—			
Nickel, alloys and manu- factures .. ..	179	226	225
Canada—			
Ingots, blocks and alloyed	692	97	14
Bars, rods, sheets, etc. ..	369	326	555
do. (alloyed) .. ..	35	98	147
British India (total imports—			
Nickel-silver .. ..	757	1,251	918
Australia—			
Ingots, sheets, scrap, etc.	63	17	35
FOREIGN COUNTRIES			
Austria—			
Crude nickel and scrap ..	759	1,245	1,015
Plates, sheets and anodes..	12	16	17
Belgium-Luxemburg E.U.—			
Ingots, scrap, etc. .. ..	2,143	1,924	3,151
Sheets, wire, etc. .. ..	263	318	189
Czechoslovakia—			
Crude and scrap .. ..	595	940	965
Plates and sheets .. ..	45	52	477
Denmark—			
Ingots, etc. .. ..	9	11	( <i>a</i> )
Sheets, rods, wire and alloys	145	156	( <i>a</i> )

*(a)* Information not available.*(c)* Excess of re-exports.

*(d)* Canada records exports to the United Kingdom of nickel contained in ore, matte or speiss as follows :—1927, 12,738 long tons ; 1928, 11,777 long tons ; 1929, 6,466 long tons.

IMPORTS OF NICKEL (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Finland—			
Crude nickel and scrap ..	3	14	16
France—			
Ore .. .. .	2	—	1,182
Matte and speiss .. ..	1,063	2,283	2,617
Ingots .. .. .	1,069	1,750	2,776
do. (alloyed) .. ..	17	17	68
Sheets and wire .. ..	105	200	345
do. (alloyed) .. ..	365	495	408
Nickel sulphate and oxide	464	951	1,579
Germany—			
Ore .. .. .	2,440	2,299	13,599
Crude and coin .. ..	3,440	4,102	4,409
Bars, sheets, wire, etc. ..	240	295	327
Greece .. .. .	2	2	3
Hungary—			
Crude scrap and alloys ..	46	37	68
Bars and wire .. .. .	60	64	57
Italy—			
Ingots, scrap, alloys, etc. ..	835	1,303	1,683
Sheets, tubes, wire, alloys, etc. .. .. .	76	112	75
Jugoslavia—			
Crude, scrap and coin ..	3	2	4
Bars, sheets, wire, etc. ..	7	2	4
Netherlands—			
Crude and scrap .. .. .	111	171	168
Poland—			
Ingots, sheets, scrap, etc. ..	206	285	293
Portugal .. .. .	—	1	11
Rumania—			
Nickel and scrap .. .. .	16	(a)	(a)
Russia (years ended Sept. 30)	355	1,705	(a)
Spain (total imports)—			
Ingots and cubes .. .. .	233	175	201
Sheets, tubes, wire and alloys .. .. .	120	127	178
Sweden—			
Crude nickel .. .. .	204	379	569
Sheets .. .. .	19	15	24
Switzerland—			
Nickel and nickel silver ..	637	1,380	1,043
Algeria—			
Sheets, wire and alloys ..	11	13	(a)

IMPORTS OF NICKEL (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Egypt—			
Nickel and alloys .. ..	28	31	48
United States—			
Ore and matte .. ..	4,797	8,299	12,938
Nickel and alloys .. ..	13,295	21,873	28,759
Nickel oxide .. ..	452	778	1,458
Brazil (total imports)—			
Cubes and sheets .. ..	7	18	14
Chile—			
Bars and plates .. ..	5	8	13
China—	297	177	112
Dutch East Indies—			
Sheets, etc., and alloys ..	7	7	(a)
Japan (total imports)—			
Ingots and grains .. ..	599	1,042	728
Other nickel .. ..	31	21	30
Philippine Islands—	30	4	1
Turkey—			
Nickel and alloys .. ..	4	111	16

(a) Information not available.

**NITRATES**

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PRODUCTION OF NITRATES (NATURAL)  
(Long tons)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
India—			
Nitrate of potash (estimated)	6,800	4,700	4,800
FOREIGN COUNTRIES			
Spain—			
Nitrate of potash .. ..	935	837	(a)
Egypt—			
Nitrate of soda .. ..	453	604	940
Chile—			
Nitrate of soda .. ..	1,588,590	3,112,573	3,186,461

(a) Information not available.

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

Producing country and Description.	1927	1928	1929
BRITISH EMPIRE			
Great Britain—			
Ammonium salts expressed as sulphate (25¾ per cent. NH <sub>3</sub> ) (c) .. ..	473,445	622,242	912,259
Union of South Africa—			
Ammonium sulphate ..	843	942	1,039
Canada—			
Ammonium sulphate ..	24,708	28,090	(a)
Cyanamide .. ..	79,000	76,000	(a)
India—			
Ammonium sulphate ..	13,451	15,082	(a)
New South Wales (year ended June 30) from gas works			
Ammonium sulphate ..	11,123	6,546	17,617
Victoria (year ended June 30)—			
Ammonium sulphate ..	3,591	3,441	2,689
South Australia (year ended June 30)—			
Ammonium sulphate ..	992	1,176	1,113
FOREIGN COUNTRIES			
Austria—			
Ammonium sulphate ..	4,799	4,943	(a)
Belgium—			
Ammonium sulphate ..	100,000	125,000	255,000
Czechoslovakia—			
Ammonium sulphate ..	35,492	64,241	69,259
Cyanamide .. ..	21,999	24,755	(a)
Denmark—			
Ammonium sulphate ..	2,000	2,000	2,000
France—			
Ammonium sulphate ..	183,000	210,000	255,000
Cyanamide .. ..	52,000	54,000	54,000
Nitrate of soda .. ..	(a)	(a)	900
Nitrate of lime .. ..	12,000	26,000	27,000
Germany—			
Ammonium sulphate ..	2,156,000	2,200,000	2,224,000
Cyanamide .. ..	390,000	425,000	430,000
Nitrate of lime .. ..	296,000	640,000	720,000
Nitrate of soda .. ..	129,000	194,000	226,000
Ammonium sulphate nitrate	200,000	200,000	200,000
Urea and Nitrophoska ..	30,000	70,000	100,000

\* Includes By-product ammonium sulphate which is separately recorded on pages 69-72.

(a) Information not available.

(c) Actual ammonium sulphate production was:—

1927 .. ..	434,275 long tons.
1928 .. ..	558,705 " "
1929 .. ..	828,832 " "

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS  
(Cont.)

Producing Country and Description.	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Italy—			
Ammonium sulphate ..	76,000	118,000	143,000
Cyanamide .. ..	38,200	55,400	78,000
Ammonium nitrate.. ..	6,600	10,800	10,000
Nitrate of lime .. ..	1,400	3,700	9,700
Jugoslavia—			
Cyanamide .. ..	45,000	45,000	(a)
Luxemburg—			
Ammonium sulphate ..	6,000	6,000	6,000
Netherlands—			
Ammonium sulphate ..	44,000	46,000	(a)
Norway—			
Cyanamide .. ..	33,638	56,324	(a)
Nitrate of ammonia ..	10,068	13,605	(a)
Nitrate of lime .. ..	156,607	170,599	(a)
Nitrate of soda .. ..	29,448	37,218	(a)
Poland—			
Ammonium sulphate ..	26,195	36,142	37,800
Cyanamide .. ..	141,233	152,447	(a)
Nitrate of soda .. ..	999	—	—
Portugal—			
Ammonium sulphate ..	118	(a)	(a)
Rumania—			
Ammonium sulphate ..	600	600	600
Cyanamide .. ..	17,000	17,000	(a)
Russia (year ended Sept. 30)—			
Ammonium sulphate ..	10,367	13,412	19,023
Spain—			
Ammonium sulphate (incomplete data) .. ..	47,000	51,000	(a)
Sweden—			
Ammonium sulphate ..	4,716	7,490	(a)
Cyanamide .. ..	24,086	13,000	(a)
Switzerland—			
Ammonium sulphate ..	13,000	21,000	(a)
Cyanamide .. ..	26,000	23,000	(a)
Algeria—			
Ammonium sulphate ..	284	(a)	(a)
United States—			
Sulphate equivalent of ammonia produced (coke ovens) .. ..	640,589	713,292	789,313
Do. (synthetic) .. ..	78,000	112,500	364,000
Japan—			
Ammonium sulphate ..	173,696	228,739	(a)
Cyanamide (c) .. ..	118,503	157,000	(a)
Nitrate of potash .. ..	1,089	(a)	(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.	1927	1928	1929
By-product sulphate of ammonia .. .. .	348,000	372,000	
Synthetic sulphate of ammonia	333,000	426,000	
Cyanamide (b) .. .. .	192,000	207,000	
Nitrate of lime .. .. .	93,000	120,000	
Other forms of synthetic nitrogen(c) .. .. .	185,000	300,000	
Other forms of by-product nitrogen (c) .. .. .	48,000	53,000	
Chilean nitrate of soda ..	295,000	440,000	
Total production	1,494,000	1,918,000	(a)
Consumption.			
Manufactured nitrogen ..	1,144,000	1,352,000	
Chilean nitrate of soda ..	333,000	405,000	
Total consumption	1,477,000	1,757,000	(a)
Agricultural consumption about	1,345,000	1,587,000	(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	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Nitrate of potash .. ..	874	828	650
Nitrate of soda .. ..	212	510	441
Nitrate of lime .. ..	11	5	28
British India—			
Nitrate of potash .. ..	6,151	4,479	4,585
British Malaya (including re- exports)—			
Nitrate of potash .. ..	35	373	196
Australia (including re-exports)—			
Nitrate of soda .. ..	20	1	—
FOREIGN COUNTRIES			
Austria—			
Nitrate of soda .. ..	9	6	—
Nitrate of potash .. ..	149	325	255
Belgium-Luxemburg E.U.—			
Nitrate of potash .. ..	744	249	245
Nitrate of soda .. ..	5,914	1,442	1,870
Nitrate of lime .. ..	385	18	21
Czechoslovakia —			
Nitrate of potash .. ..	97	105	96
Nitrate of soda .. ..	103	700	24
France—			
Nitrate of potash—			
Natural .. ..	1,040	310	519
Synthetic .. ..	6,456	6,481	6,087
Nitrate of soda .. ..	2,050	3,724	2,935
Nitrate of lime .. ..	934	1,302	2,656
Germany—			
Nitrate of potash .. ..	20,908	22,796	28,084
Nitrate of soda .. ..	59,325	31,910	68,315

EXPORTS OF NITRATES (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Italy—			
Nitrate of potash .. ..	1	2	1
Nitrate of soda .. ..	42	23	12
Nitrate of lime .. ..	—	16	53
Jugoslavia—			
Nitrate of soda .. ..	—	—	280
Netherlands—			
Nitrate of potash .. ..	2,111	1,807	1,207
Nitrate of soda .. ..	4,600	820	1,758
Nitrate of lime .. ..	268	16	36
Norway—			
Nitrate of soda .. ..	33,370	34,022	27,823
Nitrate of lime .. ..	134,389	109,965	204,270
Poland—			
Nitrate of potash .. ..	40	6	61
Nitrate of soda .. ..	1	15	25
Nitrate of lime .. ..	11	—	238
Sweden—			
Nitrate of potash .. ..	1	3	1
Nitrate of soda .. ..	11	34	9
Nitrate of lime .. ..	—	4	—
Switzerland—			
Nitrates of potash and soda .. ..	—	221	3,229
Chile—			
Nitrate of soda .. ..	2,235,607	2,788,157	2,851,193

## IMPORTS OF NITRATES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Nitrate of potash .. ..	6,539	5,656	6,022
Nitrate of soda .. ..	76,387	76,048	77,127
Nitrate of lime .. ..	4,809	4,940	3,681
Irish Free State—			
Nitrate of potash .. ..	200	215	196
Nitrate of soda .. ..	1,803	2,202	3,700
Mauritius—			
Nitrate of potash .. ..	3,243	2,787	3,225
Nitrate of soda .. ..	3,891	2,984	3,600
Northern Rhodesia—			
Nitrates .. ..	4	104	172
Southern Rhodesia—			
Nitrate of potash .. ..	15	19	28
Union of South Africa—			
Nitrate of potash .. ..	105	150	117
Nitrate of soda .. ..	24,646	34,259	31,318
Canada—			
Nitrate of potash .. ..	560	448	632
Nitrate of soda .. ..	23,824	23,911	30,248
Barbados—			
Nitrate of soda .. ..	21	30	(a)
British India (total imports)—			
Nitrate of soda .. ..	7,748	8,332	12,427
British Malaya (total imports)—			
Nitrate of potash .. ..	333	352	234
Ceylon—			
Nitrate of potash refuse .. ..	4,827	3,450	3,895
Nitrate of soda .. ..	6,293	2,806	4,986
Australia—			
Nitrate of potash .. ..	650	452	713
Nitrate of soda .. ..	9,288	8,122	8,280
New Zealand—			
Nitrate of potash .. ..	80	95	86
Nitrate of soda .. ..	2,362	855	2,098

## IMPORTS OF NITRATES (Cont.)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES			
Austria—			
Nitrate of soda .. ..	2,389	3,632	3,581
Nitrate of potash .. ..	72	39	19
Nitrate of lime .. ..	(a)	5,117	4,931
Belgium-Luxemburg E. U.—			
Nitrate of potash .. ..	783	466	1,196
Nitrate of soda .. ..	60,674	136,144	139,695
Nitrate of lime .. ..	18,821	7,383	9,366
Bulgaria—			
Nitrates .. ..	185	178	(a)
Czechoslovakia—			
Nitrate of potash .. ..	18	75	55
Nitrate of soda .. ..	51,384	54,235	98,631
Denmark—			
Nitrate of potash .. ..	1,511	1,382	1,273
Nitrate of soda .. ..	19,778	32,967	43,799
Nitrate of lime .. ..	89,595	104,300	144,166
Estonia—			
Nitrate of potash .. ..	24	13	12
Nitrate of soda .. ..	943	1,867	2,372
Nitrate of lime .. ..	22	136	112
Finland—			
Nitrate of potash .. ..	41	63	37
Nitrate of soda .. ..	482	1,015	211
Nitrate of lime .. ..	13,511	15,695	18,454
France—			
Nitrate of potash—			
Natural .. ..	1	15	18
Synthetic .. ..	13	217	259
Nitrate of soda .. ..	341,381	345,961	569,011
Nitrate of lime .. ..	25,738	25,826	20,161
Germany—			
Nitrate of potash .. ..	210	336	152
Nitrate of soda .. ..	26,134	111,972	128,322
Greece—			
Nitrate of potash .. ..	78	111	158
Nitrate of soda .. ..	5,631	3,220	14,549
Hungary—			
Nitrate of soda .. ..	1,597	2,355	1,808
Italy—			
Nitrate of potash .. ..	1,590	1,838	1,771
Nitrate of soda .. ..	45,937	72,892	81,823
Nitrate of lime .. ..	2,737	8,632	24,681

(a) Information not available.

IMPORTS OF NITRATES (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Jugoslavia—			
Nitrate of potash .. ..	524	124	37
Nitrate of soda .. ..	843	1,047	2,016
Latvia—			
Nitrate of soda .. ..	705	995	3,031
Nitrate of lime .. ..	(a)	2,266	2,297
Lithuania—			
Nitrate of potash .. ..	32	53	25
Nitrate of soda .. ..	161	841	1,125
Netherlands—			
Nitrate of potash .. ..	686	861	965
Nitrate of soda .. ..	86,875	170,253	183,135
Nitrate of lime .. ..	44,139	67,328	87,902
Norway—			
Nitrate of potash .. ..	120	138	147
Nitrate of soda .. ..	46	52	84
Poland—			
Nitrate of potash .. ..	549	284	491
Nitrate of soda .. ..	33,506	89,700	77,947
Nitrate of lime .. ..	6,193	6,666	47,345
Portugal—			
Nitrate of potash .. ..	241	315	403
Nitrate of soda .. ..	4,093	4,915	3,317
Rumania—			
Nitrate of soda .. ..	229	(a)	(a)
Russia (years ended Sept. 30)—			
Nitrate of potash .. ..	19,659	64,411	18,939
Nitrate of soda .. ..		2,175	2,088
Spain (total imports)—			
Nitrate of soda .. ..	124,505	137,937	170,452
Sweden—			
Nitrate of potash .. ..	418	577	494
Nitrate of soda .. ..	26,819	38,382	42,332
Nitrate of lime .. ..	37,269	29,063	29,661
Switzerland—			
Crude nitrate of potash ..	1,887	2,111	1,888
Nitrates of potash and soda	892	419	462
Algeria—			
Nitrate of potash .. ..	26	44	114
Nitrate of soda .. ..	856	876	974
Nitrate of lime .. ..	445	1,073	398
Egypt—			
Nitrate of potash .. ..	2	—	4
Nitrate of soda .. ..	139,860	185,055	190,075
Nitrate of lime .. ..	32,990	39,256	63,772

IMPORTS OF NITRATES (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Réunion—			
Nitrate of soda .. ..	138	(a)	(a)
Tunis—			
Nitrate of potash .. ..	35	39	45
Nitrate of soda .. ..	207	148	232
Mexico—			
Nitrates of potash and soda	3,197	6,421	(a)
United States—			
Nitrate of potash (total imports) .. ..	3,550	9,674	12,800
Nitrate of soda .. ..	736,522	1,014,887	921,212
Nitrate of lime .. ..	17,990	23,315	31,685
Argentina—			
Nitrate of potash .. ..	149	111	(a)
Nitrate of soda .. ..	2,059	3,516	(a)
Brazil (total imports)—			
Nitrate of potash .. ..	3,356	6,130	5,105
Chile—			
Nitrate of potash .. ..	28	25	13
Colombia—			
Nitrate of potash and soda	27	(a)	(a)
Peru—			
Nitrate of potash .. ..	666	(a)	(a)
Nitrate of soda .. ..	1,539	(a)	(a)
Uruguay—			
Nitrates of potash and soda	2	(a)	(a)
Venezuela—			
Nitrate of potash .. ..	68	32	(a)
China—			
Nitrate of potash .. ..	1,469	1,806	1,478
Nitrate of soda .. ..	2,905	4,855	3,944
Dutch East Indies—			
Nitrate of potash .. ..	93	90	(a)
Nitrate of soda .. ..	1,546	1,368	(a)
French Indo-China—			
Nitrate of potash .. ..	90	122	105
Nitrate of soda .. ..	55	(a)	(a)
Japan (total imports)—			
Nitrate of potash .. ..	397	(a)	(a)
Nitrate of soda .. ..	54,569	51,812	87,168
Philippine Islands—			
Nitrate of soda .. ..	—	348	2

(a) Information not available.

**PETROLEUM AND ALLIED PRODUCTS**

PRODUCTION OF PETROLEUM  
(Including Shale-Oil)  
(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom (estimated) .. ..	169,000	169,000	166,000
Canada (b) .. ..	60,328	79,011	142,649
Barbados .. ..	283	1,213	(a)
Trinidad .. ..	737,050	1,052,664	1,193,925
British Borneo (Sarawak)	700,647	739,227	748,405
India (b) .. ..	1,100,250	1,197,431	1,200,110
<b>Total ..</b>	<b>2,770,000</b>	<b>3,240,000</b>	<b>3,450,000</b>
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia .. ..	16,214	13,709	13,627
Estonia .. ..	4,167	6,491	4,586
France .. ..	71,520	79,345	71,000
Germany .. ..	95,171	90,591	101,242
Italy .. ..	6,041	5,899	6,000
Poland .. ..	711,184	731,163	664,022
Rumania .. ..	3,611,402	4,214,743	4,760,581
Russia (years ended Sept. 30) .. ..	10,175,047	11,545,279	13,419,000
Algeria .. ..	1,185	1,286	3,000
Egypt .. ..	181,641	264,085	267,816
Cuba .. ..	400	(a)	(a)
Mexico (b) .. ..	9,715,325	7,598,578	6,770,876
United States (b) .. ..	121,774,200	121,820,800	136,124,700
Argentina .. ..	1,288,315	1,459,600	1,319,074
Colombia .. ..	2,114,714	2,802,365	2,866,086
Ecuador .. ..	69,802	153,500	188,421
Peru .. ..	1,319,426	1,566,416	1,882,150
Venezuela .. ..	8,630,738	15,077,493	19,531,514
Dutch East Indies .. ..	3,635,489	4,239,698	4,998,344
Formosa .. ..	20,498	15,100	14,580
Iraq .. ..	44,290	93,000	118,986
Japan .. ..	234,856	262,429	253,082
Persia .. ..	5,242,000	5,700,000	5,718,745
<b>Total ..</b>	<b>169,000,000</b>	<b>177,600,000</b>	<b>198,900,000</b>
<b>WORLD'S TOTAL</b>	<b>171,800,000</b>	<b>180,800,000</b>	<b>202,400,000</b>

(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.



PRODUCTION OF NATURAL GAS  
(Thousand cubic feet)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom (estimated) .. ..	7,000	7,000	7,000
Canada .. ..	21,376,791	22,582,586	28,097,456
FOREIGN COUNTRIES			
Czechoslovakia .. ..	9,658	9,939	(a)
Italy .. .. .	206,507	225,917	(a)
Jugoslavia .. .. .	21,328	32,857	39,749
Poland .. .. .	16,037,828	16,226,656	(a)
Rumania .. .. .	15,504,537	21,648,805	28,484,879
Russia (years ended Sept. 30) .. ..	8,651,420	(a)	(a)
United States .. ..	1,445,428,000	1,568,139,000	1,917,693,000
Dutch East Indies (long tons)	351,783	471,608	(a)
Japan .. .. .	992,202	970,045	(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	1927	1928	1929
BRITISH EMPIRE			
Barbados (exports of manjak) .. .. .	45	59	(a)
Trinidad .. .. .	242,131	195,980	219,603
FOREIGN COUNTRIES			
Italy .. .. .	778	2,144	(a)
Poland (ozokerite) .. ..	724	755	(a)
Russia (years ended Sept. 30) .. .. .	45,313	21,116	(a)
Switzerland (exports) .. ..	36,136	20,984	19,693
Egypt (exports) .. .. .	6,326	41,899	50,218
Cuba (exports) .. .. .	24,650	10,957	(a)
United States (sales)—			
Gilsonite .. .. .	38,018	41,985	49,056
Ozokerite .. .. .	71	134	259
Wurtzilite .. .. .	250	170	179
Venezuela .. .. .	109,881	47,979	27,474

(a) Information not available.

## PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1927	1928	1929
FOREIGN COUNTRIES			
France .. .. .	60,000	53,846	45,082
Germany .. .. .	115,975	155,828	143,046
Greece .. .. .	285	3,123	(a)
Italy .. .. .	356,945	238,473	(a)
Jugoslavia .. .. .	140	527	62
Rumania .. .. .	30,227	8,735	(a)
Russia (years ended Sept. 30)	2,301	4,006	(a)
Spain .. .. .	4,443	7,613	(a)
United States (sales) ..	710,804	679,015	668,348
Dutch East Indies ..	1,319	3,602	(a)

(a) Information not available.

## PRODUCTION OF OIL-SHALE

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	2,047,263	2,038,114	2,023,609
Australia .. .. .	3,150	2,595	4,299
FOREIGN COUNTRIES			
Austria .. .. .	445	649	660
Estonia .. .. .	391,338	439,169	509,476
France (including boghead coal) .. .. .	86,100	(a)	(a)
Germany (Bavaria) ..	472	(a)	(a)
Italy .. .. .	11,899	7,271	(a)
Russia (years ended Sept. 30)	9,285	(a)	(a)

(a) Information not available.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS  
(Domestic Produce)

Exporting Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE</b>				
United Kingdom—				
Crude petroleum ..	Gallon	70,843	46,570	48,094
Motor spirit, etc. ..	do.	29,793,908	41,033,881	32,099,067
Kerosene ..	do.	22,275,426	28,853,308	16,378,969
Fuel oil and gas oil ..	do.	64,397,061	45,082,221	54,285,919
Lubricating oil ..	do.	9,129,421	7,365,968	7,660,615
Other refined oils ..	do.	334,403	888,266	530,582
Mineral jelly ..	Long ton	418	318	319
Paraffin wax ..	do.	8,969	8,492	9,654
Malta—				
Fuel oil (bunkers) (c) ..	Gallon	6,290	836	967
Sierra Leone—				
Fuel oil (bunkers) (c) ..	Gallon	637,653	782,603	135
Other petroleum oils (bunkers) ..	do.	4,857	1,940	1,058
Canada—				
Crude petroleum ..	Gallon	18,793,254	21,531,929	28,177,495
Motor spirit ..	do.	2,463,379	3,957,557	4,669,078
Kerosene, etc. ..	do.	1,759,838	1,297,081	1,367,241
Mineral wax ..	Long ton	161	447	516
Other mineral oils ..	Gallon	258,251	279,946	433,634
British West Indies—				
Barbados—				
Manjak ..	Long ton	45	60	(a)
Trinidad and Tobago—				
Crude petroleum ..	Gallon	15,899,385	25,756,405	31,799,157
Motor spirit ..	do.	28,444,066	39,343,504	48,426,448
Kerosene ..	do.	1,324,965	539,193	1,903,291
Fuel oil ..	do.	110,312,796	157,010,616	206,173,757
Lubricating oil ..	do.	5,752	8,928	7,620
Asphalt—				
Crude ..	Long ton	46,915	27,150	29,400
Dried ..	do.	139,445	125,138	134,911
Aden (including re- exports)—				
Motor spirit ..	Gallon	51,924	52,750	76,473
Kerosene ..	do.	398,112	200,276	198,173
Other mineral oils ..	do.	32,547	24,190	23,066

(a) Information not available.

(c) See imports.

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

Exporting Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
British Borneo (Sarawak)—				
Crude petroleum ..	Long ton	214,554	235,036	152,806
Motor spirit .. ..	do.	109,282	67,974	230,717
Kerosene .. ..	do.	67,887	98,981	63,975
Fuel oil .. ..	do.	217,735	196,398	276,102
Solar oil .. ..	do.	—	—	11,034
British India—				
Petroleum .. ..	Long ton	16,176	13,431	15,143
Motor spirit, etc. ..	Gallon	154,478	140,755	112,838
Paraffin wax .. ..	Long ton	47,700	49,676	64,006
British Malaya (including re-exports)—				
Crude petroleum ..	Long ton	629	1,293	—
Motor spirit .. ..	do.	202,439	184,416	194,255
Kerosene .. ..	do.	92,538	112,058	99,716
Fuel oil .. ..	do.	55,383	62,318	85,293
do. (bunkers) ..	do.	205,669	219,379	277,311
Lubricating oil ..	Gallon	2,128,148	1,557,029	1,467,130
Other petroleum oils ..	Long ton	53	8	55
Paraffin wax .. ..	do.	193	190	270
Asphalt and bitumen ..	do.	2,277	2,077	2,016
Australia (including re-exports)—				
Crude petroleum ..	Gallon	38,661	55,025	242,105
Motor spirit, etc. ..	do.	176,433	133,240	100,801
Kerosene .. ..	do.	221,215	180,025	1,863,783
Lubricating oil ..	do.	256,451	368,250	315,639
Residual and solar oils	do.	593,579	286,208	163,135
Greases .. ..	Long ton	350	314	291
Paraffin wax, etc. ..	do.	2	2	13
New Zealand (foreign produce)—				
Fuel oil (bunkers) ..	Gallon	16,720,028	15,433,398	16,642,009

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES</b>				
<b>Austria—</b>				
Kerosene and gas oil	Long ton	8	5	6
Vaseline and paraffin wax .. .. .	do.	28	12	12
Ozokerite and ceresin	do.	144	228	118
Asphalt products ..	do.	709	1,787	1,512
<b>Belgium-Luxemburg E.U.—</b>				
Crude petroleum ..	Long ton	363	112	70
Refined petroleum ..	do.	24	144	251
Kerosene .. .. .	do.	163	39	27
do. (bunkers) ..	do.	31	27	34
Lubricating oil ..	do.	6,174	2,376	2,304
Fuel oil .. .. .	do.	277	84	160
Other heavy oils ..	do.	1,411	1,048	2,164
Vaseline and paraffin wax .. .. .	do.	833	1,419	1,215
Ozokerite .. .. .	do.	119	146	100
Asphalt .. .. .	do.	107	509	364
Residual asphalt ..	do.	827	1,000	1,244
<b>Czechoslovakia—</b>				
Crude oils .. .. .	Long ton	4,576	615	—
Refined oils .. ..	do.	13,224	8,553	9,533
Residual oils .. ..	do.	251	1	12
Paraffin wax .. ..	do.	408	512	872
Ozokerite and ceresin..	do.	269	383	357
Asphalt products ..	do.	310	915	1,400
<b>Denmark—</b>				
Fuel oil .. .. .	Long ton	50	2	7
Crude residual oils ..	do.	276	268	234
Lubricating oil ..	do.	225	265	260
Paraffin wax, etc. ..	do.	20	17	23
<b>Estonia—</b>				
Shale oil .. .. .	Long ton	863	2,476	1,836
Motor spirit .. .. .	do.	5	15	206
Oil-shale .. .. .	do.	1,746	10	2
<b>France—</b>				
Crude petroleum ..	Long ton	21	33	29
Kerosene .. .. .	Gallon	42,831	54,912	41,550
do. (bunkers) ..	do.	22,758		

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

Exporting Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES (Cont.)				
France (Cont.)—				
Motor spirit .. ..	Gallon	75,802	} 97,592	130,086
do. (bunkers) ..	do.	13,646		
Lubricating oil ..	Long ton	7,396	6,270	3,816
Vaseline .. ..	do.	150	165	164
Residual oils, etc. ..	do.	5,858	4,305	3,960
Paraffin wax .. ..	do.	89	44	41
Ozokerite .. ..	do.	43	39	65
Bitumen and asphalt ..	do.	25,897	32,033	33,468
Germany—				
Motor spirit .. ..	Long ton	6,516	6,431	7,326
Kerosene .. ..	do.	—	15	111
Gas oil .. ..	do.	215	69	8,469
Lubricating oil ..	do.	53,498	62,690	74,912
Paraffin wax .. ..	do.	163	200	743
Ozokerite, etc. ..	do.	5,701	5,702	6,259
Asphalt .. ..	do.	11,197	16,567	29,903
Hungary—				
Lubricating and gas oil	Long ton	2,181	601	1,101
Paraffin wax, etc. ..	do.	78	16	—
Asphalt, bitumen and tar	do.	93	36	92
Italy—				
Crude mineral oils ..	Long ton	150	115	297
Motor spirit .. ..	do.	331	1,858	2,431
Kerosene, etc. .. ..	do.	209	636	224
Lubricating oil ..	do.	2,592	3,667	6,654
Other oils and residues	do.	25,865	31,642	71,820
Paraffin wax, etc. ..	do.	62	92	87
Asphalt and bitumen ..	do.	109,938	79,513	77,118
Jugoslavia—				
Motor spirit .. ..	Long ton	13	—	1
Lubricating oil ..	do.	14	1	16
Asphalt .. ..	do.	5	6	6
Latvia—				
Lubricating oil ..	Long ton	1,892	2,854	4,687
Netherlands—				
Crude petroleum ..	Long ton	1	51	1,554
Motor spirit .. ..	do.	87	61	37
Kerosene .. ..	do.	146	58	58
Fuel oil and gas oil ..	do.	31,603	45,395	23,316
do (bunkers) ..	do.	58,808	46,488	43,115
Lubricating oil ..	do.	641	836	916
Vaseline .. ..	do.	56	139	351
Paraffin wax, etc. ..	do.	2,191	3,137	4,581
Greases .. ..	do.	(a)	88	173

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
Netherland (Cont.)—				
Asphalt .. ..	Long ton	150,686	136,152	132,624
Natural asphalt ..	do.	2,488	2,393	3,003
Poland—				
Kerosene .. ..	Long ton	49,844	34,965	50,018
Motor spirit, etc. ..	do.	59,345	54,244	37,100
Fuel oil.. ..	do.	5,140	2,680	(a)
Lubricating oils ..	do.	48,984	41,548	39,423
Greases.. ..	do.	61	16	(a)
Paraffin wax .. ..	do.	22,666	32,299	24,964
Ceresin and ozokerite..	do.	732	917	(a)
Asphalt rock .. ..	do.	6	59	16
Mastic asphalt ..	do.	1,168	514	} 9,851
Other asphalt and tar	do.	13,781	7,325	
Rumania—				
Crude mineral oils ..	Long ton	12	2	2,502
Motor spirit .. ..	do.	534,912	651,876	789,748
Kerosene .. ..	do.	607,603	677,815	762,092
Residual oils .. ..	do.	683,773	913,195	1,158,958
Other oils .. ..	do.	63,085	61,251	61,596
Paraffin wax .. ..	do.	356	2,860	3,422
Asphalt and bitumen..	do.	1,697	1,166	(a)
Russia (years ended Sept. 30)—				
Crude petroleum ..	Long ton	158,726	244,542	264,910
Motor spirit .. ..	do.	584,404	725,840	939,572
Kerosene .. ..	do.	466,481	680,360	761,323
Fuel oil .. ..	do.	511,677	640,822	1,034,897
Gas oil .. ..	do.	117,990	191,787	234,636
Solar oil .. ..	do.	30,269	49,145	65,097
Light oils.. ..	do.	18,603	22,472	76,919
Lubricating oil ..	do.	149,055	179,861	205,192
Ozokerite .. ..	do.	162	32	158
Asphalt.. ..	do.	140	57	146
Spain (including re-exports)—				
Kerosene .. ..	Long ton	163	409	52
Motor spirit .. ..	do.	2,824	3,894	2,617
Lubricating oil ..	do.	306	123	220
Sweden—				
Crude and residual oils	Long ton	1,760	375	17
Motor spirit .. ..	Gallon	48,008	581,513	90,930
Kerosene .. ..	Long ton	2,363	3,101	3,975

(a) Information not available.

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Sweden (Cont.)—</b>				
Lubricating oil ..	Long ton	1,468	698	821
Other refined oils ..	do.	56	31	23
Paraffin wax, etc. ..	do.	20	10	12
Asphalt.. ..	do.	948	1,170	1,297
Pitch .. ..	do.	14	36	1,270
<b>Switzerland—</b>				
Lubricating oil ..	Long ton	41	40	52
Asphalt and bitumen ..	do.	36,136	20,984	19,693
<b>Angola—</b>				
Motor spirit, etc. ..	Long ton	49	5	(a)
<b>Belgian Congo—</b>				
Motor spirit .. ..	Long ton	470	604	458
Kerosene .. ..	do.	102	90	153
Other oils and greases	do.	97	157	120
<b>Egypt—</b>				
Motor spirit .. ..	Long ton	17,474	25,445	30,028
do. (additional) ..	Gallon	760,648	1,416,968	740,648
Kerosene .. ..	Long ton	1,913	7,441	8,034
do. (additional) ..	Gallon	1,093,416	1,437,240	1,127,560
Fuel oil (mazout) ..	Long ton	32,378	64,134	74,580
do. (bunkers) ..	do.	49,717	35,530	(a)
Solar oil .. ..	do.	21	7,903	1,659
do. (bunkers) ..	do.	(b)	114	—
Lubricating oil, etc. ..	do.	361	253	367
Asphalt and bitumen..	do.	6,326	41,899	50,218
<b>Senegal (total exports)—</b>				
Motor spirit (bunkers)	Long ton	88	107	669
Fuel oil (bunkers) ..	do.	11,731	19,393	89,004
<b>Dutch West Indies—</b>				
Crude petroleum ..	Long ton	659,270	4,421,667	2,577,000
Motor spirit .. ..	Gallon	125,581,980	224,317,600	339,975,000
Kerosene .. ..	do.	1,113,054	2,640,911	5,548,000
Gas oil and fuel oil ..	Long ton	2,682,101	4,939,678	9,080,000
Diesel oil .. ..	Gallon	11,457,511	19,834,903	2,800,000
Lubricating oil ..	do.	23,027,480	33,759,920	36,477,000
Asphalt .. ..	Long ton	1,972	—	(a)
<b>Mexico—</b>				
<b>Domestic exports—</b>				
<b>Crude petroleum—</b>				
Light.. ..	Gallon	5,554,340	40,747,413	880
Heavy .. ..	do.	926,024,440	623,612,790	541,472,050



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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
<b>Mexico (Cont.)—</b>				
Fuel oil .. .. .	Gallon	536,472,050	276,428,610	132,367,940
Gas oil .. .. .	do.	20,896,888	35,681,367	67,706,950
Motor spirit .. ..	do.	93,249,860	75,457,268	61,804,129
Kerosene .. .. .	do.	32,351,440	47,057,955	52,023,834
Lubricating oils ..	do.	11,479,380	12,610,958	15,459,673
Asphalt .. .. .	Long ton	303,747	235,004	269,215
Refined from imported oil—				
Fuel oil .. .. .	Gallon	136,281,950	(a)	9,143,186
Gas oil .. .. .	do.	6,841,760	4,172,685	5,192,851
Motor spirit .. ..	do.	14,006,035	660	840,305
Kerosene .. .. .	do.	2,055,522	(a)	22
Lubricating oil ..	do.	104,570	199,234	146,178
<b>United States—</b>				
Crude petroleum ..	Gallon	554,519,175	663,647,670	923,802,215
Motor spirit .. ..	do.	1,516,957,400	1,811,311,390	2,100,233,590
Kerosene .. .. .	do.	674,782,605	764,632,155	693,712,320
White mineral oil ..	do.	(a)	175,069	(a)
Gas oil and fuel oil ..	do.	1,505,647,780	1,455,061,475	1,250,017,440
do. (bunkers) .. ..	do.	1,751,770,090	1,789,368,700	1,829,725,520
Lubricating oils ..	do.	340,420,030	382,590,600	404,384,960
Mineral spirits .. ..	do.	2,276,890	1,960,595	2,108,330
Residual oils .. ..	do.	7,610,610	2,187,710	1,223,530
Greases .. .. .	Long ton	44,859	48,264	52,095
Paraffin wax .. ..	do.	151,918	175,291	142,514
Petroleum jelly .. ..	do.	2,355	2,859	3,158
Asphalt, bitumen, etc..	do.	379,769	463,058	469,871
Petroleum coke .. ..	do.	93,253	122,688	115,820
<b>Cuba (including re- exports)—</b>				
Natural asphalt ..	Long ton	24,650	10,957	(a)
<b>Argentina—</b>				
Fuel oil .. .. .	Long ton	25,407	447	(a)
<b>Chile—</b>				
Crude petroleum ..	Long ton	206	294	545
do. (bunkers) .. ..	do.	17,543	19,057	19,458
Motor spirit .. .. .	do.	232	128	161
Kerosene .. .. .	do.	160	141	76

(a) Information not available.

(b) Included with fuel oil.

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
Colombia—				
Petroleum .. ..	Long ton	1,845,352	2,549,498	2,615,200
Ecuador—				
Petroleum .. ..	Long ton	(a)	121,020	153,700
Peru—				
Crude petroleum ..	Long ton	726,075	762,639	1,004,006
Motor spirit .. ..	do.	244,403	304,521	312,314
Kerosene .. ..	do.	20,451	15,553	23,844
Fuel oil .. ..	do.	124,538	138,411	142,816
do. (bunkers) ..	do.	23,404	27,958	32,410
Lubricating oil ..	do.	1,614	1,823	1,913
Venezuela—				
Crude petroleum ..	Long ton	8,286,572	14,482,510	18,750,510
Motor spirit .. ..	do.	3,638	23,154	(a)
Kerosene .. ..	do.	26	23	(a)
Gas oil .. ..	do.	3,831	18,765	(a)
Asphalt .. ..	do.	53,873	42,490	26,000
Dutch East Indies—				
Crude petroleum ..	Long ton	746	13	(a)
Motor spirit .. ..	do.	624,219	705,959	(a)
Kerosene .. ..	do.	227,188	325,946	(a)
Fuel oil, Diesel and solar oil .. ..	do.	1,271,700	1,524,669	(a)
do. (bunkers) ..	do.	136,992	188,224	(a)
Batching oil .. ..	do.	42,216	41,638	(a)
Lubricating oil ..	do.	37,859	38,969	(a)
Paraffin wax .. ..	do.	39,676	47,164	(a)
Asphalt .. ..	do.	7	899	(a)
Turpene .. ..	do.	6,226	8,060	(a)
Greases .. ..	do.	558	532	(a)
Formosa (m)—				
Crude and heavy oils ..	Gallon	2,237,148	2,204,208	639,837
Motor spirit .. ..	do.	629,296	291,658	81,656
Kerosene .. ..	do.	450,940	198,825	261,795
Lubricating oil ..	do.	8,440	12,161	40,605
French Indo-China—				
Crude petroleum, etc...	Long ton	85	(a)	(a)
Refined petroleum, etc.	do.	84	82	16
Japan—				
Kerosene .. ..	Gallon	480,584	141,853	(a)
Other oils .. ..	Long ton	3,408	5,793	(a)

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

Exporting Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES</b> ( <i>Cont.</i> )				
Persia (including re- exports) ( <i>i</i> )—				
Petroleum, crude	Long ton	593,383	1,500,325	1,590,026
Kerosene .. ..	do.	211,872	218,129	1,664,120
Motor spirit .. ..	do.	319,438	362,683	785,980
Fuel and lubricating oils	do.	3,322,961	1,820,269	1,050,450

(*a*) Information not available.

(*i*) Years ended March 21.

(*m*) Including exports to Japan and other parts of Japanese Empire.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS

(Less Re-exports)

Importing Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE				
United Kingdom—				
Crude petroleum ..	Gallon	664,514,943	497,886,623	487,629,601
Motor spirit, etc ..	do.	529,113,487	715,337,240	754,767,735
Kerosene .. ..	do.	202,603,882	184,923,099	242,380,583
Fuel oil and gas oil ..	do.	528,708,851	564,040,803	514,606,112
Lubricating oil ..	do.	89,937,215	103,504,310	95,299,511
Other petroleum oils ..	do.	211,796	127,193	586,495
Mineral jelly .. ..	Long ton	2,589	2,918	3,086
Paraffin wax .. ..	do.	67,745	67,372	58,013
Ozokerite .. ..	do.	826	1,057	1,169
Asphalt and bitumen ..	do.	246,766	181,955	192,023
Oil shale .. ..	do.	1,751	—	1
Irish Free State—				
Motor spirit .. ..	Gallon	19,312,854	25,150,662	26,058,455
Kerosene .. ..	do.	16,068,044	14,417,284	11,725,949
Fuel oil and gas oil ..	do.	4,975,138	5,263,507	5,978,588
Lubricating oil .. ..	do.	2,164,867	2,314,198	2,557,584
Paraffin wax .. ..	Long ton	27,856	4,739	4,972
Asphalt and bitumen ..	do.	5,283	19,069	15,635
Malta—				
Motor spirit .. ..	Gallon	635,019	1,434,753	519,785
Petroleum .. ..	do.	2,782,445	3,862,040	3,955,878
Fuel oil (n) .. ..	Long ton	5,908	11,852	2,223
Anglo-Egyptian Sudan—				
Petroleum .. ..	Gallon	1,317,104	1,467,744	1,065,040
do. (additional) ..	Long ton	8	5	1,286
Motor spirit .. ..	Gallon	1,185,344	1,492,824	825,504
do. (additional) ..	Long ton	90	29	2,848
Fuel oil .. ..	do.	12,753	9,412	10,198
Lubricating oil, etc ..	do.	1,958	1,497	2,197
Asphalt .. ..	£	7,200	2,664	(a)
Gambia—				
Motor spirit .. ..	Gallon	97,696	144,192	135,043
Kerosene .. ..	do.	84,804	119,104	61,278
Fuel oil .. ..	do.	28,197	40,502	41,866
Lubricating oil .. ..	do.	14,086	24,531	17,053

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>				
<b>Gold Coast—</b>				
Motor spirit .. ..	Gallon	4,813,006	5,752,662	5,898,100
Kerosene .. ..	do.	2,549,762	3,006,972	3,044,023
Fuel oil .. ..	do.	219,267	407,594	521,872
Lubricating oil .. ..	do.	345,092	437,065	433,558
Asphalt, tar .. ..	do.	342,051	554,038	384,085
Pitch, etc. .. ..	Long ton	36	349	1,394
<b>Kenya and Uganda—</b>				
Motor spirit .. ..	Gallon	3,599,074	4,338,753	7,440,960
Kerosene .. ..	do.	3,421,657	3,404,198	4,100,345
Fuel oil .. ..	do.	5,455,136	7,482,732	4,666,698
Lubricating oil .. ..	do.	632,282	658,692	870,317
Greases .. ..	Long ton	121	164	163
<b>Mauritius—</b>				
Motor spirit .. ..	Gallon	865,880	786,683	1,713,343
Kerosene .. ..	do.	551,883	727,969	847,069
Lubricating oils, etc. .. ..	do.	132,749	373,996	231,088
Fuel oil. . . . .	do.	46,628	19,468	59,793
Refined motor grease .. ..	Long ton	36	44	80
Natural asphalt, etc. . . . .	do.	112	33	939
<b>Nigeria—</b>				
Motor spirit .. ..	Gallon	3,258,771	4,136,777	3,838,941
Kerosene .. ..	do.	4,142,381	5,383,812	5,014,154
Fuel oil. . . . .	do.	347,468	399,273	272,315
Lubricating oil .. ..	do.	324,120	459,524	581,073
Asphalt, tar .. ..	do.	93,920	144,755	178,832
Pitch, etc. .. ..	Long ton	495	427	186
<b>Nyasaland—</b>				
Motor spirit .. ..	Gallon	439,506	401,896	471,364
Kerosene .. ..	do.	84,654	86,857	87,500
Lubricating oil .. ..	do.	26,345	29,202	37,728
<b>Northern Rhodesia—</b>				
Motor spirit .. ..	Gallon	293,008	361,909	750,982
Kerosene .. ..	do.	79,349	87,077	127,216
Lubricating oil .. ..	do.	80,522	83,042	130,019
<b>Seychelles—</b>				
Motor spirit .. ..	Gallon	5,532	9,393	14,438
Kerosene .. ..	do.	23,122	25,465	35,909
<b>Sierra Leone—</b>				
Motor spirit .. ..	Gallon	229,696	278,949	293,767
Kerosene .. ..	do.	579,670	534,010	396,319
Fuel oil. . . . .	do.	6,964,166	64,406	89,156
Lubricating oil .. ..	do.	41,260	44,294	36,034
Other mineral oils .. ..	do.	846	6	6
Asphalt tar .. ..	Long ton	17,523	32,612	23,291
Pitch .. ..	do.	13	9	60

(a) Information not available.

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

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>				
<b>Southern Rhodesia—</b>				
Motor spirit .. ..	Gallon	2,014,352	2,465,416	3,064,896
Kerosene .. ..	do.	490,027	611,806	754,806
Lubricating oil ..	do.	351,324	360,013	465,010
Other oils .. ..	do.	4,458	37,835	50,036
Asphalt and bitumen..	Long ton	86	493	875
Paraffin wax .. ..	do.	495	503	473
Tar oil .. ..	Gallon	23,699	43,766	46,817
<b>South-West Africa—</b>				
Motor spirit .. ..	Gallon	1,156,788	1,751,400	1,858,185
Kerosene .. ..	do.	395,359	560,367	494,861
Lubricating oil ..	do.	141,858	228,042	302,491
Other oils .. ..	do.	1,112,478	1,073,337	252,959
<b>Tanganyika Territory—</b>				
Motor spirit .. ..	Gallon	993,351	1,323,205	1,899,303
Kerosene .. ..	do.	1,048,358	1,372,043	1,526,897
Fuel oil .. ..	do.	187,832	397,524	575,783
Lubricating oil ..	do.	106,528	221,329	295,215
<b>Union of South Africa—</b>				
Motor spirit .. ..	Gallon	37,473,473	48,257,134	67,865,270
Kerosene .. ..	do.	11,212,197	14,092,903	19,636,513
Fuel oil .. ..	do.	6,666,421	11,481,430	13,017,810
Lubricating oil ..	do.	4,483,358	4,875,925	6,074,588
Other oils .. ..	do.	451,102	424,499	873,101
Paraffin wax .. ..	Long ton	10,322	9,914	11,596
Asphalt and bitumen..	do.	15,834	17,196	20,129
Petroleum jelly ..	do.	227	194	184
<b>Zanzibar—</b>				
Motor spirit .. ..	Gallon	166,807	212,559	168,656
Kerosene, etc. .. ..	do.	748,493	469,352	371,972
Fuel oil .. ..	do.	29,231	113,250	74,282
Lubricating oil, etc. ..	do.	20,408	69,423	13,729
<b>Canada—</b>				
Crude petroleum ..	Gallon	766,262,842	917,317,707	1,128,318,884
Motor spirit .. ..	do.	108,168,328	143,653,116	175,151,570
Coal oil, kerosene, etc.	do.	4,037,355	3,968,647	4,532,833
Lubricating oils ..	do.	12,537,957	15,487,945	17,404,194
Other petroleum oils..	do.	190,983	211,832	194,794
Vaseline, etc. .. ..	£	40,844	49,459	51,247
Grease .. ..	Long ton	2,197	2,342	3,130
Paraffin wax, etc. ..	do.	1,905	1,180	1,648
Fuel oil, (bunkers) ..	Gallon	37,870,909	32,539,383	32,302,642
Asphaltum oil, etc. ..	£	22,542	29,239	25,169
Asphalt .. ..	Long ton	42,622	42,849	47,991
Other products .. ..	Gallon	1,745,896	1,860,009	1,828,536

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>				
Newfoundland (years ended June 30)—				
Crude petroleum ..	Gallon	46,167	132,018	189,278
Motor spirit .. ..	do.	1,592,054	2,396,391	2,348,805
Kerosene .. ..	do.	1,736,839	1,773,328	1,019,568
Lubricating oil (b) ..	do.	179,103	250,646	274,516
Asphalt .. ..	£	269	252	129
British Guiana—				
Crude petroleum ..	Gallon	4,036	8,932	5,200
Motor spirit .. ..	do.	667,334	717,742	677,824
Kerosene .. ..	do.	586,416	519,240	530,609
Fuel oil .. ..	do.	355,641	398,737	349,484
Tar and pitch .. ..	Long ton	212	261	193
West Indies—				
Bahamas—				
Crude petroleum ..	Gallon	826,000	1,043,000	571,000
Motor spirit .. ..	do.	620,000	887,000	857,000
Kerosene .. ..	do.	367,000	183,000	342,000
Barbados—				
Motor spirit .. ..	Gallon	637,310	733,592	(a)
Kerosene .. ..	do.	398,171	441,881	309,120
Lubricating oil ..	£	7,179	5,895	(a)
Residual oil .. ..	Long ton	7,401	3,584	(a)
Bermuda—				
Motor spirit .. ..	Gallon	71,136	49,958	65,793
Kerosene .. ..	do.	537,811	475,441	424,717
Fuel oil .. ..	Long ton	10,781	7,426	2,359
Grenada—				
Motor spirit .. ..	Gallon	107,299	118,563	127,980
Kerosene .. ..	do.	102,748	111,698	110,279
Fuel oil .. ..	do.	30,896	12,216	12,081
Lubricating oil ..	do.	7,816	9,798	6,295
Jamaica—				
Motor spirit .. ..	Gallon	3,163,186	3,671,358	5,498,123
Kerosene .. ..	do.	1,406,084	1,323,188	1,520,073
Gas oil and fuel oil ..	do.	493,979	187,708	9,686,915
Lubricating oil ..	do.	308	224,251	(a)
Asphalt, etc. .. ..	Long ton	1,082	1,713	(a)
Leeward Islands (j)—				
Motor spirit .. ..	Gallon	171,978	96,871	213,467
Kerosene .. ..	do.	214,843	179,421	212,265
Fuel oil .. ..	do.	210,327	86,058	40,995
Lubricating oil ..	do.	21,374	18,047	21,574

(a) Information not available.

(b) Excluding a small amount imported in bottles.

(j) Including inter-presidency trade.

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
<b>West Indies (<i>Cont.</i>)—</b>				
<b>St. Lucia—</b>				
Motor spirit .. ..	Gallon	30,731	36,781	38,467
Kerosene .. ..	do.	70,947	61,974	54,294
Lubricating oil ..	do.	4,290	4,979	3,074
<b>St. Vincent—</b>				
Motor spirit .. ..	Gallon	54,876	53,074	64,400
Kerosene .. ..	do.	47,652	52,820	53,944
Fuel oil .. ..	do.	28,178	23,455	24,782
Lubricating oil ..	do.	5,495	3,887	5,562
Asphalt tar .. ..	do.	984	872	652
Pitch .. ..	Long ton	—	1	2
<b>Trinidad and Tobago—</b>				
Motor spirit .. ..	Gallon	(i) 322	(i) 2,204	(i) 2,332
Refined petroleum, etc. .. ..	do.	192,197	154,606	154,009
Lubricating oil ..	do.	198,372	186,708	221,554
Fuel oil .. ..	do.	42	245,627	924,207
<b>British Honduras—</b>				
Motor spirit .. ..	Gallon	521,086	768,984	626,562
Kerosene .. ..	do.	306,167	360,785	351,657
Fuel oil .. ..	do.	50,901	87,322	141,180
Lubricating oil ..	do.	46,899	61,620	(a)
Asphalt .. ..	£	221	384	(a)
<b>Aden (total imports)—</b>				
Motor spirit .. ..	Gallon	391,408	264,902	340,248
Kerosene .. ..	do.	1,033,388	685,404	535,864
Fuel oil .. ..	Long ton	322,252	329,624	390,691
Lubricating oil ..	Gallon	58,643	60,825	63,193
Other oils .. ..	do.	1,894	3,483	508
<b>British Borneo—</b>				
<b>Brunei—</b>				
Kerosene .. ..	Gallon	72,532	90,935	91,736
<b>Sarawak—</b>				
Motor spirit .. ..	Gallon	202,094	207,324	226,253
Kerosene .. ..	do.	881,616	807,992	963,848
Fuel oil .. ..	do.	19,114	43,329	20,871
Lubricating oil ..	do.	156,885	168,770	182,430



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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>				
British India (total imports)—				
Motor spirit .. ..	Gallon	111,946	115,058	330,092
Kerosene .. ..	do.	88,158,627	104,439,966	103,300,553
Fuel oil .. ..	do.	100,285,536	100,918,457	114,966,030
Lubricating oil .. ..	do.	27,422,020	26,281,673	27,923,242
Other oils .. ..	do.	4,530,334	5,480,398	5,909,798
Paraffin wax .. ..	Long ton	598	1,161	951
Asphalt .. ..	do.	25,094	16,113	25,185
British Malaya (total imports)—				
Motor spirit .. ..	Long ton	269,319	290,877	280,485
Kerosene .. ..	do.	134,994	147,074	153,819
Fuel oil .. ..	do.	475,020	524,858	546,559
Lubricating oil .. ..	Gallon	5,928,685	5,695,974	6,090,910
Other oils .. ..	Long ton	9	11	30
Paraffin wax .. ..	do.	1,319	1,131	1,347
Asphalt and bitumen..	do.	16,016	20,058	28,865
Ceylon—				
Crude petroleum (total imports) .. ..	Gallon	54,154,070	52,930,008	53,364,579
Motor spirit .. ..	do.	6,946,194	8,349,092	10,501,262
Kerosene .. ..	do.	8,510,055	8,479,466	8,515,604
Lubricating oil .. ..	do.	906,061	985,273	894,134
Asphalt .. ..	Long ton	6,508	11,129	16,251
Cyprus—				
Crude petroleum .. ..	Gallon	603,891	706,344	842,063
Motor spirit, etc. .. ..	do.	496,344	845,276	1,085,101
Kerosene, etc. .. ..	do.	673,896	844,830	835,172
Lubricating oil .. ..	Long ton	319	451	609
Paraffin wax .. ..	do.	61	39	85
Palestine (total imports)—				
Crude petroleum, etc. ..	Long ton	5,285	5,990	7,309
Motor spirit .. ..	Gallon	1,623,920	2,478,596	52,184
do. (additional)	£	—	—	203,195
Kerosene .. ..	Long ton	24,492	28,445	gls.6,322,379
do. (additional)	£	—	—	62,502
Lubricating oil.. ..	Long ton	1,409	1,289	1,690
Paraffin wax .. ..	do.	61	66	50
Asphalt .. ..	do.	779	736	866

(a) Information not available.

(i) Excess of re-exports.

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

Importing Country and Description	Unit	1927	1928	1929
<b>BRITISH EMPIRE (<i>Cont.</i>)</b>				
<b>Australia—</b>				
Crude petroleum .. ..	Gallon	68,910,804	95,612,561	109,212,703
Motor spirit .. ..	do.	168,093,307	192,387,462	221,619,597
Kerosene .. ..	do.	33,034,367	39,726,600	39,988,852
Lubricating oil .. ..	do.	13,704,673	13,106,493	17,091,927
Residual and solar oils	do.	3,619,474	1,062,157	1,052,745
Petroleum jelly .. ..	Long ton	539	464	618
Greases .. ..	do.	1,995	1,994	2,792
Paraffin wax, etc. .. ..	do.	2,847	2,606	3,112
Mastic asphalt .. ..	do.	332	790	1,002
<b>Fiji Islands—</b>				
Motor spirit .. ..	Gallon	762,417	928,311	1,074,035
Kerosene .. ..	do.	411,244	395,350	387,875
Lubricating oil .. ..	do.	47,000	81,869	81,725
<b>New Zealand—</b>				
Crude petroleum, fuel oil, etc. .. ..	Gallon	32,952,717	37,760,729	28,349,403
Motor spirit .. ..	do.	48,034,382	54,462,252	62,403,206
Kerosene .. ..	do.	4,790,251	5,193,635	7,129,908
Lubricating oil .. ..	do.	2,971,885	2,906,127	3,249,642
Greases, etc. .. ..	Long ton	583	519	849
Other refined oils .. ..	Gallon	272,435	263,801	152,770
Paraffin wax .. ..	Long ton	1,090	1,616	1,626
Asphalt .. ..	do.	11,547	29,440	25,920
<b>Solomon Islands—</b>				
Motor spirit .. ..	Gallon	71,462	99,489	66,335
Kerosene .. ..	do.	80,323	77,638	104,621
Lubricating oil .. ..	do.	9,315	10,206	17,469
<b>Western Samoa—</b>				
Motor spirit .. ..	£	9,349	7,387	10,722
Kerosene .. ..	£	4,257	2,890	6,379
Lubricating oil .. ..	£	961	2,215	1,687
Fuel oil .. ..	£	(a)	(a)	227

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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES				
Austria—				
Crude petroleum ..	Long ton	33,405	46,319	50,383
Motor spirit .. ..	do.	62,872	85,934	102,306
Kerosene .. ..	do.	25,831	28,514	30,745
Gas oil .. ..	do.	22,348	27,026	31,426
Vaseline .. ..	do.	110	149	161
Paraffin wax, ozokerite and ceresin ..	do.	3,093	3,647	3,571
Asphalt products ..	do.	7,459	13,488	11,835
Petroleum coke ..	do.	3,016	2,993	3,263
Belgium-Luxemburg E.U.				
Crude petroleum ..	Long ton	1,339	2,607	1,175
Refined petroleum ..	do.	135,935	162,708	189,847
Kerosene .. ..	do.	90,015	74,846	69,640
Lubricating oil ..	do.	66,826	71,330	70,798
Fuel oil, etc. .. ..	do.	51,784	78,707	88,973
Other heavy oils ..	do.	486	749	1,952
Vaseline .. ..	do.	541	695	784
Paraffin wax and ozokerite .. ..	do.	6,094	7,069	7,063
Asphalt .. ..	do.	14,054	13,268	14,524
Residual asphalt ..	do.	2,690	3,942	8,461
Bulgaria—				
Motor spirit .. ..	Long ton	6,199	6,353	11,246
Kerosene .. ..	do.	24,305	26,428	32,477
Gas oil .. ..	do.	15,174	20,020	24,393
Fuel oil .. ..	do.	7,392	7,930	7,190
Lubricating oil, etc. ..	do.	4,320	6,419	7,919
Paraffin wax, ceresin, etc. .. ..	do.	401	258	489
Czechoslovakia—				
Crude oils .. ..	Long ton	93,250	129,744	153,395
Refined light oils ..	do.	139,473	160,963	73,179
Residual oils .. ..	do.	4,498	8	24
Refined heavy oils ..	do.	31,079	31,979	31,072
Paraffin wax, etc. ..	do.	1,336	982	1,467
Vaseline .. ..	do.	196	211	190
Asphalt products ..	do.	9,672	8,678	9,862

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Denmark—</b>				
Motor spirit .. ..	Long ton	137,516	150,230	171,640
Kerosene .. ..	do.	80,656	81,574	87,188
Fuel oil .. ..	do.	129,632	144,001	137,633
Crude residual oil .. ..	do.	7,069	4,354	4,699
Lubricating oil .. ..	do.	18,607	21,294	21,634
Other distillates .. ..	do.	2,342	29,253	(a)
Paraffin wax, etc. .. ..	do.	657	690	(a)
Asphalt rock .. ..	do.	10,682	7,440	9,907
<b>Estonia—</b>				
Crude petroleum .. ..	Long ton	3,249	2,563	2,830
Motor spirit .. ..	do.	4,358	4,952	5,713
Kerosene .. ..	do.	13,903	14,316	15,851
Lubricating oil .. ..	do.	2,205	2,234	2,444
Vaseline .. ..	do.	6	15	4
Paraffin wax, etc. .. ..	do.	222	234	228
Asphalt and tar .. ..	do.	234	131	324
<b>Finland—</b>				
Crude petroleum .. ..	Long ton	13,395	12,226	12,536
Kerosene .. ..	do.	34,140	43,121	35,693
Motor spirit .. ..	do.	47,706	54,245	66,665
Lubricating oil .. ..	do.	10,441	12,657	11,684
Vaseline .. ..	do.	277	334	403
Paraffin wax, etc. .. ..	do.	707	820	884
Asphalt and tar .. ..	do.	5,062	8,978	9,700
<b>France—</b>				
Crude petroleum .. ..	Long ton	4,883	13,840	23,021
Kerosene .. ..	Gallon	65,871,806	61,920,716	64,371,384
Motor spirit .. ..	do.	358,599,540	432,052,082	509,178,120
Lubricating oils .. ..	Long ton	221,930	264,042	275,817
Residual oils, etc. .. ..	do.	546,976	664,662	799,593
Paraffin wax .. ..	do.	6,884	10,281	7,090
Ozokerite .. ..	do.	315	528	617
Bitumen and asphalt.. ..	do.	37,638	17,503	23,771
<b>Germany—</b>				
Crude petroleum .. ..	Long ton	39,508	51,840	88,595
Motor spirit .. ..	do.	702,647	815,099	1,048,980
Kerosene .. ..	do.	163,015	128,576	146,460
Gas oil .. ..	do.	260,162	305,056	359,040
Lubricating oil .. ..	do.	380,564	517,227	647,449
Paraffin wax .. ..	do.	15,122	17,691	14,342
Ozokerite .. ..	do.	1,225	1,967	1,737
Asphalt .. ..	do.	137,113	57,616	53,946

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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES (Cont.)				
Greece—				
Kerosene .. ..	Long ton	24,230	23,993	28,860
Fuel oils .. ..	do.	50,404	58,577	63,347
Other oils and greases	do.	6,856	7,107	8,200
Motor spirit .. ..	do.	28,069	34,916	45,299
Paraffin wax, etc. ..	do.	8	3	9
Vaseline .. ..	do.	69	59	47
Asphalt and bitumen ..	do.	7,134	6,234	4,763
Hungary—				
Crude petroleum .. ..	Long ton	96,035	119,240	134,078
Motor spirit .. ..	do.	25,943	27,687	30,561
Kerosene .. ..	do.	21,223	22,155	20,834
Gas oil .. ..	do.	9,231	9,217	9,184
Lubricating oil .. ..	do.	10,753	10,333	7,559
Paraffin wax, etc. ..	do.	1,370	1,178	1,076
Vaseline .. ..	do.	194	209	178
Asphalt, bitumen and tar .. ..	do.	9,429	8,027	11,004
Italy—				
Crude oils .. ..	Long ton	46,072	49,683	58,851
Motor spirit .. ..	do.	251,668	317,060	380,669
Kerosene .. ..	do.	144,493	141,834	159,077
Lubricating oil .. ..	do.	79,694	80,512	79,663
Other oils and residues	do.	409,640	416,003	583,245
Vaseline .. ..	do.	200	397	385
Paraffin wax .. ..	do.	24,295	29,107	23,781
Ceresin .. ..	do.	75	100	101
Asphalt .. ..	do.	14,948	23,238	51,875
Jugoslavia—				
Crude petroleum, etc.	Long ton	55,124	81,410	101,456
Motor spirit .. ..	do.	11,070	7,490	4,638
Kerosene .. ..	do.	27,113	24,161	20,457
Gas oil, etc. .. ..	do.	9,338	3,646	1,563
Lubricating oil, etc. ..	do.	8,928	6,597	6,760
Paraffin wax .. ..	do.	2,315	1,965	2,372
Ozokerite and ceresin ..	do.	95	111	114
Asphalt .. ..	do.	6,819	7,261	5,109
Latvia—				
Crude petroleum .. ..	Long ton	9,635	12,524	13,366
Motor spirit .. ..	do.	3,979	5,661	8,253
Kerosene .. ..	do.	13,552	18,384	16,564

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>				
<b>Latvia (<i>Cont.</i>)—</b>				
Lubricating oil ..	Long ton	401	699	1,838
Paraffin wax .. ..	do.	274	290	343
Ozokerite and ceresin ..	do.	17	16	20
Asphalt .. ..	do.	684	59	84
<b>Lithuania—</b>				
Motor spirit .. ..	Long ton	9,478	11,933	12,813
Kerosene .. ..	do.	16,488	16,326	15,921
Lubricating oil.. ..	do.	2,400	2,581	2,284
Paraffin wax, etc. ..	do.	430	271	348
<b>Netherlands—</b>				
Crude petroleum ..	Long ton	245,439	202,586	234,395
Motor spirit .. ..	do.	156,189	195,157	223,648
Kerosene .. ..	do.	192,837	184,613	191,775
Fuel oil and gas oil ..	do.	254,818	243,899	256,290
Lubricating oil ..	do.	48,854	51,501	55,220
Greases .. ..	do.	(a)	1,813	1,927
Vaseline .. ..	do.	361	628	876
Paraffin wax .. ..	do.	5,640	8,210	7,921
Ozokerite and ceresin ..	do.	267	189	167
Asphalt .. ..	do.	18,064	15,672	16,143
<b>Norway—</b>				
Crude petroleum ..	Long ton	8,595	27,340	(a)
Motor spirit .. ..	do.	48,888	60,376	76,172
Kerosene .. ..	do.	49,044	45,875	37,774
Fuel oil.. ..	do.	91,820	84,730	(a)
Other oils, etc.. ..	do.	9,412	9,530	10,553
Asphalt, bitumen, etc..	do.	7,517	5,120	6,327
<b>Poland—</b>				
Fuel oil .. ..	Long ton	351	371	(a)
Lubricating oils .. ..	do.	2,859	3,349	3,763
Greases .. ..	do.	123	193	(a)
Vaseline .. ..	do.	173	248	225
Paraffin wax, etc. ..	do.	361	215	(a)
Asphalt rock .. ..	do.	974	3,831	1,996
Mastic asphalt and tar ..	do.	2,482	4,819	4,444

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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES(Cont.)				
Portugal—				
Motor spirit .. ..	Long ton	26,978	30,924	33,804
Kerosene .. ..	do.	30,142	38,033	34,692
Fuel oil (total imports)	do.	12,022	11,390	(a)
Lubricating oils ..	do.	4,829	3,786	(a)
Other oils .. ..	do.	17,923	19,204	34,971
Vaseline .. ..	do.	69	133	75
Paraffin wax .. ..	do.	1,158	1,138	1,115
Rumania—				
Motor spirit .. ..	Long ton	272	(a)	(a)
Petroleum residues ..	do.	28	(a)	(a)
Other oils .. ..	do.	3,145	(a)	(a)
Vaseline .. ..	do.	94	(a)	(a)
Paraffin wax .. ..	do.	1,308	(a)	(a)
Ceresin and ozokerite..	do.	65	(a)	(a)
Asphalt and bitumen..	do.	35	(a)	(a)
Russia (years ended Sept. 30)—				
Petroleum .. ..	Long ton	3,290	521	(a)
Vaseline .. ..	do.	412	525	378
Paraffin wax .. ..	do.	(a)	172	307
Ozokerite and ceresin	do.	124	223	141
Asphalt and tar ..	do.	318	610	317
Spain (total imports)—				
Crude petroleum .. ..	Long ton	11,006	32,155	27,012
Motor spirit .. ..	do.	202,120	223,234	276,381
Kerosene .. ..	do.	17,890	22,439	16,923
Fuel oil .. ..	do.	63,658	97,650	108,597
Lubricating oils ..	do.	31,679	28,589	24,529
Residual pitch .. ..	do.	13,725	39,159	52,856
Vaseline and oils of ..	do.	1,615	818	917
Paraffin wax .. ..	do.	9,229	9,187	5,542
Sweden—				
Crude and residual oils	Long ton	87,933	95,357	116,032
Motor spirit .. ..	Gallon	51,067,917	68,674,994	75,149,674
Kerosene .. ..	Long ton	63,696	75,037	67,777
Lubricating oil .. ..	do.	31,121	37,203	39,295
Vaseline .. ..	do.	187	198	255
Other refined oils ..	do.	3,521	2,982	3,603
Paraffin wax .. ..	do.	3,357	4,094	4,199

(a) Information not available.

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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES(Cont.)				
Sweden (Cont.)—				
Ozokerite .. ..	Long ton	115	153	148
Asphalt .. ..	do.	7,822	9,377	11,975
Pitch .. ..	do.	8,466	13,672	16,319
Switzerland—				
Motor spirit .. ..	Long ton	93,638	116,446	137,809
Kerosene, etc. .. ..	do.	24,014	24,101	26,368
Petroleum distillates, etc. .. ..	do.	1,177	1,419	1,686
Fuel oil .. ..	do.	47,323	55,609	70,050
Lubricating oil .. ..	do.	17,691	19,230	19,887
Vaseline .. ..	do.	250	289	303
Paraffin wax, etc. .. ..	do.	1,451	1,410	1,353
Asphalt and bitumen..	do.	1,843	1,524	1,644
Algeria--				
Motor spirit .. ..	Gallon	16,091,633	22,421,323	30,253,868
Refined petroleum .. ..	do.	7,203,157	9,161,420	11,868,937
do. (additional)	Long ton	26	—	—
Other distillates .. ..	do.	11,857	17,084	32,464
Greases, etc. .. ..	do.	9,651	12,962	13,612
Paraffin wax, etc. .. ..	do.	105	144	(a)
Vaseline .. ..	do.	43	31	(a)
Residual asphalt .. ..	do.	2,336	6,728	(b)
Asphalt and bitumen	do.	1,216	3,371	2,001
Angola—				
Petroleum .. ..	Long ton	968	1,132	(a)
Motor spirit .. ..	do.	3,985	4,590	(a)
Kerosene, etc. . . .	do.	244	800	(a)
Lubricating oil .. ..	do.	577	800	(a)
Tar and pitch .. ..	do.	60	79	(a)
Asphalt .. ..	do.	10	5	(a)
Belgian Congo—				
Motor spirit .. ..	Long ton	7,946	10,859	17,634
Kerosene .. ..	do.	1,843	4,104	2,799
Fuel-oil, etc. .. ..	do.	21,547	17,292	18,144
Lubricating oils and greases .. ..	do.	3,681	3,483	3,646
Cameroon(French)—				
Motor spirit .. ..	Long ton	1,542	2,176	2,515
Kerosene .. ..	do.	1,133	1,775	1,682
Heavy oils .. ..	do.	357	451	642



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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES (Cont.)</b>				
Dahomey—				
Motor spirit .. ..	Long ton	632	1,066	1,181
Kerosene .. ..	do.	2,725	3,593	2,846
Heavy oils .. ..	do.	285	235	310
Egypt—				
Motor spirit .. ..	Long ton	48,534	62,715	73,981
do. (additional) (c) ..	Gallon	105,128	40,240	81,408
Kerosene .. ..	Long ton	239,633	267,690	294,731
do. (additional) (c) ..	Gallon	69,168	19,160	111,104
Fuel oil (mazout) ..	Long ton	95,667	107,053	120,191
Solar oil .. ..	do.	5,578	3,576	2,193
Lubricating oil, etc. ..	do.	18,480	19,156	19,974
Vaseline .. ..	do.	57	75	43
Paraffin wax .. ..	do.	232	183	220
Asphalt and bitumen ..	do.	10,533	8,254	12,970
French Equatorial Africa—				
Motor spirit, etc. ..	Long ton	2,440	5,263	3,905
French Guinea—				
Motor spirit .. ..	Long ton	261	453	436
Kerosene .. ..	do.	464	658	571
Heavy oils .. ..	do.	180	205	127
French Sudan—				
Motor spirit .. ..	Long ton	614	1,267	1,327
Kerosene .. ..	do.	52	164	162
Heavy oils .. ..	do.	224	234	245
Ivory Coast—				
Motor spirit .. ..	Long ton	2,790	3,274	4,025
Kerosene .. ..	do.	1,085	2,080	1,750
Heavy oils .. ..	do.	530	869	1,066
Mozambique—				
Motor spirit .. ..	Long ton	1,616	2,386	4,312
Kerosene .. ..	do.	1,318	1,332	2,335
Fuel oil .. ..	do.	117	157	335
Lubricating oil .. ..	do.	571	796	1,197
Asphalt and bitumen	do.	92	137	659
Portuguese Guinea—				
Motor spirit .. ..	Long ton	337	410	542
Kerosene .. ..	do.	117	232	220
Fuel-oil .. ..	do.	30	(a)	(a)
Lubricating oil .. ..	do.	76	(a)	(a)

(a) Information not available. (b) Included with "other distillates."

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

	1927	1928	1929
Motor spirit ..	2,493,504	4,071,640	8,451,832
Kerosene ..	4,166,080	4,243,760	5,358,432

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Senegal—</b>				
Motor spirit (n) ..	Long ton	6,193	6,241	7,045
Kerosene .. ..	do.	1,293	1,807	1,626
Heavy oils .. ..	do.	2,053	2,570	3,102
Fuel oil (n) .. ..	do.	10,627	26,176	92,892
<b>Morocco—</b>				
<b>French Zone—</b>				
Fuel oil .. ..	Long ton	} 15,859	4,416	7,737
Kerosene .. ..	do.		15,451	20,383
Motor spirit .. ..	do.		29,520	54,459
Lubricating oil ..	do.		5,428	7,781
Paraffin wax .. ..	do.	411	727	683
<b>Tangier—</b>				
Motor spirit .. ..	Long ton	1,164	1,436	1,596
Kerosene .. ..	do.	383	411	453
Fuel oil .. ..	do.	488	575	519
Lubricating oil ..	do.	280	247	215
<b>Togoland—</b>				
Motor spirit .. ..	Long ton	862	1,202	1,093
Kerosene .. ..	do.	2,312	3,030	1,660
Heavy oils .. ..	do.	210	224	230
<b>Tunis—</b>				
Kerosene .. ..	Gallon	4,437,598	5,814,184	7,763,477
Motor spirit .. ..	do.	3,971,220	6,370,112	8,837,609
Fuel oil .. ..	Long ton	12,569	12,535	16,073
Vaseline .. ..	do.	15	12	11
Lubricating oils ..	do.	3,963	5,060	5,665
Paraffin wax .. ..	do.	37	82	89
Bitumen .. ..	do.	513	710	945
<b>Madagascar (total im- ports)—</b>				
Motor spirit, etc. ..	Long ton	4,154	4,833	(a)
Lubricating oil ..	do.	798	1,122	(a)
<b>Réunion—</b>				
Motor spirit .. ..	Long ton	856	946	1,251
Kerosene .. ..	do.	474	599	546
Heavy oils .. ..	do.	282	184	280
<b>Costa Rica (total imports)—</b>				
Crude petroleum ..	Long ton	26,070	24,430	} (a)
Motor spirit .. ..	do.	3,870	4,942	
Paraffin wax .. ..	do.	1,243	(a)	
Vaseline .. ..	do.	10	(a)	
Asphalt and bitumen ..	do.	124	(a)	

(n) Includes bunkers, see exports.

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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES(Cont.)				
Cuba (b)—				
Crude oils .. ..	Long ton	54,547	61,053	(a)
Motor spirit .. ..	do.	113,351	(c) 198,336,888	(a)
Fuel oil .. ..	do.	868,524	(c) 820,375,660	(a)
Other mineral oils ..	do.	16,433	17,211	(a)
Tar .. ..	do.	821	297	(a)
Asphalt rock .. ..	do.	1,466	453	(a)
Dominican Republic (b)—				
Motor spirit .. ..	Gallon	3,131,559	3,952,878	3,837,858
Kerosene .. ..	do.	835,309	1,201,701	1,266,861
Fuel oil .. ..	Long ton	26,602	23,577	43,538
Lubricating oil ..	do.	4,033	2,277	1,495
Dutch West Indies—				
Crude petroleum ..	Long ton	4,196,449	9,711,078	5,177,300
Motor spirit .. ..	Gallon	79,719	211,120	9,850
Kerosene .. ..	do.	77,667	108,553	(a)
Fuel oil and gas oil ..	Long ton	12,691	258,923	357,000
Lubricating oil ..	Gallon	40,113	6,669	(a)
Guadeloupe—				
Motor Spirit .. ..	Long ton	612	937	(a)
Kerosene .. ..	do.	928	870	(a)
Guatemala—				
Crude petroleum ..	Long ton	48,753	48,313	(a)
Motor spirit .. ..	do.	4,888	9,167	(a)
Kerosene .. ..	do.	2,550	3,599	(a)
Lubricating oil ..	do.	493	579	(a)
Paraffin wax .. ..	do.	1,318	1,353	(a)
Martinique—				
Motor spirit .. ..	Long ton	1,282	1,675	2,411
Kerosene .. ..	do.	835	980	1,091
Lubricating oil ..	do.	245	346	355
Fuel oil .. ..	do.	292	378	551
Mexico—				
Crude petroleum ..	Long ton	702,336	38,928	(a)
Motor spirit .. ..	do.	43,123	43,894	40,773
Kerosene .. ..	do.	7,989	5,534	5,470
Fuel oil and gas oil ..	do.	136,434	166,440	129,243
Paraffin wax .. ..	do.	9,098	7,706	11,000
Lubricating oil, etc. ..	do.	12,552	13,250	14,159
Vaseline .. ..	do.	161	183	(a)
Nicaragua (b)—				
Crude petroleum ..	Long ton	12,567	16,881	13,819
Kerosene .. ..	Gallon	687,005	736,375	789,362
Motor spirit .. ..	do.	610,043	885,372	1,062,693
Lubricating oil ..	Long ton	405	574	573

(a) Information not available.

(b) Total imports.

(c) Gallons. In addition to above 23,091,168 gallons of crude oil were imported.

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Panama—</b>				
Motor spirit .. ..	Long ton	962	674	1,097
Kerosene .. ..	do.	2,322	2,627	2,732
Fuel oil .. ..	do.	9,315	8,896	(a)
Lubricating oil .. ..	do.	955	964	1,066
Mineral grease .. ..	do.	50	28	57
Asphalt .. ..	do.	89	112	138
Tar and pitch .. ..	do.	45	68	46
Paraffin wax .. ..	do.	32	33	39
<b>Salvador—</b>				
Crude petroleum .. ..	Long ton	9,215	19,130	(a)
Motor spirit .. ..	do.	4,372	6,464	4,940
Kerosene .. ..	do.	1,678	2,079	2,010
Paraffin wax .. ..	do.	694	503	600
Asphalt .. ..	do.	1,023	1,018	(a)
<b>United States—</b>				
Crude petroleum .. ..	Gallon	2,043,383,685	2,791,798,695	2,762,639,705
Motor spirit, etc. .. ..	do.	175,080,710	146,919,780	309,200,570
Kerosene (b) .. ..	do.	1,940,120	7,061,075	7,280,280
Topped oils, including fuel oil (b) .. ..	do.	284,346,720	254,385,145	719,092,430
Tops and other un- finished distillates (b)	do.	3,195,605	698,670	182,105
Lubricating oil (b) .. ..	do.	278,320	442,610	1,377,390
Paraffin wax, etc. .. ..	Long ton	9,135	11,045	18,141
Mineral wax .. ..	do.	2,012	4,338	3,747
Asphalt and bitumen .. ..	do.	141,158	106,775	108,053
<b>Argentina—</b>				
Crude petroleum .. ..	Long ton	190,537	312,453	(a)
Motor spirit .. ..	Gallon	81,064,101	87,733,687	(a)
do. (additional) .. ..	Long ton	29	18	(a)
Kerosene .. ..	do.	570	630	(a)
do. (additional) .. ..	Gallon	19,646,160	13,413,400	(a)
Fuel oil and gas oil .. ..	Long ton	644,241	794,000	(a)
Lubricating oil .. ..	do.	40,779	44,185	(a)
Vaseline .. ..	do.	333	376	(a)
Grease .. ..	do.	1,744	1,882	(a)
Paraffin wax .. ..	do.	8,600	8,363	(a)
Asphalt rock .. ..	do.	4,518	11,329	(a)
Trinidad asphalt .. ..	do.	18,290	26,013	(a)
Asphalt for roofing .. ..	do.	1,317	1,884	(a)

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Bolivia—</b>				
Crude petroleum ..	Long ton	19,847	(a)	(a)
Motor spirit .. ..	do.	4,365	(a)	(a)
Kerosene .. ..	do.	1,834	(a)	(a)
Paraffin wax .. ..	do.	2,306	(a)	(a)
Other products ..	do.	1,702	(a)	(a)
<b>Brazil (total imports)—</b>				
Motor spirit .. ..	Long ton	198,076	250,327	288,988
Kerosene .. ..	do.	110,075	102,059	115,404
Fuel oil .. ..	do.	352,766	333,591	331,435
Lubricating oil ..	do.	33,573	37,810	44,647
Vaseline .. ..	do.	435	292	251
Greases.. ..	do.	1,151	1,659	1,929
Paraffin wax .. ..	do.	1,117	1,448	1,201
Asphalt .. ..	do.	7,270	23,993	19,501
<b>Chile—</b>				
Crude petroleum ..	Long ton	588,475	755,240	976,231
Motor spirit .. ..	do.	44,333	50,433	(c) 8,436
Kerosene .. ..	do.	18,223	17,474	(c) 1,212
Lubricating oil ..	do.	10,150	12,606	14,333
Vaseline .. ..	do.	44	70	99
Greases.. ..	do.	865	1,232	1,249
Ozokerite .. ..	do.	7,205	30	12
Crude asphalt .. ..	do.	1,500	1,724	2,103
Paraffin wax .. ..	do.	(a)	12,324	6,985
<b>Colombia—</b>				
Petroleum .. ..	Long ton	770	} (a)	(a)
Motor spirit .. ..	do.	22,506		
Paraffin wax .. ..	do.	5,661		
Vaseline .. ..	do.	75		
Asphalt, etc. .. ..	do.	925		
<b>French Guiana—</b>				
Motor spirit .. ..	Long ton	109	190	100
Kerosene .. ..	do.	340	292	402
Lubricating oil ..	do.	45	47	89
<b>Peru—</b>				
Crude petroleum ..	Long ton	20	4,569	2
Motor spirit, etc. ..	do.	21	26	407
Lubricating oil ..	do.	3,397	2,842	3,001
Vaseline .. ..	do.	26	42	41
Paraffin wax .. ..	do.	3,048	2,849	4,306
Asphalt and bitumen	do.	1,785	1,602	2,638
Greases .. ..	do.	572	435	450

(a) Information not available.

(b) Total imports.

(c) In addition 4,765,077 gallons of kerosene and 25,459,847 gallons of motor spirit were imported.

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES(Cont.)</b>				
<b>Uruguay—</b>				
Crude petroleum ..	Gallon	13,391,541	16,973,217	20,548,785
Motor spirit .. ..	do.	1,649,329	1,936,570	1,477,743
Kerosene .. ..	do.	7,781,311	8,863,332	8,947,800
Gas oil .. ..	Long ton	2,340	2,179	9,286
Fuel oil .. ..	do.	185,549	227,712	208,865
Lubricating oil and greases .. ..	do.	5,559	7,734	5,400
Paraffin wax .. ..	do.	267	577	210
Vaseline .. ..	do.	27	21	22
Asphalt .. ..	do.	2,448	1,380	2,280
<b>Venezuela—</b>				
Motor spirit .. ..	Long ton	7,381	978	(a)
Kerosene .. ..	do.	794	1,071	(a)
Fuel oil .. ..	do.	1,882	2,038	(a)
Lubricating oil .. ..	do.	46	(a)	(a)
Asphalt .. ..	do.	270	339	(a)
Paraffin wax .. ..	do.	1,676	1,906	(a)
<b>China—</b>				
Motor spirit .. ..	Gallon	11,002,872	16,701,325	23,870,298
Kerosene .. ..	do.	136,640,948	218,993,841	199,386,078
Fuel oil .. ..	Long ton	156,546	221,668	183,909
Lubricating oil .. ..	Gallon	6,637,043	10,160,776	11,237,032
Paraffin wax .. ..	Long ton	19,719	41,078	35,416
<b>Dutch East Indies—</b>				
Motor spirit .. ..	Gallon	787,207	713,748	(a)
Kerosene .. ..	do.	7,877,437	8,188,755	(a)
Fuel oil .. ..	do.	1,719,448	3,306,835	(a)
Lubricating oil .. ..	Long ton	11,194	12,374	(a)
Vaseline .. ..	do.	48	62	(a)
Greases .. ..	do.	544	665	(a)
Paraffin wax .. ..	do.	848	1,050	(a)
Ceresin .. ..	do.	215	140	(a)
Pitch .. ..	do.	10	5	(a)
Asphalt .. ..	do.	22,068	24,742	(a)
<b>Formosa—</b>				
Crude and heavy oils	Gallon	3,700,856	7,345,686	6,572,571
Motor spirit .. ..	do.	281,076	375,411	907,323
Kerosene .. ..	do.	3,010,952	2,478,324	3,294,344
Lubricating oil .. ..	do.	174,331	345,903	338,117
Other oils .. ..	Long ton	10,901	569	(a)
Paraffin wax .. ..	do.	249	304	154

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

Importing Country and Description	Unit	1927	1928	1929
<b>FOREIGN COUNTRIES(<i>Cont.</i>)</b>				
<b>French Indo-China—</b>				
Refined petroleum ..	Long ton	51,136	60,365	61,234
Distillates .. ..	do.	19,136	27,003	30,555
Heavy oils, etc. ..	do.	8,234	21,979	23,933
Vaseline .. ..	do.	18	(a)	(a)
Paraffin wax, etc. ..	do.	1,366	1,683	1,105
Asphalt and bitumen..	do.	2,678	167	244
<b>Japan (b) (g)—</b>				
Crude oils .. ..	Gallon	162,656,200	380,554,900	419,816,100
Motor spirit .. ..	do.	18,201,200	10,433,600	9,813,200
Kerosene .. ..	do.	48,220,100	68,507,100	90,401,100
Lubricating oil ..	do.	5,262,600	5,799,200	6,572,300
do. ( <i>additional</i> ) ..	Long ton	19,763	23,623	21,855
Vaseline .. ..	do.	512	656	462
Paraffin wax .. ..	do.	19,041	20,831	16,857
<b>Korea (b)—</b>				
Crude oils .. ..	Gallon	3,787,000	5,129,000	6,296,000
Motor spirit .. ..	do.	1,944,000	2,650,000	4,926,000
Kerosene .. ..	do.	12,377,000	6,631,000	11,264,000
Lubricating oil ..	Long ton	7,148	8,305	9,470
Paraffin wax .. ..	do.	588	570	960
<b>Persia (b) (k)—</b>				
Crude petroleum ..	Long ton	64	—	267
Motor spirit .. ..	do.	5,665	6,910	12,097
Kerosene .. ..	do.	31,248	32,732	33,141
Greases.. ..	do.	329	351	1,755
Fuel and lubricating oils	do.	1,900	3,586	4,860
<b>Philippine Islands—</b>				
Crude oil .. ..	Gallon	35,565,374	33,147,556	50,076,080
Motor spirit .. ..	do.	11,838,280	19,093,131	21,388,256
Kerosene .. ..	do.	14,363,012	14,915,745	18,605,367
Lubricating oil ..	do.	2,001,283	3,297,180	2,495,269
Residual oils .. ..	Long ton	789	1,085	1,156
Other distillates ..	do.	37,747	186,582	152,774
Mineral wax .. ..	do.	1,475	2,124	1,941
Asphaltum .. ..	do.	1,270	3,468	4,030

(a) Information not available.

(b) Total imports.

(g) Excluding fuel-oil imported on government account.

(k) Years ended 20 March of the year stated.

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

Importing Country and Description	Unit	1927	1928	1929
FOREIGN COUNTRIES( <i>Cont.</i> )				
Siam (total imports)—				
Motor Spirit .. ..	Gallon	3,735,657	4,157,644	5,230,509
Kerosene .. ..	do.	9,445,388	9,309,023	9,977,555
Fuel oil .. ..	do.	5,971,429	6,199,122	8,644,716
Lubricating oil ..	do.	1,160,318	1,275,265	1,276,202
Syria—				
Motor spirit .. ..	Long ton	15,588	23,690	32,400
Kerosene .. ..	do.	25,845	27,650	36,000
Fuel oil and gas oil ..	do.	2,880	2,320	4,300
Timor—				
Petroleum .. ..	Long ton	149	178	(a)
Turkey—				
Crude petroleum ..	Long ton	210	152	214
Motor spirit .. ..	do.	17,766	25,093	31,259
Kerosene .. ..	do.	47,476	46,783	52,143
Fuel oil .. ..	do.	152	655	(b)8,175
Paraffin wax, etc. ..	do.	521	242	} 806
Vaseline .. ..	do.	426	275	
New Caledonia—				
Petroleum .. ..	Long ton	1,917	(a)	(a)
Iceland—				
Motor spirit .. ..	Long ton	1,796	3,025	(a)
Kerosene .. ..	do.	6,245	6,396	(a)
Solar and gas-oils ..	do.	2,717	5,166	(a)
Lubricating oils ..	do.	516	915	(a)

(a) Information not available.

(b) Including other heavy oils from October 1st.



## PHOSPHATES

## PRODUCTION OF PHOSPHATE-ROCK

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Seychelles (exports) ..	11,150	15,165	12,587
Canada (sales) .. ..	135	572	1,058
India .. .. .	603	805	22
Christmas Island .. ..	116,680	111,891	120,000
Australia .. .. .	879	136	70
Nauru and Ocean Islands ..	549,660	543,715	552,835
Total ..	680,000	670,000	690,000
<b>FOREIGN COUNTRIES</b>			
Belgium .. .. .	39,132	15,265	(a)
Estonia .. .. .	3,520	6,751	8,220
France .. .. .	214,000	(a)	(a)
Germany—			
Prussia .. .. .	436	(a)	(a)
Poland .. .. .	(a)	(a)	37,900
Russia (years ended Sept. 30) .. .. .	55,568	(a)	(a)
Spain .. .. .	4,136	7,772	(a)
Algeria .. .. .	904,000	804,169	766,078
Egypt .. .. .	274,976	197,395	211,910
Madagascar .. .. .	6,378	8,200	12,300
Morocco (French Zone) (sales) .. .. .	1,178,822	1,315,962	1,582,752
Tunis .. .. .	3,026,386	2,744,952	2,471,305
Dutch West Indies (exports)	107,161	102,548	100,082
United States .. .. .	3,025,149	3,523,230	3,761,164
French Indo-China .. ..	20,337	19,319	17,489
Japan .. .. .	74,195	57,848	(a)
Philippine Islands .. ..	694	1,333	(a)
Angaur Island (estimated)	62,131	60,000	60,000
Makatea (exports) .. ..	133,523	129,232	210,000
New Caledonia .. .. .	9,000	7,000	(a)
Total ..	9,100,000	9,300,000	9,400,000
<b>WORLD'S TOTAL</b>	<b>9,800,000</b>	<b>10,000,000</b>	<b>10,100,000</b>

During 1929 Rumania produced 800 cu. metres of phosphatic guano.

(a) Information not available.

## PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom (i) ..	510,858	498,770	597,279
Canada .. .. .	1,206	4,606	(a)
Australia .. .. .	735,728	719,947	(a)
FOREIGN COUNTRIES			
Austria .. .. .	47,893	44,801	54,615
Belgium .. .. .	344,500	344,000	297,000
Czechoslovakia .. .. .	198,764	214,428	238,661
Denmark .. .. .	276,000	236,000	267,000
Finland .. .. .	19,411	45,774	39,417
France .. .. .	1,960,000	2,313,000	2,309,720
Germany .. .. .	739,000	738,000	775,000
Greece .. .. .	29,959	39,188	86,665
Hungary .. .. .	113,000	124,000	148,000
Italy .. .. .	1,348,000	1,033,000	1,279,500
Latvia .. .. .	32,000	45,552	47,032
Jugoslavia .. .. .	65,900	74,420	87,654
Netherlands .. .. .	621,000	635,000	623,232
Norway .. .. .	13,616	14,400	24,700
Poland .. .. .	323,500	340,000	325,000
Portugal .. .. .	150,000	179,000	202,000
Rumania .. .. .	(a)	14,000	15,000
Russia (years ended Sept. 30) .. .. .	89,975	151,683	196,421
Spain .. .. .	850,665	881,013	989,744
Sweden .. .. .	215,284	239,209	241,000
Switzerland .. .. .	26,000	25,753	29,307
Algeria .. .. .	85,000	} 172,100	167,500
Tunis .. .. .	64,000		
Morocco .. .. .	24,000		
United States .. .. .	3,095,302	4,008,368	3,836,052
Japan .. .. .	920,084	911,546	(a)

(a) Information not available.

(i) Including Irish Free State, the production of which in 1926 was 71,321 long tons.

## PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom (years ended Sept. 30.) (b) ..	664,700	663,458	(a)
Canada .. .. .	2,142	(a)	—
FOREIGN COUNTRIES			
Belgium .. .. .	872,695	940,532	(a)
Czechoslovakia .. ..	143,002	152,485	(a)
France—			
Saar .. .. .	304,978	324,771	(a)
Other districts .. ..	1,205,366	1,452,000	(a)
Germany .. .. .	1,742,368	1,613,254	(a)
Luxemburg .. .. .	561,636	588,767	625,449
Poland .. .. .	26,025	32,600	(a)
Sweden .. .. .	9,680	9,346	(a)
United States .. ..	—	17,857	(a)

(a) Information not available.

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

1927	206,743 long tons
1928	218,128 „ „
1929	316,486 „ „

## EXPORTS OF PHOSPHATES, ETC.

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom ( <i>d</i> )—			
Superphosphates .. ..	9,482	12,621	19,027
Basic slag .. ..	13,795	22,292	23,015
Seychelles—			
Phosphatic guano .. ..	11,150	15,165	12,587
Canada—			
Phosphate-rock .. ..	—	—	46
Christmas Island (including re-exports)—			
Phosphate-rock .. ..	116,680	111,891	120,000
Australia (including re- exports)—			
Superphosphates .. ..	2	—	17
New Zealand—			
Superphosphates .. ..	421	475	899
Nauru and Ocean Islands—			
Phosphate-rock .. ..	549,660	543,715	552,835
FOREIGN COUNTRIES			
Austria—			
Superphosphates .. ..	1,510	2,975	169
Basic slag .. ..	15	5	95
Belgium-Luxemburg E.U.—			
Phosphate-rock .. ..	172,200	109,744	108,949
Superphosphates .. ..	250,347	251,429	198,432
Basic slag .. ..	991,349	1,185,946	1,205,458
Czechoslovakia—			
Superphosphates .. ..	2,282	1,745	280
Basic slag .. ..	13,524	16,274	14,971
Denmark—			
Superphosphates .. ..	32,739	26,700	3,845
Estonia—			
Phosphate-rock .. ..	32	546	62

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

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
France—			
Phosphate-rock .. ..	16,273	4,185	8,249
Superphosphates .. ..	275,212	254,948	216,952
Basic slag .. .. .	1,065,388	1,021,293	940,672
Germany—			
Phosphate-rock, etc. ..	3,541	4,816	7,521
Superphosphates .. ..	79,418	95,372	143,425
Basic slag .. .. .	233,728	429,211	237,057
Hungary—			
Superphosphates .. ..	134	2	3,701
Italy—			
Phosphate-rock .. ..	—	121	221
Superphosphates, including bone superphosphates ..	25,727	23,188	22,287
Basic slag .. .. .	—	37	260
Jugoslavia—			
Superphosphates .. ..	13,038	9,394	8,062
Latvia—			
Superphosphates .. ..	3,161	20,660	33,178
Basic Slag .. .. .	76	180	44
Netherlands—			
Phosphate-rock .. ..	718	31	—
Superphosphates .. ..	478,362	469,195	426,431
Basic slag .. .. .	1,112	1,337	295
Norway—			
Phosphate-rock .. ..	336	—	—
Superphosphates .. ..	199	490	506
Poland—			
Superphosphates .. ..	11,988	34,437	24,724
Basic slag .. .. .	193	84	381
Portugal—			
Superphosphates .. ..	(a)	2,344	1,259
Rumania—			
Superphosphates .. ..	21,661	346	(a)
Sweden—			
Superphosphates .. ..	49,147	65,307	55,528
Algeria—			
Phosphate-rock .. ..	862,464	754,723	795,621
Superphosphates .. ..	19,788	19,244	31,425
Egypt—			
Phosphate-rock .. ..	269,993	166,126	213,151
Madagascar—			
Phosphate-rock .. ..	6,240	8,169	12,303

(a) Information not available.

(d) Including exports to Irish Free State. See also note (i) p. 260.

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

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Morocco (French Zone)—			
Phosphate-rock .. ..	1,138,932	1,308,908	1,552,660
Superphosphates .. ..	22,232	18,213	23,321
Tunis (including re-exports)—			
Phosphate-rock .. ..	2,909,483	2,641,533	2,970,057
Superphosphates .. ..	246	6	6
Dutch West Indies—			
Phosphate-rock .. ..	107,161	102,458	100,082
United States—			
Phosphate-rock .. ..	918,256	898,764	1,142,746
Superphosphates .. ..	107,462	88,613	85,118
Makatea—			
Phosphate-rock .. ..	133,523	129,232	210,000
New Caledonia—			
Phosphate-rock .. ..	10,732	10,480	(a)

(a) Information not available.

## IMPORTS OF PHOSPHATES, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Phosphate-rock .. ..	404,395	272,997	377,532
Superphosphates .. ..	165,966	123,476	130,517
Basic slag .. ..	76,277	43,013	33,901
Irish Free State—			
Phosphate-rock .. ..	70,926	60,630	93,335
Superphosphates .. ..	40,524	38,884	44,462
Basic slag .. ..	38,392	30,243	34,928
Mauritius—			
Superphosphates .. ..	1,004	844	825
Southern Rhodesia—			
Superphosphates .. ..	4,573	3,249	6,263
Union of South Africa—			
Phosphate-rock .. ..	56,881	66,892	45,701
Superphosphates .. ..	53,599	85,518	102,155
Basic slag .. ..	12,684	16,049	11,048
Canada—			
Phosphate-rock .. ..	15,611	9,275	16,243
Superphosphates .. ..	77,311	87,044	87,433
Basic slag .. ..	5,778	12,482	12,166
Ceylon—			
Superphosphates .. ..	5,886	5,528	5,503
Basic slag .. ..	3,248	3,126	2,292
Australia—			
Phosphate-rock .. ..	504,194	539,336	583,524
Superphosphates .. ..	87	55	430
New Zealand—			
Phosphate-rock .. ..	165,345	134,302	154,909
Superphosphates .. ..	6,526	987	900
Basic slag .. ..	38,626	91,541	94,498
FOREIGN COUNTRIES			
Austria—			
Phosphate-rock .. ..	24,354	28,286	24,121
Superphosphates .. ..	5,205	4,930	2,355
Basic slag .. ..	43,517	61,920	52,228
Belgium-Luxemburg E.U.—			
Phosphate-rock .. ..	313,004	312,957	353,420
Superphosphates .. ..	29,433	37,953	42,065
Basic slag .. ..	68,583	109,105	103,257

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Phosphate-rock .. ..	98,632	140,412	143,815
Superphosphates .. ..	18,311	15,171	18,208
Basic slag .. ..	10,691	38,622	44,289
Denmark—			
Phosphate-rock .. ..	149,182	128,559	156,576
Superphosphates .. ..	104,187	124,438	190,351
Basic slag .. ..	13,875	12,744	8,845
Estonia—			
Superphosphates .. ..	23,009	28,600	28,440
Basic slag .. ..	1,847	3,131	952
Finland—			
Phosphate-rock .. ..	19,048	24,298	18,764
Superphosphates .. ..	43,956	31,261	9,654
Basic slag .. ..	48,331	45,882	25,433
France—			
Phosphate-rock .. ..	1,484,652	1,388,171	1,592,214
Superphosphates .. ..	14,257	8,044	11,726
Basic slag .. ..	343	3,731	3,754
Germany—			
Phosphate-rock, etc. ..	895,467	781,612	895,208
Superphosphates .. ..	87,880	112,193	114,506
Basic slag .. ..	1,019,753	1,142,256	1,098,152
Hungary—			
Phosphate-rock .. ..	44,220	70,869	83,183
Superphosphates .. ..	34,831	25,982	19,463
Basic slag .. ..	4,319	9,338	7,167
Italy—			
Phosphate-rock .. ..	857,727	609,840	757,348
Superphosphates, including bone superphosphates ..	51,106	35,834	22,054
Basic slag .. ..	98,320	104,886	65,816
Yugoslavia—			
Phosphate-rock (estimated)	37,700	41,200	50,000
Superphosphates .. ..	604	452	487
Basic slag .. ..	1,398	3,105	2,992
Latvia—			
Phosphate-rock .. ..	6,306	22,643	23,095
Superphosphates .. ..	41,380	33,326	24,896
Basic slag .. ..	19,858	29,206	23,805
Lithuania—			
Superphosphates .. ..	66,444	68,028	43,290



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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Phosphate-rock .. ..	417,264	368,340	388,686
Superphosphates .. ..	99,604	106,374	89,036
Basic slag .. .. .	405,727	416,443	363,032
Norway—			
Phosphate-rock .. ..	9,678	11,421	15,575
Superphosphates .. ..	26,896	24,402	33,053
Basic slag .. .. .	11,786	20,943	10,069
Poland—			
Phosphate-rock .. ..	198,987	143,492	220,468
Superphosphates .. ..	2,600	2,949	2,828
Basic slag .. .. .	167,659	269,473	272,740
Portugal—			
Phosphate-rock .. ..	69,312	97,266	118,689
Superphosphates .. ..	13,339	6,299	4,134
Rumania—			
Phosphate-rock .. ..	4,907	(a)	(a)
Superphosphates .. ..	905	(a)	(a)
Russia (years ended Sept. 30)—			
Phosphate-rock .. ..	117	—	23,357
Superphosphate .. ..	993	61,480	88,177
Basic slag .. .. .	1,295	7,288	(a)
Spain (total imports)—			
Phosphate-rock .. ..	461,364	544,110	553,237
Superphosphates .. ..	190,862	132,046	52,762
Basic slag .. .. .	14,429	13,597	9,996
Sweden—			
Phosphate-rock .. ..	127,301	144,081	135,470
Superphosphates .. ..	19,441	19,732	16,749
Basic slag .. .. .	4,091	4,871	59
Switzerland—			
Basic slag .. .. .	124,395	99,566	101,763
Algeria—			
Superphosphates .. ..	36,757	27,842	22,206
Egypt—			
Superphosphates .. ..	43,141	38,646	59,576
Tunis—			
Superphosphates .. ..	7,642	13,915	17,503
Guadeloupe—			
Superphosphates .. ..	401	(a)	(a)
Martinique—			
Superphosphates .. ..	1,514	1,037	(a)

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
United States—			
Phosphate-rock .. ..	28,195	45,812	44,899
Other crude phosphates .. ..	17,509	2,822	40
Basic slag .. ..	1,625	1,754	3,998
Chile—			
Superphosphates .. ..	1,919	3,493	5
Dutch East Indies—			
Phosphate-rock and super- phosphates .. ..	7,694	8,976	(a)
French Indo-China—			
Superphosphates .. ..	135	(a)	(a)
Formosa—			
Phosphate-rock .. ..	4,586	4,000	(a)
Japan—			
Phosphate-rock .. ..	400,801	465,839	550,241
Philippine Islands—			
Superphosphates .. ..	2,245	3,162	2,829

(a) Information not available.

## PLATINUM

### PRODUCTION OF PLATINUM METALS (Troy ounces)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Sierra Leone—			
Crude .. .. .	—	—	26
Union of South Africa—			
Crude (content) .. ..	12,941	14,656	24,084
Concentrates (content)	6,629	9,007	5,730
Osmiridium .. .. .	5,473	5,671	5,810
Canada—			
Platinum from placers (content) .. .. .	11	49	(a)
Recovered from Ontario nickel-copper matte:			
Platinum .. .. .	11,217	10,483	} 26,334
Palladium .. .. .	11,247	11,389	
Other metals .. ..	298	1,698	
New South Wales—			
Platinum from placers	226	354	128
Tasmania—			
Osmiridium from placers	633	1,627	1,360
New Zealand—			
Platinum from placers ..	33	(d) 35	7
Papua (years ended June 30)			
Osmiridium from placers	60	215	(a)
<b>FOREIGN COUNTRIES</b>			
Russia—			
Crude platinum .. .. .	(j) 100,000	(j) 100,000	(a)
Abyssinia (estimated)—			
Platinum .. .. .	1,200	2,500	5,000
United States—			
Platinum from placers ..	153	528	797
Domestic crude platinum purchased by refiners	236	365	516
New platinum metals re- covered by refineries (i)	46,050	59,039	47,977
Colombia (exports)—			
Platinum .. .. .	70,055	(a)	(a)
Japan—			
Platinum from placers ..	47	100	(a)

(a) Information not available.

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

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

(j) Estimated.

## EXPORTS OF PLATINUM.\*

*(Domestic Produce)*

(Troy ounces)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Unrefined platinum ..	742	101	73
Refined platinum .. ..	49,808	21,331	24,310
Alloys .. ..	255	341	141
Union of South Africa—			
Osmiridium .. .. .	5,196	5,505	5,695
Platinum .. .. .	10,431	16,273	20,802
Canada—			
Concentrates, etc. (metal content) .. .. .	771	1,212	2,798
Scrap .. .. .	221	424	112
Australia (including re-exports)—			
Bars, blocks, rods, plates, etc.	1,362	951	609
Osmiridium .. .. .	1,095	512	239
Papua (years ended June 30)—			
Osmiridium .. .. .	26	37	29
FOREIGN COUNTRIES			
Austria—			
Sheets .. .. .	129	129	96
Belgium-Luxemburg E.U.—			
Unwrought platinum ..	(£5,620)	(£1,340)	(£9,540)
France—			
Unwrought platinum and scrap .. .. .	579	257	96
Drawn or rolled platinum ..	129	225	1,190
Italy—			
Rods, bars, dust, scrap, etc.	739	997	32
Germany—			
Platinum metals .. ..	87,663	83,397	88,306
Poland—			
Ingots, sheets, wire, etc. ..	29	17	19
Russia (years ended Sept. 30)	163,100	78,925	93,800
Sweden—			
Unwrought platinum ..	33	27	25

EXPORTS OF PLATINUM (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Switzerland—			
Unwrought platinum ..	161	418	482
Egypt—			
Platinum .. .. .	7	17	(a)
United States—			
Unwrought platinum ..	19,923	9,050	2,567
Colombia—			
Crude platinum .. ..	39,995	(a)	(a)
Other platinum .. ..	30,060	(a)	(a)

\* Official figures as given by the countries concerned, and do not include platinum transported by letter post.

(a) Information not available.

IMPORTS OF PLATINUM. \*  
(Less Re-exports)  
(Troy ounces)

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Unrefined platinum .. .. .	20,977	37,251	4,458
Refined platinum .. .. .	5,859	21,655	4,024
Alloys .. .. .	262	56	7
<b>Canada—</b>			
Bars, sheets, wire, etc. ..	(£19,452)	(£28,462)	(£32,245)
<b>Newfoundland (year ended June 30)—</b>			
Platinum .. .. .	(£19)	(£1)	(£510)
<b>Australia—</b>			
Bars, rods, plates, etc. ..	451	798	798
<b>New Zealand—</b>			
Bars, blocks and rods, etc.	31	41	65
<b>FOREIGN COUNTRIES</b>			
<b>Austria—</b>			
Sheets .. .. .	1,286	2,540	2,218
<b>Belgium-Luxemburg E. U. —</b>			
Unwrought platinum ..	{ 900 (£13,300) }	{ 3,000 (£46,300) }	{ 3,000 (£32,200) }
<b>Denmark—</b>			
Rods, sheets and wire ..	90	96	(a)
<b>Finland—</b>			
Unwrought platinum ..	5	25	35
<b>France—</b>			
Ore .. .. .	25,700	—	—
Unwrought platinum and scrap .. .. .	25,400	15,500	37,700
Drawn or rolled platinum..	1,060	8,490	2,930
<b>Germany—</b>			
Platinum metals .. .. .	224,246	98,871	125,986
<b>Italy—</b>			
Bars, rods, dust and scrap..	3,183	2,701	1,736
Sheets and foil .. .. .	1,190	1,286	2,025
Wire .. .. .	836	322	643
<b>Latvia—</b>			
Ingots, sheets and wire ..	116	(a)	7
<b>Netherlands—</b>			
Unwrought platinum ..	129	225	772
<b>Norway—</b>			
Unwrought platinum ..	£32	—	45
Sheets and rolled .. .. .	16	90	7
<b>Poland—</b>			
Ingots, sheets and wire ..	100	222	173

IMPORTS OF PLATINUM (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Spain (total imports)—			
Unwrought platinum ..	—	257	—
Sweden—			
Unwrought platinum ..	298	120	33
Switzerland—			
Unwrought platinum ..	579	643	1,029
Egypt (total imports)—			
Platinum .. .. .	585	1,221	1,252
United States—			
Platinum content of ore ..	—	686	564
Unwrought platinum,	128,544	107,761	114,657
Iridium, palladium, etc. ..	20,188	26,747	39,842
Cuba—			
Bars and dust .. ..	29	(a)	(a)
Brazil (total imports)—			
Ingots, sheets and wire ..	275	464	749
Japan (total imports)—			
Platinum .. .. .	11,067	20,796	14,305
Turkey—			
Plates, sheets and wire ..	—	2	616

(a) Information not available.

\* Official figures as given by the countries concerned, and do not include platinum transported by letter post.

## POTASH MINERALS

### PRODUCTION OF POTASH (Long tons)

Producing Country and Description	1927	1928	1929	K <sub>2</sub> O Content		
				1927	1928	1929
<b>BRITISH EMPIRE</b>						
Canada (shipments)						
Natro-alunite ..	6	—	—	(a)	—	—
<b>India—</b>						
Nitrate (estimated)	6,800	4,700	4,800	3,000	2,000	2,000
<b>Australia—</b>						
Alunite ..	3	—	38	—	—	(a)
Total (estimated)				3,000	2,000	2,000
<b>FOREIGN COUNTRIES</b>						
<b>France—</b>						
Sylvinite, etc. :						
12-16 per cent. K <sub>2</sub> O ..	251,234	212,840	254,844	365,043	404,813	486,133
18-22 per cent. K <sub>2</sub> O ..	527,876	616,750	704,612			
50 per cent. and over K <sub>2</sub> O ..	291,684	327,851	405,149			
<b>Germany—</b>						
Kainite, sylvinite, etc. .. ..	9,151,491	10,266,562	10,824,575	1,325,558	1,467,097	1,540,548
Carnallite, etc. .	1,745,190	2,025,261	2,281,331	168,504	197,322	218,992
<b>Italy—</b>						
Leucite .. ..	29,000	38,600	32,000	(a)	(a)	(a)
Alunite .. ..	800	193	(a)	(a)	(a)	(a)
<b>Poland—</b>						
Kainite .. ..	125,705	144,375	135,681	12,570	14,438	13,568
Sylvite .. ..	145,997	191,884	217,283	33,554	42,456	(a)
<b>Russia (years ended Sept. 30)—</b>						
Alunite clay ..	3,017	5,400	(a)	(a)	(a)	(a)
Alum stone ..	1,342	(a)	(a)	(a)	(a)	(a)
Potassium carbonate ..	3,724	6,057	6,870	(a)	(a)	(a)
<b>Spain (b)—</b>						
Crude salts ..	169,634	239,391	(a)	16,963	(a)	(a)
Nitrate .. ..	935	837	(a)	(a)	(a)	(a)
<b>Abyssinia—</b>						
Crude salts ..	1,600	1,300	(a)	800	650	(a)
<b>United States—</b>						
Crude salts ..	68,588	92,972	96,268	38,848	53,491	54,991
Total ..				1,960,000	2,180,000	2,320,000
<b>WORLD'S TOTAL</b>				1,960,000	2,180,000	2,322,000

(a) Information not available.

(b) 60 cubic metres of alunite were also produced in 1928.



## EXPORTS OF POTASH

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Kainite and other potash fertilizer salts .. ..	444	241	477
Nitrate .. .. .	874	828	650
Chromate and bichromate	1,537	1,412	903
Other compounds .. ..	1,581	1,849	1,574
Canada—			
Crude potash .. ..	346	75	148
Aden (including re-exports)—			
Compounds .. .. .	507	613	392
British India—			
Nitrate .. .. .	6,151	4,479	4,585
British Malaya (including re-exports)—			
Nitrate .. .. .	340	373	196
Australia (including re-exports)			
Alunite .. .. .	320	640	38
FOREIGN COUNTRIES			
Austria—			
Potash fertilizer salts ..	39	16	44
Nitrate .. .. .	149	325	255
Bicarbonate, including sodium bicarbonate ..	1,110	1,215	1,473
Belgium-Luxemburg E. U.—			
Potash fertilizer salts ..	68,829	2,713	25,767
Nitrate .. .. .	744	249	245
Chloride .. .. .	13,440	799	16,831
Caustic potash .. .. .	600	749	1,066
Carbonate .. .. .	2,406	2,728	2,756
Bulgaria—			
Carbonate .. .. .	256	219	(a)
Czechoslovakia—			
Potash and other fertilizer salts .. .. .	12	32	31
Carbonate .. .. .	2,231	2,135	1,951
Chloride .. .. .	751	1,195	1,065

(a) Information not available.

EXPORTS OF POTASH (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Czechoslovakia ( <i>Cont.</i> )—			
Nitrate .. .. .	97	105	96
Manganate and permanganate, including those of sodium .. .. .	930	1,225	1,028
Sulphate .. .. .	355	680	475
Sulphide, including sodium sulphide .. .. .	568	666	137
Finland—			
Chlorate .. .. .	1,176	1,355	1,021
France—			
Kainite .. .. .	19,528	34,180	43,345
Chloride .. .. .	649,821	639,444	781,625
Nitrate—			
Natural .. .. .	1,040	310	519
Synthetic .. .. .	6,456	6,481	6,087
Carbonate .. .. .	1,073	893	622
Caustic potash .. .. .	4,993	5,094	4,480
Chlorate .. .. .	(a)	3,960	2,765
Sulphate .. .. .	2,738	4,603	2,188
Germany—			
Potash and other salts ..	1,020,384	1,089,193	1,064,928
Nitrate .. .. .	20,908	22,796	28,084
Potash and wool grease ash	13,948	16,169	19,738
Caustic potash .. .. .	30,213	29,962	37,506
Chlorate .. .. .	16,079	12,409	14,749
Chloride .. .. .	174,093	190,472	212,836
Ferro- and ferri-cyanide and cyanide of potassium, also ferro-cyanide of sodium .. .. .	4,108	4,744	4,820
Manganate and permanganate .. .. .	834	870	886
Sulphate .. .. .	146,729	178,537	177,014
Magnesium potassium sulphate .. .. .	52,021	62,036	68,979

## EXPORTS OF POTASH (Cont.)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Potash fertilizer salts ..	197	219	223
Caustic potash .. ..	7	3	(a)
Carbonate .. .. .	815	991	1,261
Italy—			
Potash fertilizer salts ..	9	20	67
Jugoslavia—			
Carbonate of potash ..	—	(a)	140
Netherlands—			
Potash fertilizer salts ..	406	2	53
Caustic potash .. ..	21	48	777
Chloride .. .. .	405	175	353
Nitrate .. .. .	2,111	1,807	1,207
Sulphate .. .. .	304	88	89
Poland—			
Potash fertilizer salts ..	17,193	22,539	12,976
Carbonate .. .. .	15	—	(a)
Caustic potash .. ..	321	288	(a)
Chlorate .. .. .	—	73	(a)
Rumania—			
Chlorate .. .. .	95	64	(a)
Russia (years ended Sept. 30)			
Carbonate .. .. .	—	1,014	2,672
Spain (including re-exports)—			
Potash fertilizer salts ..	7,430	16,002	24,388
Sweden—			
Caustic potash .. ..	430	377	756
Chlorate, including sodium chlorate .. .. .	3,679	5,009	6,733
Switzerland—			
Caustic potash, including caustic soda .. ..	16	16	164
Nitrate, including nitrate of soda .. .. .	—	221	3,229
United States—			
Compounds .. .. .	1,755	2,338	1,360
Chile—			
Potassium compounds ..	240	214	204
Japan—			
Chlorate .. .. .	295	20	4
Iodide .. .. .	3	7	16

(a) Information not available.

**IMPORTS OF POTASH**  
(*Less Re-exports*)

(Long tons)

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Kainite and other potash fertilizer salts .. ..	123,278	97,949	135,612
Nitrate .. .. .	6,539	5,656	6,022
Carbonate .. .. .	2,614	2,650	2,506
Caustic potash and lyes ..	5,051	5,352	5,636
Chlorate .. .. .	1,289	1,281	1,171
Chloride .. .. .	30,453	32,803	35,190
Sulphate .. .. .	19,043	18,659	20,820
Other compounds .. ..	2,867	2,132	2,063
<b>Irish Free State—</b>			
Kainite .. .. .	9,466	12,896	13,359
Other compounds .. ..	268	290	269
<b>Mauritius—</b>			
Nitrate .. .. .	3,243	2,787	3,225
Sulphate .. .. .	—	100	60
<b>Northern Rhodesia—</b>			
Compounds .. .. .	8	36	17
<b>Southern Rhodesia—</b>			
Compounds .. .. .	14	144	50
<b>Union of South Africa—</b>			
Potash fertilizer salts ..	5,320	7,074	5,890
Nitrate .. .. .	105	150	117
Other compounds .. ..	530	855	763
<b>Canada—</b>			
Kainite and other potash fertilizer salts .. ..	17,058	21,479	15,718
Crude sulphate .. .. .	691	890	807
Nitrate .. .. .	560	448	632
Other compounds .. ..	1,608	1,204	1,778
<b>Aden (total imports)—</b>			
Compounds .. .. .	627	615	231
<b>British India (total imports)—</b>			
Bichromate .. .. .	339	282	268
Chlorate .. .. .	1,208	1,973	2,106
Chloride .. .. .	4,671	6,748	7,484
Other compounds .. ..	421	477	522
<b>British Malaya (total im- ports)—</b>			
Nitrate .. .. .	333	352	234

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE ( <i>Cont.</i> )			
Ceylon—			
Kainite .. .. .	1,164	830	1,480
Nitrate refuse .. .. .	4,827	3,450	3,895
Chloride—			
Sylvite .. .. .	7,429	7,349	5,626
Sylvinite .. .. .	1,023	2,272	1,666
Sulphate .. .. .	1,344	1,030	810
Australia—			
Nitrate .. .. .	650	452	713
Cyanides, including sodium cyanide .. .. .	733	685	746
Other compounds .. .. .	798	1,006	1,138
New Zealand—			
Kainite .. .. .	898	861	901
Other potash fertilizers ..	4,058	9,592	7,024
Chlorate .. .. .	(a)	66	82
Nitrate .. .. .	80	95	86
Sulphate .. .. .	1,421	1,915	1,207
FOREIGN COUNTRIES			
Austria—			
Potash fertilizer salts ..	17,293	23,137	23,417
Carbonate .. .. .	629	721	877
Caustic potash .. .. .	398	418	450
Chloride .. .. .	724	998	924
Nitrate .. .. .	72	39	19
Belgium-Luxemburg E. U.—			
Potash fertilizer salts ..	189,722	154,892	253,991
Carbonate .. .. .	1,166	1,595	1,337
Caustic potash and lyes ..	7,015	8,923	9,084
Chlorate .. .. .	937	683	781
Chloride .. .. .	37,362	26,459	60,619
Chromate and bichromate, including those of sodium	391	426	185
Nitrate .. .. .	783	466	1,196
Sulphate .. .. .	902	4,819	3,385
Bulgaria—			
Potassium compounds ..	80	131	(a)

(a) Information not available.

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Potash and other fertilizer salts .. .. .	92,596	131,790	120,251
Bicarbonate, including sodium bicarbonate ..	668	752	674
Chloride .. .. .	4,540	4,218	5,046
Nitrate .. .. .	18	75	55
Denmark—			
Potash fertilizer salts ..	40,326	43,118	77,354
Nitrate .. .. .	1,511	1,382	1,273
Caustic potash .. .. .	2,746	2,939	3,638
Carbonate .. .. .	514	647	722
Estonia—			
Potash fertilizer salts ..	5,610	9,503	4,972
Chlorate .. .. .	146	90	117
Nitrate .. .. .	24	13	12
Finland—			
Fertilizer salts .. .. .	36,710	37,444	22,027
Chlorate .. .. .	95	102	314
Chloride .. .. .	742	1,382	2,182
Carbonate .. .. .	243	351	244
Nitrate .. .. .	41	63	37
France—			
Fertilizer salts .. .. .	34	68	298
Nitrate .. .. .	14	232	277
Carbonate .. .. .	2,033	2,822	2,251
Caustic potash .. .. .	318	376	224
Chromate and bichromate..	(a)	771	690
Sulphate .. .. .	613	2,504	3,068
Germany—			
Nitrate .. .. .	210	336	152
Chlorate .. .. .	38	33	15
Caustic potash .. .. .	51	84	131
Greece—			
Nitrate .. .. .	78	111	158
Carbonate .. .. .	230	251	310
Caustic potash .. .. .	46	17	12
Hungary—			
Potash fertilizer salts ..	3,677	5,355	3,677
Carbonate .. .. .	30	16	24
Chlorate .. .. .	241	274	255

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Italy—			
Potash fertilizer salts ..	23,409	50,000	55,572
Nitrate .. .. .	1,590	1,838	1,771
Carbonate .. .. .	908	954	1,365
Caustic potash .. ..	2,264	2,507	2,788
Jugoslavia—			
Fertilizer salts .. ..	2,781	4,232	3,051
Carbonate .. .. .	111	56	102
Caustic potash .. ..	45	80	16
Nitrate .. .. .	524	124	37
Latvia—			
Potash fertilizer salts ..	14,237	16,991	17,386
Carbonate .. .. .	71	138	140
Caustic potash .. ..	33	53	71
Chlorate .. .. .	96	85	104
Lithuania—			
Potash salts .. .. .	8,396	8,660	1,271
Netherlands—			
Potash fertilizer salts ..	335,067	320,297	338,652
Caustic potash .. ..	207	212	412
Chloride .. .. .	3,510	5,888	4,783
Nitrate .. .. .	686	861	965
Sulphate .. .. .	3,556	5,207	3,034
Norway—			
Kainite and other potash salts .. .. .	17,822	21,420	22,321
Caustic potash .. ..	1,400	1,632	3,899
Carbonate .. .. .	692	471	510
Poland—			
Potash fertilizer salts ..	80,913	88,808	108,492
Nitrate .. .. .	549	284	491
Bicarbonate, including sodium bicarbonate ..	2,268	2,274	2,384
Carbonate .. .. .	281	286	(a)
Caustic potash .. ..	315	247	(a)
Chlorate .. .. .	59	20	(a)
Portugal—			
Nitrate .. .. .	241	315	403
Chloride .. .. .	1,166	987	870
Sulphate .. .. .	132	228	403

(a) Information not available.

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Rumania—			
Carbonate and bicarbonate	103	(a)	(a)
Chlorate .. .. .	8	(a)	(a)
Other compounds .. .. .	181	(a)	(a)
Russia (years ended Sept 30)—			
Fertilizer salts .. .. .	1,919	4,446	6,645
Carbonate .. .. .	(a)	144	64
Spain (total imports)—			
Carbonate .. .. .	177	331	306
Caustic potash and soda ..	607	371	334
Chlorate .. .. .	6	6	13
Permanganate .. .. .	9	17	10
Potash fertilizer salts ..	23,083	16,982	18,869
Sweden—			
Potash fertilizer salts—			
Potash salts (20% $K_2O$ )	33,020	25,009	24,934
Kainite (12% $K_2O$ ) ..	349	769	5,535
Other potash salts ..	57,423	56,421	62,238
Nitrate .. .. .	418	577	494
Carbonate .. .. .	1,583	1,712	1,654
Caustic potash .. .. .	2,366	3,161	2,531
Chloride .. .. .	6,357	7,495	8,799
Switzerland—			
Potash fertilizer salts ..	21,591	20,798	22,432
Crude potash .. .. .	449	413	439
Crude nitrate .. .. .	1,887	2,111	1,888
Purified nitrate, including sodium nitrate .. .. .	892	419	462
Caustic potash—			
Liquid, including caustic soda.. .. .	387	346	355
Solid .. .. .	1,198	1,302	1,450
Chloride .. .. .	1,471	1,547	2,172



IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
<b>Algeria—</b>			
Potash fertilizer salts ..	9,572	8,393	11,062
Nitrate .. .. .	26	44	114
Sulphate .. .. .	3,014	3,916	4,192
<b>Egypt—</b>			
Bichromate, including sodium bichromate ..	353	427	388
Other compounds ..	13	6	9
<b>Morocco (French Zone)—</b>			
Potash fertilizers .. ..	81	3,622	1,879
Carbonate .. .. .	186	241	211
<b>Tunis—</b>			
Carbonate .. .. .	13	8	9
Chloride .. .. .	98	190	228
Nitrate .. .. .	35	39	45
Sulphate .. .. .	132	576	326
<b>United States—</b>			
Kainite .. .. .	102,987	107,051	75,930
Chloride .. .. .	157,228	227,668	229,980
Nitrate (total imports) ..	3,550	9,674	12,800
Carbonate, including crude	5,878	7,520	10,087
Cyanide .. .. .	152	52	61
Sulphate .. .. .	368,775	86,212	79,480
Other compounds .. ..	303,001	437,698	421,493
<b>Argentina—</b>			
Nitrate .. .. .	149	111	(a)
Carbonate .. .. .	67	62	(a)
Caustic potash .. .. .	83	45	(a)
Chlorate .. .. .	218	54	(a)
Sulphate .. .. .	14	357	(a)
Other compounds .. ..	218	189	(a)
<b>Brazil (total imports)—</b>			
Nitrate .. .. .	3,356	6,130	5,105
Caustic potash .. .. .	12	37	13
Potash and soda ash ..	7,761	12,012	9,417

(a) Information not available.

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Potash fertilizer salts .. ..	3,916	(a)	(a)
Bichromate .. .. .	38	45	78
Carbonate .. .. .	35	24	(a)
Nitrate .. .. .	28	25	13
Chlorate .. .. .	82	20	58
Colombia—			
Bicarbonate .. .. .	7	} (a)	} (a)
Bichromates of potash and soda .. .. .	442		
Caustic potash .. .. .	15		
Peru—			
Nitrate, etc. .. .. .	752	1,328	1,276
Uruguay—			
Nitrate .. .. .	13	(a)	(a)
Caustic potash .. .. .	32	(a)	(a)
China—			
Nitrate .. .. .	1,469	1,806	1,478
Dutch East Indies—			
Potash fertilizer salts .. ..	438	731	(a)
Nitrate .. .. .	93	90	(a)
Caustic potash .. .. .	124	229	(a)
French Indo-China—			
Carbonate .. .. .	261	360	234
Chlorate .. .. .	201	424	146
Chloride .. .. .	108	118	668
Nitrate .. .. .	90	122	105
Sulphate .. .. .	2	189	648
Japan (total imports)—			
Nitrate .. .. .	397	(a)	(a)
Bichromate .. .. .	430	446	237
Chlorate .. .. .	2,910	2,539	3,098

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Japan ( <i>Cont.</i> )—			
Chloride .. .. .	12,875	21,750	27,155
Cyanide, including sodium cyanide .. .. .	588	618	533
Sulphate .. .. .	31,159	34,799	53,347
Philippine Islands—			
Chlorate .. .. .	16	39	29
Sulphate .. .. .	606	585	77
Turkey—			
Carbonate .. .. .	458	243	465
Caustic potash .. .. .	22	21	36

(a) Information not available.

**PYRITES.**

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

Producing Country.	1927	1928	1929	Estimated Sulphur Content.		
				1927	1928	1929
<b>BRITISH EMPIRE</b>						
United Kingdom	4,890	4,370	4,371	(a)	(a)	(a)
Union of South Africa .. ..	2,219	3,695	4,051	(a)	(a)	(a)
Canada .. ..	45,413	61,461	68,980	22,516	34,454	39,318
Cyprus .. ..	200,176	243,935	288,110	100,088	121,968	144,055
India .. ..	—	—	294	(a)	(a)	(a)
Total ..	253,000	313,000	366,000			
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	19,023	9,842	—	3,103	1,968	—
Czechoslovakia ..	22,932	23,253	(a)	9,058	9,185	(a)
France .. ..	197,200	198,892	191,359	92,889	(a)	(a)
Germany .. ..	344,895	336,775	346,351	147,169	143,562	147,614
Greece .. ..	98,470	92,781	(a)	48,112	44,643	(a)
Hungary .. ..	3,608	4,155	1,007	(a)	(a)	(a)
Italy .. ..	615,462	549,571	687,517	285,811	252,630	(a)
Jugoslavia .. ..	56,104	63,258	60,686	(a)	(a)	(a)
Norway .. ..	607,299	726,871	727,926	262,648	316,551	319,144
Poland .. ..	24,208	10,500	9,261	(a)	(a)	(a)
Portugal .. ..	296,287	238,298	378,279	150,000	120,000	190,000
Rumania .. ..	25,111	23,340	23,474	10,000	9,000	10,000
Russia (years ended Sept. 30) ..	221,759	98,555	(a)	(a)	(a)	(a)
Spain .. ..	3,553,668	3,930,000	(a)	1,582,578	1,546,900	(a)
Sweden .. ..	68,145	19,680	70,917	31,628	12,198	(a)
Algeria .. ..	12,033	13,607	16,539	5,975	6,395	7,608
United States ..	215,786	182,049	(b) 333,465	(a)	(a)	(a)
Japan .. ..	498,096	584,591	(a)	(a)	(a)	(a)
Total ..	6,880,000	7,100,000	(a)			
<b>WORLD'S TOTAL</b>	<b>7,130,000</b>	<b>7,400,000</b>	(a)			

(a) Information not available.

(b) Includes pyrites concentrates from Tennessee and partly desulphurized tailings from zinc operations in Wisconsin ; similar output is not included in earlier years.

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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom— Iron-pyrites and cupreous pyrites .. .. .	1,264	8,551	10,058
Canada— Pyrites ( <i>sulphur content</i> ) ..	12,153	28,211	28,560
Cyprus .. .. .	208,122	240,060	291,100
FOREIGN COUNTRIES			
Austria— Iron-pyrites .. .. .	560	48	117
Czechoslovakia— Pyrites .. .. .	139	—	384
France— Iron-pyrites.. .. .	1,791	4,997	2,234
Germany— Pyrites, etc... .. .	35,000	36,283	46,042
Greece— Iron-pyrites .. .. .	89,174	78,343	95,380
Italy— Iron-pyrites .. .. .	98,498	185,809	226,975
Cupreous pyrites .. .. .	358	—	—
Jugoslavia .. .. .	40,530	56,608	57,688
Netherlands— Iron-pyrites .. .. .	10,397	6,110	6,754
Norway— Iron-pyrites.. .. .	176,076	205,101	201,020
Cupreous pyrites .. .. .	417,554	430,910	445,143
Poland— Iron-pyrites.. .. .	13,481	7,616	8,656

EXPORTS OF PYRITES (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Portugal .. .. .	106,457	75,906	282,414
Rumania .. .. .	7,640	14,910	(a)
Spain (including re-exports)— Iron-pyrites.. .. .	1,528,750	1,645,741	1,781,281
Cupreous pyrites, containing not more than 2½ % Cu ..	877,146	845,520	895,721
Copper ore and cupreous pyrites, containing more than 2½ % Cu .. .. .	—	29	1,773
Sweden— Pyrites .. .. .	74	—	—

(a) Information not available.

## IMPORTS OF PYRITES

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Iron-pyrites and cupreous pyrites .. .. .	286,543	300,723	334,675
Irish Free State .. .. .	26,387	32,011	35,909
Union of South Africa—			
Iron-pyrites.. .. .	9	—	11,656
<b>FOREIGN COUNTRIES</b>			
Austria—			
Iron-pyrites.. .. .	50,287	57,755	70,838
Czechoslovakia .. .. .	197,188	208,139	218,338
Denmark .. .. .	64,455	76,559	70,737
France—			
Iron-pyrites.. .. .	750,069	811,551	907,900
Germany—			
Pyrites, etc. .. .. .	936,714	1,067,213	1,151,841
Hungary .. .. .	39,350	50,794	69,500
Italy—			
Iron-pyrites.. .. .	124,932	126,449	182,299
Cupreous pyrites .. .. .	5,258	10,313	—
Jugoslavia .. .. .	19,793	9,500	26,216
Latvia .. .. .	7,579	16,515	8,786
Netherlands—			
Iron-pyrites.. .. .	121,191	137,983	153,787
Norway .. .. .	—	1,023	—
Poland—			
Iron-pyrites.. .. .	12,093	20,018	79,676
Sweden—			
Pyrites .. .. .	157,250	166,597	170,488
Algeria.. .. .	1,956	—	—
United States .. .. .	250,794	458,264	514,336

## QUICKSILVER

### PRODUCTION OF QUICKSILVER

(Lb. avdp.)

Producing Country	1927	1928	1929
BRITISH EMPIRE.			
New Zealand .. ..	1,568	—	—
FOREIGN COUNTRIES			
Austria .. .. .	18,739	14,550	10,041
Czechoslovakia .. ..	121,799	158,576	(a)
Italy .. .. .	4,400,426	4,383,495	4,321,600
Rumania .. .. .	7,848	—	—
Russia (years ended Sept. 30) .. .. .	163,230	224,210	(a)
Spain .. .. .	5,496,121	4,839,413	(a)
Algeria .. .. .	5,952	—	22
Mexico .. .. .	178,828	192,726	182,181
United States .. .. .	845,700	1,358,120	1,799,850
Turkey .. .. .	—	6,600	17,925
Japan .. .. .	—	1,017	(a)
WORLD'S TOTAL	11,000,000	11,000,000	(a)

(a) Information not available.



## EXPORTS OF QUICKSILVER, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Quicksilver .. .. .	171	292	180
British Malaya (including re- exports)—			
Quicksilver .. .. .	1	3	6
FOREIGN COUNTRIES			
Austria—			
Quicksilver .. .. .	87	39	90
Belgium-Luxemburg E. U.—			
Quicksilver .. .. .	6	293	488
Sulphide of mercury ..	26	12	96
Czechoslovakia—			
Quicksilver .. .. .	236	630	295
France—			
Quicksilver .. .. .	85	6	39
Mercury salts .. .. .	83	62	186
Germany—			
Cinnabar .. .. .	1,112	1,027	692
Quicksilver and amalgam ..	661	929	2,148
Mercury salts .. .. .	2,397	3,029	3,179
Hungary—			
Quicksilver .. .. .	16	—	(a)
Italy—			
Quicksilver .. .. .	26,558	41,846	10,950
Chloride of mercury ..	1,218	581	1,896
Sulphide of mercury ..	394	486	744
Other mercury salts ..	134	146	128
Netherlands—			
Quicksilver and amalgam ..	67	36	67
Spain (including re-exports)—			
Quicksilver .. .. .	30,740	32,340	17,160
Sweden—			
Quicksilver and amalgam ..	—	(18 lb.)	(29 lb.)
Algeria—			
Quicksilver .. .. .	12	—	(a)
Mexico—			
Quicksilver .. .. .	1,568	1,721	1,627
Turkey—			
Quicksilver .. .. .	—	46	117

(a) Information not available.

## IMPORTS OF QUICKSILVER, ETC.

*(Less Re-exports)*

(Cwt.)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Quicksilver .. .. .	11,264	18,346	2,737
Southern Rhodesia—			
Quicksilver .. .. .	100	107	110
Union of South Africa—			
Quicksilver .. .. .	374	456	685
Canada—			
Quicksilver .. .. .	1,108	1,782	3,096
Mercury salts .. .. .	(£5,240)	(£4,091)	(£3,050)
British India (total imports)—			
Quicksilver .. .. .	1,748	2,176	1,830
British Malaya (total imports)—			
Quicksilver .. .. .	34	43	46
Australia—			
Quicksilver .. .. .	218	198	233
Mercury salts .. .. .	15	15	7
New Zealand—			
Quicksilver .. .. .	20	19	20
FOREIGN COUNTRIES			
Austria—			
Quicksilver .. .. .	311	1,136	410
Belgium-Luxemburg E.U.—			
Quicksilver .. .. .	1,323	3,220	2,478
Sulphide of mercury ..	65	87	63
Bulgaria—			
Quicksilver .. .. .	26	24	(a)
Czechoslovakia—			
Quicksilver .. .. .	197	650	1,006
Denmark—			
Quicksilver .. .. .	22	30	41
Estonia—			
Quicksilver .. .. .	6	10	8
Mercury salts .. .. .	10	10	9
Finland—			
Cinnabar .. .. .	263	173	118
Quicksilver and amalgam ..	35	39	27

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
France—			
Quicksilver .. .. .	4,464	3,980	3,578
Mercury salts .. .. .	1,126	1,378	1,016
Germany—			
Cinnabar .. .. .	51	24	16
Quicksilver and amalgam ..	14,253	26,142	6,848
Mercury salts .. .. .	868	1,307	1,039
Greece—			
Quicksilver .. .. .	24	26	50
Hungary—			
Quicksilver .. .. .	102	79	(a)
Mercury sulphide .. .. .	12	26	32
Italy—			
Quicksilver .. .. .	2	6	8
Mercury salts .. .. .	230	43	49
Jugoslavia—			
Quicksilver and amalgam ..	117	90	60
Mercury salts .. .. .	129	142	137
Latvia—			
Quicksilver .. .. .	19	14	18
Mercury salts .. .. .	13	19	12
Lithuania—			
Quicksilver .. .. .	8	6	8
Netherlands—			
Quicksilver and amalgam ..	186	145	304
Poland—			
Quicksilver .. .. .	453	404	(a)
Mercury salts .. .. .	169	258	242
Portugal—			
Quicksilver .. .. .	96	155	148
Mercury salts .. .. .	53	30	32
Rumania—			
Quicksilver .. .. .	60	(a)	(a)
Mercury salts .. .. .	84	(a)	(a)
Russia (years ended Sept. 30)			
Quicksilver .. .. .	39	138	258
Spain (total imports)—			
Mercury salts .. .. .	28	20	16
Sweden—			
Quicksilver and amalgam ..	246	277	485
Switzerland—			
Quicksilver .. .. .	561	775	693
Egypt—			
Quicksilver .. .. .	11	18	9

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Morocco (French Zone)—			
Quicksilver .. ..	29	—	21
Costa Rica (total imports)—			
Quicksilver .. ..	18	(a)	(a)
United States—			
Quicksilver .. ..	16,507	10,435	9,698
Argentina—			
Quicksilver .. ..	109	143	(a)
Mercury salts .. ..	155	163	(a)
Brazil (total imports)—			
Quicksilver .. ..	83	103	80
Chile—			
Cinnabar .. ..	48	35	—
Quicksilver .. ..	21	29	32
Mercury salts .. ..	45	36	38
Colombia—			
Quicksilver .. ..	26	(a)	(a)
Mercury salts .. ..	129	(a)	(a)
Peru—			
Quicksilver .. ..	4	27	39
Mercury salts .. ..	15	8	10
China—			
Cinnabar .. ..	748	942	745
Dutch East Indies—			
Quicksilver .. ..	85	128	(a)
French Indo-China—			
Quicksilver .. ..	16	36	24
Mercury salts .. ..	321	341	315
Formosa—			
Vermilion and cinnabar ..	87	113	(a)
Japan (total imports)—			
Quicksilver .. ..	5,306	6,048	6,362
Korea—			
Quicksilver .. ..	(a)	290	240
Turkey—			
Quicksilver .. ..	34	20	36
Mercury salts .. ..	77	157	230

(a) Information not available.

## SALT

## PRODUCTION OF SALT

(Long tons)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Rock-salt .. .. .	29,596	31,349	36,159
Brine-salt .. .. .	1,953,890	1,914,969	1,938,011
Mauritius (estimated)—			
Sea-salt .. .. .	1,500	1,500	1,500
Nigeria (estimated) .. .. .	400	400	400
Somaliland (exports)—			
Sea-salt .. .. .	2,367	1,678	3,100
South-West Africa .. .. .	338	144	334
Anglo-Egyptian Sudan .. .. .	9,716	12,284	14,715
Tanganyika Territory .. .. .	4,775	5,053	7,270
Uganda .. .. .	2,017	2,034	2,244
Union of South Africa (years ended June 30) .. .. .	79,146	82,412	(a)
Canada .. .. .	241,876	269,206	294,789
West Indies (exports)—			
Sea-salt—			
Bahamas .. .. .	1,900	700	800
Turks and Caicos Islands	27,923	50,043	61,153
Ceylon .. .. .	25,668	43,576	(a)
Cyprus (estimated) .. .. .	3,000	3,000	3,000
India (including Aden)—			
Rock-salt .. .. .	170,748	155,353	} 1,709,099
Salt .. .. .	1,441,197	1,359,996	
Palestine—			
Rock salt .. .. .	—	1,628	2,468
Weihaiwei (estimated) .. .. .	2,000	2,000	2,000
Australia—			
Victoria .. .. .	35,926	51,357	(a)
Western Australia (estimated)	8,000	8,000	8,000
South Australia .. .. .	79,286	71,428	76,457
Total .. .. .	4,100,000	4,100,000	4,300,000

(a) Information not available.

## PRODUCTION OF SALT (Cont.)

Producing Country and Description	1927	1928	1929
FOREIGN COUNTRIES			
Albania .. .. .	6,072	(a)	(a)
Austria—			
Rock-salt .. .. .	2,632	1,581	2,992
Brine-salt .. .. .	143,109	149,808	172,671
Bulgaria—			
Rock-salt .. .. .	3,919	4,043	3,595
Czechoslovakia—			
Rock-salt .. .. .	111,904	141,796	(a)
Brine-salt .. .. .	8,368	9,882	(a)
France—			
Rock-salt and brine-salt ..	1,494,000	1,571,699	1,486,435
Sea-salt .. .. .	425,700	(a)	(a)
Germany—			
Rock-salt .. .. .	2,232,974	2,361,770	2,501,350
Brine-salt .. .. .	525,550	501,614	493,111
Greece—			
Sea-salt .. .. .	102,730	(b) 57,661	(a)
Italy—			
Rock-salt .. .. .	65,794	66,126	(a)
Brine-salt .. .. .	289,545	270,171	(a)
Sea-salt .. .. .	675,136	552,824	(a)
Jugoslavia .. .. .	53,900	51,305	(a)
Netherlands (sales) .. .. .	37,439	40,815	44,205
Poland—			
Rock-salt .. .. .	239,637	261,832	} 560,000
Evaporated salt .. .. .	129,521	128,680	
Brine-salt .. .. .	161,536	169,825	
Portugal—			
Rock-salt .. .. .	21	31	28
Rumania—			
Rock salt .. .. .	322,847	334,839	313,767
Sea salt .. .. .	3	2,526	2,655
Russia (years ended Sept. 30)			
Rock-salt .. .. .	731,922	} 2,286,563	(a)
Brine-salt .. .. .	277,810		
Evaporated salt .. .. .	335,766		
Lake-salt .. .. .	1,042,153		
Spain—			
Rock-salt .. .. .	109,088	143,839	(a)
Brine-salt and sea-salt ..	854,666	823,694	(a)
Switzerland .. .. .	77,026	78,719	85,110
Algeria—			
Rock-salt and sea-salt ..	36,353	10,802	15,063
Abyssinia (estimated) ..	25,000	(a)	(a)
Angola (estimated) .. .. .	10,000	10,000	10,000
Belgian Congo (estimated)	80	80	80
Egypt (exports) .. .. .	219,020	165,222	146,669

## PRODUCTION OF SALT (Cont.)

Producing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
French Morocco .. ..	3,500	(a)	(a)
French Somaliland .. ..	16,381	28,272	38,356
French West Africa (Mauritania) .. ..	4,200	4,000	(a)
Italian East Africa .. ..	67,000	100,000	(a)
Tripoli (estimated) .. ..	19,000	19,000	19,000
Tunis—			
Sea-salt .. ..	142,501	(a)	(a)
Dutch West Indies (exports)	8,088	(a)	(a)
Mexico (estimated) .. ..	66,000	66,000	66,000
Panama (estimated)			
Crude salt .. ..	50,000	50,000	50,000
United States—			
Rock-salt .. ..	1,914,161	1,980,161	1,886,616
Brine-salt .. ..	2,823,036	3,059,705	3,468,000
Evaporated salt .. ..	2,020,563	2,169,688	2,273,563
Argentina (railway shipments)	150,793	164,970	(a)
Chile .. ..	70,419	34,197	(a)
Colombia (estimated) .. ..	29,000	29,000	29,000
Ecuador—			
Rock salt .. ..	618	(a)	(a)
Other salt .. ..	15,850	(a)	(a)
Peru .. ..	29,695	32,222	(a)
Venezuela (estimated) .. ..	30,000	30,000	30,000
China, including Kwantung			
Peninsula .. ..	2,194,188	2,400,570	2,408,019
Dutch East Indies—			
Government production ..	237,712	227,884	(a)
Native production .. ..	9,772	10,414	(a)
Formosa .. ..	111,600	116,513	(a)
French Indo-China—			
Sea-salt (exports) .. ..	27,263	35,250	25,231
Japan (i) .. ..	609,360	627,813	(a)
Philippine Islands—			
Brine-salt and sea-salt ..	65,616	(a)	(a)
Portuguese India (estimated)	12,000	12,000	12,000
Siam—			
Brine-salt .. ..	24,325	25,039	(a)
Sea-salt .. ..	89,209	92,408	(a)
Turkey (Anatolia) (estimated)	100,000	100,000	100,000
Total .. ..	22,000,000	22,000,000	23,000,000
WORLD'S TOTAL	26,000,000	26,000,000	27,000,000

(a) Information not available.

(b) Sales.

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

## EXPORTS OF SALT

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Table-salt .. .. .	6,145	5,479	5,729
Other salt .. .. .	350,407	332,191	346,147
Anglo-Egyptian Sudan—			
Salt .. .. .	2,794	2,855	4,512
Northern Rhodesia—			
Common salt and refined salt	16	15	30
Southern Rhodesia—			
Common salt and refined salt	870	659	611
Somaliland—			
Sea-salt .. .. .	2,367	1,678	3,100
Tanganyika Territory—			
Salt .. .. .	1,508	2,754	2,999
Union of South Africa—			
Salt .. .. .	6,542	7,458	8,102
Canada—			
Salt .. .. .	1,082	2,616	8,357
West Indies—			
Sea-salt from—			
Bahamas ( <i>m</i> ) .. .. .	1,893	714	786
Leeward Islands ( <i>j</i> ) .. .. .	1,195	1,561	( <i>a</i> )
Turks and Caicos Islands ( <i>m</i> )	27,923	50,043	61,153
Aden (including re-exports)—			
Salt .. .. .	185,075	206,765	220,790
British India (including re-exports)—			
Salt .. .. .	86,687	88,478	91,010
British Malaya (including re-exports)—			
Salt .. .. .	15,820	20,463	12,826
Australia (including re-exports)—			
Rock-salt .. .. .	56	29	89
Refined salt .. .. .	(£717)	(£658)	(£607)
Other salt .. .. .	7,353	4,233	7,991
FOREIGN COUNTRIES			
Austria—			
Salt .. .. .	11	37	13
Belgium-Luxemburg E.U.—			
Common salt .. .. .	608	636	477
Refined salt .. .. .	221	302	457
Czechoslovakia—			
Refined salt, etc. .. .. .	—	4	8



EXPORTS OF SALT (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Denmark—			
Refined salt, etc. .. ..	61	24	(a)
France—			
Refined salt .. ..	18,656	22,091	} 160,370
Other salt .. ..	168,801	193,321	
Germany—			
Rock-salt, sea-salt, etc. ..	834,074	866,192	954,499
Italy—			
Rock-salt and sea-salt ..	96,548	93,507	120,662
Jugoslavia—			
Common salt and sea-salt..	31	30	11
Netherlands—			
Rock-salt .. ..	62	40	—
Sea-salt, .. ..	38	31	16
Refined salt and waste ..	10,904	15,254	17,858
Norway—			
Salt .. ..	34	14	10
Poland—			
Refined salt .. ..	18,080	33,999	35,206
Other salt .. ..	2,721	2,060	2,892
Portugal—			
Common salt .. ..	48,769	46,038	15,075
Rumania—			
Rock-salt and sea-salt ..	57,509	69,485	(a)
Russia (years ended Sept. 30)—			
Salt .. ..	29,022	37,544	100,448
Spain (including re-exports)—			
Common salt .. ..	602,811	586,618	533,832
Sweden—			
Rock-salt .. ..	155	—	—
Sea-salt .. ..	1,871	987	781
Refined salt .. ..	87	76	233
Algeria—			
Rock-salt and sea-salt ..	22,444	16,451	9,623
Angola—			
Salt .. ..	3,370	3,069	(a)
Belgian Congo—			
Salt .. ..	348	670	619
Dahomey—			
Rock-salt .. ..	(a)	117	149
Egypt—			
Common salt .. ..	219,020	165,222	146,669
French Guinea—			
Salt .. ..	9	7	41

(a) Information not available.

(j) Including inter-presidency trade.

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

EXPORTS OF SALT (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
French Somaliland—			
Salt .. .. .	16,381	28,272	38,356
Madagascar—			
Sea-salt .. .. .	(a)	1,535	(a)
Mozambique—			
Salt .. .. .	2,834	1,895	1,728
Senegal—			
Rock-salt .. .. .	292	158	126
Tunis (including re-exports)—			
Rock-salt and sea-salt ..	103,434	103,170	50,492
Mexico—			
Salt .. .. .	410	2,488	(a)
United States—			
Salt .. .. .	137,350	129,818	97,519
Argentina—			
Common salt .. .. .	494	1,208	(a)
Refined salt .. .. .	23	15	(a)
Brazil—			
Salt .. .. .	41	59	20
Chile—			
Common salt .. .. .	61	63	87
Peru—			
Salt .. .. .	—	1,000	3
Venezuela—			
Sea-salt .. .. .	904	828	(a)
China—			
Common salt .. .. .	280,897	279,174	337,546
Refined salt.. .. .	17,150	34,029	50,178
Formosa—			
Salt .. .. .	8,326	489	(a)
French Indo-China—			
Sea-salt .. .. .	27,263	35,250	25,231
Japan—			
Salt .. .. .	35	(a)	(a)
Persia (including re-exports)			
(l)—			
Common salt .. .. .	719	938	991
Refined salt.. .. .	104	23	22
Philippine Islands—			
Salt .. .. .	5	26	31
Siam (including re-exports)—			
Salt .. .. .	41,972	59,694	47,366
Turkey—			
Salt .. .. .	25,540	3,304	13,430

(a) Information not available.

(l) Years ended March 21 of the year stated.

## IMPORTS OF SALT

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Refined salt.. .. .	288	807	1,087
Other salt .. .. .	110,747	94,949	92,210
Irish Free State—			
Refined salt.. .. .	4,189	2,661	2,427
Other salt .. .. .	35,051	33,491	27,100
Anglo-Egyptian Sudan—			
Salt .. .. .	287	175	196
Gambia—			
Salt .. .. .	2,348	2,527	1,439
Gold Coast—			
Refined salt.. .. .	18	18	19
Other salt .. .. .	8,956	5,523	6,931
Kenya and Uganda—			
Salt .. .. .	8,355	8,436	9,100
Mauritius—			
Salt .. .. .	2,163	781	1,602
Nigeria—			
Salt.. .. .	55,679	53,307	52,436
Nyasaland—			
Salt .. .. .	3,375	2,320	3,713
Northern Rhodesia—			
Common salt and refined salt	1,157	1,233	1,775
Southern Rhodesia—			
Common salt and refined salt	5,347	5,847	5,590
Seychelles—			
Salt .. .. .	90	466	167
Sierra Leone—			
Refined salt.. .. .	2	2	2
Other salt .. .. .	6,293	5,832	5,418
South-West Africa—			
Salt .. .. .	1,130	995	1,472
Tanganyika Territory—			
Salt .. .. .	1,966	2,593	1,777
Union of South Africa—			
Rock-salt .. .. .	2,198	1,816	2,687
Common salt and refined salt	1,787	1,642	2,189
Zanzibar—			
Salt .. .. .	1,149	1,368	1,205

IMPORTS OF SALT (*Cont.*)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE ( <i>Cont.</i> )			
Canada (total imports)—			
Salt for use of fisheries ..	55,448	66,243	73,687
Refined salt .. .. .	754	427	218
Other salt .. .. .	101,619	102,103	83,742
Newfoundland (total imports, year ended June 30)—			
Salt in bulk .. .. .	50,319	62,495	56,370
Refined salt .. .. .	(£1,852)	(£1,937)	(£2,822)
British Honduras—			
Salt .. .. .	455	620	422
West Indies—			
Barbados—			
Common salt .. .. .	3,807	2,367	} 2,172
Refined salt .. .. .	(£35)	(£16)	
Bermuda—			
Salt .. .. .	(£1,210)	(£1,314)	(£1,105)
Grenada—			
Salt .. .. .	272	828	(a)
Jamaica—			
Rock-salt .. .. .	290	300	(a)
Other salt .. .. .	5,616	8,262	(a)
Leeward Islands (h)—			
Salt .. .. .	(£701)	(£689)	(£676)
St. Lucia—			
Common salt .. .. .	480	433	386
Refined salt .. .. .	13	15	9
St. Vincent—			
Rock-salt .. .. .	374	488	217
Refined salt .. .. .	15	23	15
Trinidad and Tobago (total imports)—			
Rock-salt .. .. .	113	667	746
Refined salt, etc... ..	2,668	2,764	2,236
British Guiana—			
Rock-salt .. .. .	1,020	386	648
Refined salt, etc. .. .. .	569	1,013	1,325
Aden (total imports)—			
Salt .. .. .	5	107	5
British Borneo—			
Brunei—			
Salt .. .. .	122	130	148
Sarawak—			
Salt .. .. .	3,042	3,165	3,121

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE (Cont.)</b>			
British India (total imports)—			
Salt .. .. .	637,694	614,297	607,596
British Malaya (total imports)—			
Salt .. .. .	60,985	66,547	62,533
Ceylon—			
Refined salt.. ..	26	44	39
Other salt .. ..	7,168	12,019	1,237
Cyprus—			
Refined salt.. ..	4	7	6
Palestine (total imports)—			
Salt .. .. .	48	830	70
Australia—			
Rock-salt .. ..	6,869	4,792	5,377
Refined salt.. ..	938	1,082	1,328
Other salt .. ..	5,105	4,355	6,444
Fiji—			
Salt .. .. .	542	779	717
New Zealand—			
Rock-salt (b) .. ..	723	1,267	1,490
Other salt (b) .. ..	35,088	32,474	27,471
Solomon Islands—			
Salt .. .. .	9	8	9
Western Samoa—			
Salt .. .. .	(£357)	(£330)	(£412)
<b>FOREIGN COUNTRIES</b>			
Austria—			
Salt .. .. .	7,201	6,528	6,528
Belgium-Luxemburg E.U.—			
Common salt .. ..	220,000	252,245	217,737
Refined salt .. ..	56,743	58,160	62,752
Bulgaria—			
Rock-salt .. ..	22,878	26,110	20,265
Sea-salt .. .. .	35	—	—
Czechoslovakia—			
Common salt .. ..	120,858	135,577	160,932
Refined salt.. ..	7	6	12
Denmark—			
Rock-salt .. ..	5,119	4,974	(a)
Refined salt, etc. .. ..	74,860	76,025	(a)

(a) Information not available.

(k) Including inter-presidency trade.

(b) Total imports. Re-exports of salt of all kinds were 1 ton, 15 tons, 17 tons in years 1927, 1928 and 1929 respectively.

IMPORTS OF SALT (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Estonia—			
Salt .. .. .	23,286	25,278	22,175
Finland—			
Common salt .. ..	80,447	78,729	72,457
France—			
Refined salt .. ..	420	1,287	} 61,364
Other salt .. ..	63,981	59,934	
Germany—			
Rock-salt, sea-salt, etc. ..	9,761	24,231	27,650
Hungary—			
Salt .. .. .	69,749	85,502	81,476
Iceland—			
Common salt .. ..	64,336	95,395	} 102,300
Refined salt.. ..	92	143	
Italy—			
Rock-salt and sea-salt ..	30,919	51,454	42,804
Jugoslavia—			
Rock-salt .. .. .	45,459	39,088	35,934
Sea-salt .. .. .	30,685	28,829	31,018
Latvia—			
Rock-salt .. .. .	19,258	24,123	24,410
Common salt .. ..	7,581	12,122	11,703
Sea-salt .. .. .	133	490	—
Refined salt.. ..	243	(a)	4
Lithuania—			
Crude salt .. .. .	66	198	178
Refined salt.. ..	29,318	25,732	30,064
Netherlands—			
Rock-salt .. .. .	82,248	93,153	97,538
Sea-salt, etc. .. ..	24,129	25,406	24,271
Refined salt and waste ..	6,460	5,894	3,918
Norway—			
Rock-salt .. .. .	41,276	41,188	52,873
Common salt .. ..	168,497	165,737	163,608
Poland—			
Refined salt.. ..	2,087	2,197	2,299
Other salt .. .. .	150	34	—
Portugal—			
Salt .. .. .	41	—	—
Rumania—			
Rock-salt and sea-salt ..	15	(a)	(a)
Russia (years ended Sept. 30)—			
Salt .. .. .	1,591	16	(a)
Spain (total imports)—			
Common salt .. ..	31	13	—

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Rock-salt .. .. .	61,426	52,058	65,629
Sea-salt .. .. .	44,775	31,087	30,169
Refined salt.. .. .	41,130	41,167	45,975
Switzerland—			
Rock-salt .. .. .	1	6	502
Other salt .. .. .	4,967	6,250	1,471
Algeria—			
Salt .. .. .	10,285	13,696	24,243
Angola—			
Salt .. .. .	53	22	(a)
Belgian Congo—			
Salt .. .. .	14,229	6,789	10,783
Cameroon (French)—			
Salt .. .. .	6,464	5,208	5,431
Dahomey—			
Sea-salt and rock-salt ..	5,252	3,904	4,030
Egypt—			
Common salt .. .. .	106	155	67
French Equatorial Africa—			
Refined salt.. .. .	2,754	1,954	1,264
French Guinea—			
Salt .. .. .	6,183	5,554	3,687
French Sudan—			
Salt .. .. .	2,396	2,327	861
Ivory Coast—			
Rock-salt and sea-salt ..	8,835	4,518	6,013
Liberia—			
Common salt .. .. .	2,222	(a)	(a)
Madagascar—			
Sea-salt .. .. .	1,380	337	(a)
Morocco—			
Sea-salt and rock-salt ..	7,129	11,637	8,055
Mozambique—			
Salt .. .. .	163	514	2,596
Senegal—			
Rock-salt and sea-salt ..	2,071	2,451	1,441
Costa Rica (total imports)—			
Salt .. .. .	185	(a)	(a)
Cuba—			
Salt .. .. .	28,229	18,215	(a)
Mexico—			
Common salt .. .. .	6,263	3,732	(a)
Refined salt .. .. .	3,436	3,180	(a)

(a) Information not available.

IMPORTS OF SALT (*Cont.*)

Importing Country and Description.	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Nicaragua (total imports)—			
Salt .. .. .	314	338	321
Panama—			
Salt .. .. .	546	649	907
United States—			
Salt .. .. .	42,788	37,522	40,926
Guadeloupe—			
Salt .. .. .	950	(a)	(a)
Argentina—			
Rock-salt .. .. .	1,196	2,187	(a)
Sea-salt .. .. .	59,181	40,872	(a)
Refined salt .. .. .	9,078	8,826	(a)
Bolivia—			
Common salt .. .. .	562	(a)	(a)
Refined salt .. .. .	12	(a)	(a)
Brazil (total imports)—			
Salt .. .. .	71,765	72,699	42,780
Chile—			
Common salt .. .. .	20	22	43
Refined salt .. .. .	109	141	88
Colombia—			
Refined salt .. .. .	1,330	(a)	(a)
Peru—			
Salt .. .. .	47	62	497
Uruguay—			
Sea-salt .. .. .	34,889	52,759	21,418
Dutch East Indies—			
Refined salt .. .. .	320	379	(a)
Other salt .. .. .	12,365	18,280	(a)
French Indo-China—			
Rock-salt and sea-salt .. .. .	411	(a)	(a)
Japan (total imports)—			
Salt .. .. .	214,947	223,690	282,081
Persia (total imports) (i)—			
Common salt .. .. .	5,767	6,852	6,275
Refined salt .. .. .	99	30	201
Philippine Islands—			
Salt .. .. .	236	236	206

(a) Information not available.

(i) Years ended March 21 of the year stated.



## SILVER

## PRODUCTION OF SILVER ORE

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

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	46,705	32,775	35,989
Bechuanaland Protectorate	418	157	148
Gold Coast (estimated) ..	5,500	5,000	7,500
Kenya .. ..	139	113	131
Nigeria (estimated) ..	28,400	2,800	6,400
Northern Rhodesia ..	18,344	88	2,249
Southern Rhodesia ..	113,241	103,802	87,233
South-West Africa ( <i>d</i> ) ..	764,286	728,165	892,404
Tanganyika Territory ..	918	1,562	1,027
Union of South Africa ..	1,011,736	1,031,376	1,031,779
Canada .. ..	22,736,698	21,936,407	23,143,261
British Guiana (estimated)	750	570	820
India .. ..	6,024,806	7,425,810	7,298,327
Federated Malay States (estimated) .. ..	1,040	1,650	2,360
Australia .. ..	11,607,206	9,593,876	10,071,069
New Zealand ( <i>m</i> ) .. ..	421,920	444,486	415,706
Papua (years ended June 30)	4,980	( <i>a</i> )	( <i>a</i> )
Total ..	42,800,000	41,300,000	43,000,000
FOREIGN COUNTRIES			
Austria .. ..	52,605	49,678	38,387
Czechoslovakia .. ..	1,043,525	1,103,003	( <i>a</i> )
France .. ..	592,750	( <i>a</i> )	( <i>a</i> )
Germany .. ..	5,293,433	5,220,839	5,512,664
Greece .. ..	306,736	262,530	( <i>a</i> )
Italy .. ..	754,040	766,282	( <i>a</i> )
Jugoslavia .. ..	53,800	61,100	( <i>a</i> )
Norway .. ..	327,384	381,376	281,865
Poland .. ..	189,910	223,025	360,659
Rumania .. ..	140,688	73,270	90,727
Russia (years ended Sept.30)	590,596	( <i>a</i> )	( <i>a</i> )
Spain .. ..	3,056,565	2,526,443	( <i>a</i> )
Sweden .. ..	180,490	68,447	( <i>a</i> )
Algeria .. ..	165,894	116,415	121,045
Mexico .. ..	( <i>b</i> )112,684,625	108,537,307	108,700,372
United States .. ..	59,625,682	58,426,004	61,233,321
Central America (estimated)	2,000,000	2,000,000	2,000,000
Argentina (estimated) ..	15,000	15,000	15,000

*(a)* Information not available.*(b)* Figures refer to estimated content of ores extracted; later years to estimated recovery.*(d)* Years ended March 31 of the year following that stated.*(m)* Silver content of exports, excluding jewellers' sweepings.

## PRODUCTION OF SILVER ORE (Cont.)

Producing Country	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Bolivia (exports) .. ..	5,402,840	5,638,756	6,214,531
Brazil .. ..	20,000	26,000	(a)
Chile .. ..	1,504,476	1,443,784	(a)
Colombia .. ..	58,778	48,634	52,269
Ecuador (estimated) ..	88,000	80,000	(a)
Guiana (estimated) ..	8,000	7,500	(a)
Peru .. ..	21,018,352	23,805,017	21,163,000
Venezuela (estimated) ..	3,200	4,000	(a)
China (estimated) ..	100,000	100,000	(a)
Dutch East Indies ..	2,285,322	2,035,182	(a)
Formosa .. ..	18,078	(a)	(a)
French Indo-China ..	10,159	40,316	(a)
Japan .. ..	4,531,441	5,144,763	4,922,964
Korea .. ..	52,000	56,082	54,724
Turkey .. ..	225,100	220,000	(a)
Philippine Islands ..	31,194	36,503	94,547
<b>Total ..</b>	<b>222,000,000</b>	<b>220,000,000</b>	<b>221,000,000</b>
<b>WORLD'S TOTAL</b>	<b>265,000,000</b>	<b>261,000,000</b>	<b>264,000,000</b>

(a) Information not available.

## EXPORTS OF SILVER\*

*(Domestic Produce)**(In terms of metal)*

(Troy ounces)

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom (in- cluding re-exports)—			
Refined bullion ..	59,502,000	69,159,000	70,488,000
Unrefined bullion ..	—	—	6,717,000
Southern Rhodesia—			
Concentrates .. ..	12,000	18,000	25,000
Bullion .. ..	96,000	86,000	69,000
Union of South Africa—			
Concentrates .. ..	44,000	11,000	6,000
Silver in pig-lead ..	3,000	—	1,000
Bullion .. ..	1,014,000	1,065,000	739,000
Canada—			
Ore, concentrates, etc.	5,445,000	6,816,000	7,058,000
Bullion .. ..	15,971,000	14,806,000	14,880,000
British India (including re-exports)—			
Bullion .. ..	13,301,000	34,100,000	22,111,000
British Malaya (including re-exports)—			
Bullion .. ..	339,000	517,000	505,000
Australia (years ended June 30)—			
Ores .. ..	416,000	345,000	316,000
Concentrates and matte	1,779,000	2,825,000	1,492,000
Bullion .. ..	7,677,000	7,455,000	7,741,000
New Zealand—			
Concentrates, sweep- ings, etc. .. ..	6,000	4,000	550
Bullion .. ..	421,000	442,000	416,000
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. ..	193,000	714,000	386,000

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

## EXPORTS OF SILVER (Cont.)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.			
Bullion, etc. .. ..	3,128,000	3,128,000	2,848,000
Czechoslovakia—			
Bullion .. ..	4,000	2,306,000	140,000
Scrap .. ..	4,000	100	200
Denmark—			
Bullion, etc. .. ..	11,000	32,000	180,000
France—			
Bullion .. ..	5,738,000	11,159,000	6,611,000
Beaten, rolled or drawn	229,000	954,000	270,000
Germany—			
Bullion, etc. .. ..	4,920,000	7,860,000	9,980,000
Hungary—			
Bullion .. ..	2,500	2,500	500
Italy—			
Bullion, etc. .. ..	373,000	128,000	96,000
Netherlands—			
Bullion and scrap ..	40,000	215,000	756,000
Norway—			
Scrap .. ..	73,000	86,000	59,000
Poland—			
Bullion .. ..	18,000	9,000	138,000
Spain (c)—			
Bullion .. ..	1,435,000	1,083,000	1,215,000
Sweden—			
Bullion .. ..	102,000	118,000	73,000
Switzerland—			
Bullion .. ..	159,000	494,000	727,000
Egypt—			
Bullion .. ..	595,000	787,000	156,000
Mexico—			
Bullion .. ..	104,574,000	108,537,000	108,700,000
Nicaragua—			
Bullion .. ..	—	1,700	—
Concentrates .. ..	38,000	13,000	40,000
United States—			
Ore and base bullion	133,000	105,000	10,000
Refined bullion ..	106,152,000	109,988,000	118,403,000
Argentina—			
Ores .. ..	1,600	—	(a)
Bars .. ..	1,300	—	(a)
Bolivia—			
Ores .. ..	5,403,000	5,639,000	6,215,000

EXPORTS OF SILVER (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Ore (excluding mixed ore) .. .. .	86,000	52,000	39,000
Bullion .. .. .	230,000	231,000	175,000
Colombia—			
Bullion .. .. .	3,500	(a)	(a)
Honduras—			
Bullion .. .. .	2,241,000	(a)	(a)
Peru—			
Ores, concentrates, etc.	5,490,000	4,431,000	4,122,000
Bullion, etc. .. .. .	13,364,000	16,842,000	16,834,000
Scrap .. .. .	5,500	900	900
China—			
Bullion .. .. .	8,450,000	2,340,000	5,220,000
Dutch East Indies—			
Bullion .. .. .	2,396,000	1,991,000	(a)
Japan—			
Bullion .. .. .	11,228,000	2,653,000	2,935,000

(a) Information not available.

(c) Including re-exports.

## IMPORTS OF SILVER\*

*(Less Re-exports)**(In terms of metal)*

(Troy ounces)

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom (total imports)—			
Unrefined bullion .. .. .	1,961,000	9,640,000	22,377,000
Refined bullion .. .. .	53,944,000	62,996,000	49,451,000
Gold Coast—			
Bullion .. .. .	700	—	—
Kenya and Uganda—			
Bullion .. .. .	3,900	690	2,200
Nigeria—			
Bullion .. .. .	14,000	9,600	4,500
Sierra Leone—			
Bullion .. .. .	770	1,300	1,200
Union of South Africa (total imports)—			
Bullion .. .. .	800	500	240
Canada—			
Bullion .. .. .	1,701,000	1,813,000	1,922,000
British Guiana—			
Bullion .. .. .	700	1,300	700
Ceylon—			
Bullion .. .. .	290,000	234,000	291,000
Cyprus—			
Bullion .. .. .	5,000	6,000	10,000
British India—			
Bullion .. .. .	113,241,000	107,235,000	76,355,000
British Malaya (total imports)—			
Bullion .. .. .	542,000	641,000	817,000
Australia (years ended June 30)—			
Matte .. .. .	3,000	7,000	4,000
Bullion .. .. .	29,000	41,000	37,000
Fiji—			
Bullion .. .. .	6,000	4,500	700
New Zealand—			
Bullion .. .. .	7,000	6,000	10,000

## IMPORTS OF SILVER (Cont.)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES</b>			
Austria—			
Bullion .. .. .	6,388,000	3,511,000	2,450,000
Belgium-Luxemburg E.U.—			
Bullion, etc. .. .	103,000	907,000	1,200
Czechoslovakia—			
Bullion and scrap ..	163,000	562,000	1,448,000
Denmark—			
Bullion, etc. .. .	1,230,000	1,320,000	1,670,000
Finland—			
Bullion, etc. .. .	272,000	407,100	405,000
France—			
Bullion .. .. .	2,554,000	1,480,000	491,000
Beaten, rolled or drawn..	73,000	149,000	178,000
Germany—			
Ore (b) .. .. .	(£10,600)	(£8,300)	(£13,000)
Bullion, etc. .. .	15,390,000	8,460,000	11,520,000
Scrap .. .. .	11,330,000	13,930,000	36,350,000
Greece—			
Bullion .. .. .	—	400	1,900
Hungary—			
Bullion .. .. .	(a)	17,000	947,000
Italy—			
Bullion, etc. .. .	1,781,000	2,094,000	2,459,000
Jugoslavia—			
Bullion, etc. .. .	1,700	1,600	3,200
Latvia—			
Bullion and wire.. ..	28,000	70,000	80,000
Lithuania—			
Bullion, etc. .. .	1,000	5,000	4,000
Netherlands—			
Bullion and scrap ..	581,000	2,814,000	4,934,000
Norway—			
Bullion .. .. .	440,000	310,000	(a)
Sheets and wire .. .	340,000	330,000	386,000
Poland—			
Bullion, etc. .. .	74,000	322,000	411,000
Portugal—			
Bullion .. .. .	7,000	7,000	8,000

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

(a) Information not available.

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

ABSORPTION OF NEW SILVER IN COINAGE (Cont.)  
(Troy ounces)

Country	Silver ingots purchased in the market and bearing refiner's mark			Silver withdrawn from coinage and sold on the market		
	1927	1928	1929	1927	1928	1929
Cuba .. ..	Nil	Nil	(a)	Nil	Nil	(a)
Guatemala ..	(a)	(a)	Nil	(a)	(a)	Nil
Honduras ..	Nil	Nil	(a)	Nil	Nil	(a)
Haiti .. ..	Nil	Nil	(a)	Nil	Nil	Nil
Mexico(d)	2,168,968	483,407	(a)	(a)	(a)	(a)
Nicaragua ..	(a)	(a)	(a)	Nil	Nil	Nil
Panama .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Salvador ..	Nil	Nil	Nil	Nil	Nil	(a)
United States (silver receipts at mint) ..	(b)3,258,807	(b) 960,507	(b) 737,036	Nil	Nil	Nil
Argentina ..	Nil	Nil	Nil	Nil	Nil	Nil
Bolivia .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Brazil .. ..	129,551	160,307	224,570	Nil	Nil	Nil
Chile .. ..	1,432,071	(a)	Nil	Nil	Nil	Nil
Colombia.. ..	(a)	(a)	Nil	41,249	63,402	(a)
Ecuador .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Peru .. ..	Nil	41,272	Nil	Nil	Nil	Nil
Paraguay.. ..	Nil	Nil	Nil	Nil	Nil	Nil
Uruguay .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Venezuela ..	(a)	(a)	(a)	(a)	(a)	(a)
China (c) (d)	(a)	119,876,000	(a)	(a)	(a)	(a)
Japan .. ..	Nil	Nil	(a)	Nil	57,066	(a)
Persia .. ..	1,438,658	1,314,159	8,223,956	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 during these years.

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

(e) Coinage at Tientsin, Nanking and Wuchang mints.



**STRONTIUM MINERALS****PRODUCTION OF STRONTIUM MINERALS**

(Long tons)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom— Celestite (exports) .. ..	4,052	4,795	3,000
FOREIGN COUNTRIES			
Germany (Prussia)— Strontianite.. .. .	710	857	717

*(a)* Information not available.**EXPORTS OF STRONTIUM MINERALS, ETC.***(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom— Celestite .. .. .	4,052	4,795	3,000
FOREIGN COUNTRIES			
Czechoslovakia— Strontium nitrate .. ..	—	134	—
France— Strontium compounds ..	2	1	4
Germany ( <i>e</i> )— Strontium compounds ..	1,214	330	731
Strontianite and witherite	936	503	391

*(e)* Celestite recorded with barytes.

IMPORTS OF SILVER (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Spain (total imports)—			
Bullion .. .. .	6,000	109,000	65,000
Sweden—			
Bullion .. .. .	932,000	877,000	1,242,000
Switzerland—			
Bullion .. .. .	1,446,000	1,848,000	2,178,000
Egypt—			
Bullion .. .. .	1,317,000	1,786,000	1,835,000
French West Africa—			
Bullion, etc. .. ..	1,500	3,200	(a)
Morocco (French Zone)—			
Bullion, etc. .. ..	(a)	500	22,000
Tunis—			
Beaten, drawn or rolled	108,000	69,000	76,000
United States—			
Ore and base bullion ..	60,830,000	65,889,000	62,335,000
Refined bullion .. ..	14,204,000	13,778,000	21,604,000
Argentina—			
Bullion .. .. .	76,000	74,000	(a)
Brazil (total imports)—			
Bullion, .. .. .	23,000	27,000	28,000
Chile—			
Bullion .. .. .	—	870,000	100
Colombia—			
Bullion .. .. .	165,000	(a)	(a)
China—			
Bullion .. .. .	97,900,000	139,410,000	151,110,000
Dutch East Indies—			
Bullion and scrap ..	557,000	985,000	(a)
French Indo-China—			
Bullion, etc. .. ..	348,000	151,000	57,000
Japan (total imports)—			
Bullion .. .. .	6,638,000	1,818,000	68,000
Persia (total imports) ( <i>k</i> )—			
Bullion .. .. .	1,000	3,940,000	330,000
Turkey—			
Bullion, etc. .. ..	1,400	2,500	2,400

(a) Information not available.

(k) Years ended March 21 of the year stated.

## ABSORPTION OF NEW SILVER IN COINAGE.

(Troy 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 on the market		
	1927	1928	1929	1927	1928	1929
United Kingdom	Nil	Nil	Nil	2,787,597	6,602,994	3,027,09
Union of South Africa .. ..	Nil	Nil	318,248	(f) Nil	(f) Nil	(f) Nil
Canada .. ..	Nil	Nil	Nil	Nil	Nil	Nil
India .. ..	Nil	Nil	Nil	9,196,840	(e) Nil	18,866,77
Australia .. ..	1,742,459	853,420	57,152	6,599	Nil	23,05
Austria .. ..	Nil	Nil	94,315	Nil	Nil	Nil
Belgium .. ..	Nil	Nil	Nil	Nil	7,195,047	Nil
Bulgaria .. ..	Nil	Nil	(a)	Nil	Nil	(a)
Czechoslovakia .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Denmark .. ..	Nil	Nil	Nil	532,661	269,128	Nil
Estonia .. ..	Nil	Nil	Nil	Nil	Nil	(a)
Finland .. ..	Nil	Nil	(a)	Nil	208	Nil
France .. ..	3,218,012	1,625,179	(a)	(d) Nil	(d) Nil	(a)
Germany .. ..	(b)	(b)	Nil	Nil	Nil	Nil
Greece .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Hungary .. ..	1,490,306	Nil	1,028,824	Nil	Nil	Nil
Italy(c) .. ..	25,852,084	5,439,269	Nil	(a)	(a)	Nil
Jugoslavia .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Latvia .. ..	Nil	Nil	Nil	20,380	6,440	8,87
Lithuania .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Netherlands .. ..	127,265	1,013,615	3,052,546	Nil	Nil	Nil
Norway .. ..	Nil	Nil	(a)	Nil	Nil	(a)
Poland .. ..	Nil	6,510,375	(a)	Nil	1,205,625	(a)
Portugal .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Rumania .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Russia .. ..	(a)	(a)	6,534,140	(a)	(a)	(a)
Spain .. ..	Nil	Nil	Nil	Nil	Nil	Nil
Sweden .. ..	160,838	64,410	393,956	Nil	Nil	Nil
Switzerland .. ..	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 during these years was made from old coins no longer in currency.

(c) Weight of pure silver in coins issued during these years.

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

(e) Not including sales of unrefined silver.

(f) Not including sales by the East and West African Currency Boards, 1927, 570,786—1928, 399,621—1929, 580,091 fine ounces.

## IMPORTS OF STRONTIUM MINERALS, ETC.

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES			
Czechoslovakia—			
Strontium nitrate .. ..	2	1	2
France—			
Strontium compounds ..	8	21	18
Germany ( <i>e</i> )—			
Strontianite and witherite ..	868	3,828	679
Strontium compounds ..	310	—	1
Italy—			
Strontium compounds( <i>b</i> ) ..	5	7	4
Poland—			
Strontianite and celestite ..	<i>2 cwt.</i>	2	<i>2 cwt.</i>
United States—			
Strontianite and celestite ..	1,210	678	869
Strontium compounds ..	683	832	1,175
Chile—			
Strontium compounds ..	—	1	<i>4 cwt.</i>
Colombia—			
Strontium compounds ..	<i>6 cwt.</i>	( <i>a</i> )	( <i>a</i> )
Turkey—			
Strontium compounds ..	1	7	<i>6 cwt.</i>

*(a)* Information not available.*(b)* Excluding nitrate of strontium.*(e)* Celestite recorded with barytes.

## SULPHUR

## PRODUCTION OF SULPHUR

(Long tons)

Producing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom, and Irish Free State—			
Spent oxide ( <i>j</i> ) .. ..	155,500	174,000	174,500
New Zealand—			
Sulphur .. ..	469	719	967
FOREIGN COUNTRIES			
France—			
Sulphur rock (sulphur content) .. ..	49	(a)	(a)
Greece—			
Sulphur rock .. ..	2,394	299	(a)
Refined sulphur .. ..	245	25	(a)
Italy—			
Crude sulphur—			
Fused .. ..	300,888	291,430	} 348,000
Ground .. ..	23,487	31,051	
Spain—			
Sulphur rock .. ..	74,632	75,519	(a)
Refined sulphur ( <i>b</i> ) .. ..	19,491	20,992	23,588
United States—			
Crude sulphur .. ..	2,111,618	1,981,873	2,362,389
Chile—			
Sulphur rock .. ..	12,303	15,423	16,000
China—			
Sulphur (estimated) .. ..	5,500	5,500	5,500
Dutch East Indies—			
Sulphur .. ..	348	(a)	(a)
Formosa—			
Sulphur rock .. ..	872	(a)	(a)
Japan—			
Sulphur rock .. ..	16,505	13,109	(a)
Refined sulphur .. ..	60,371	68,956	58,718
Turkey—			
Sulphur .. ..	49	(a)	(a)

(a) Information not available.

(b) Partly from imported crude sulphur.

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

1927	..	49.2	per cent.
1928	..	48.8	" "
1929	..	48.8	" "

## EXPORTS OF SULPHUR

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	313	484	726
Union of South Africa ..	9	10	9
British Malaya (including re- exports) .. .. .	55	38	25
FOREIGN COUNTRIES			
Austria.. .. .	97	74	35
Belgium-Luxemburg E.U. ..	3,902	3,365	2,830
Czechoslovakia .. ..	22	9	10
France—			
Crude .. .. .	34,904	26,077	12,885
Refined lump .. ..	685	2,296	7,386
Flowers of sulphur.. ..	13,156	12,838	11,754
Precipitated sulphur ..	33	103	615
Germany—			
Sulphur, etc. .. ..	47,405	65,240	58,855
Italy—			
Ore .. .. .	—	—	30
Crude lump .. .. .	149,058	131,749	168,740
Crude ground .. ..	8,550	15,098	12,245
Refined lump .. ..	22,888	19,250	18,798
Refined ground .. ..	22,242	15,069	10,933
Flowers of sulphur ..	7,668	8,106	7,587
Netherlands—			
Refined .. .. .	13	39	43
Norway .. .. .	—	—	574
Spain (including re-exports)..	46	3	3
Sweden .. .. .	7	2	—

EXPORTS OF SULPHUR (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Algeria—			
Crude .. .. .	2,854	—	—
Refined .. .. .	13	30	6
Flowers of sulphur .. .. .	1,240	302	47
United States—			
Crude .. .. .	789,371	685,051	855,542
Flowers of sulphur .. .. .	13,512	19,882	17,214
Chile—			
Refined and flowers .. .. .	466	429	320
Dutch East Indies .. .. .	12	3	(a)
Formosa .. .. .	665	244	(a)
Japan .. .. .	3,796	5,238	10,277

(a) Information not available.

## IMPORTS OF SULPHUR

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	113,302	92,413	95,115
Malta—			
Flowers of sulphur .. ..	67	75	85
Mauritius .. ..	1,340	1,215	601
Northern Rhodesia .. ..	1	271	1,426
Southern Rhodesia—			
Flowers of sulphur .. ..	4	3	6
South-West Africa .. ..	2	13	2
Union of South Africa (total imports)—			
Rock-sulphur .. ..	13,404	14,140	19,355
Flowers of sulphur .. ..	574	966	465
British Guiana.. ..	41	—	34
Canada.. ..	158,648	162,806	209,755
Newfoundland (years ended June 30) .. ..	6,972	7,937	5,184
British India (total imports)..	17,957	17,227	19,223
British Malaya (total imports)	181	331	183
Ceylon .. ..	124	81	100
Cyprus .. ..	128	352	163
Palestine (total imports) ..	96	12	5
Australia .. ..	106,437	97,483	92,896
Fiji .. ..	5	6	5
New Zealand .. ..	30,786	34,447	33,316
FOREIGN COUNTRIES			
Austria .. ..	15,962	13,680	11,385
Belgium-Luxemburg E.U. ..	11,357	10,451	11,139
Bulgaria .. ..	263	276	(a)
Czechoslovakia—			
Sulphur .. ..	7,021	7,598	9,162
Flowers of sulphur .. ..	263	142	83
Denmark .. ..	476	341	404
Estonia—			
Crude .. ..	2,990	5,670	5,750
Refined .. ..	23	19	9
Finland.. ..	48,584	53,867	58,015
France—			
Crude .. ..	229,990	151,830	216,071
Refined lump .. ..	2,291	2,160	1,137
Flowers of sulphur.. ..	1,468	883	—
Precipitated .. ..	5	11	13



IMPORTS OF SULPHUR (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Germany—			
Sulphur, etc. .. ..	92,079	103,204	118,532
Greece .. .. .	10,659	12,086	5,806
Hungary .. .. .	1,881	1,923	(a)
Italy .. .. .	18	21	34
Jugoslavia—			
Crude .. .. .	392	351	1,162
Refined .. .. .	2,976	2,167	1,401
Latvia—			
Crude .. .. .	1,861	2,400	2,700
Refined .. .. .	10	24	11
Flowers of sulphur.. ..	37	45	33
Lithuania .. .. .	23	16	213
Netherlands—			
Refined .. .. .	1,371	1,424	1,279
Other .. .. .	858	946	1,063
Norway .. .. .	16,220	14,721	17,348
Poland—			
Crude .. .. .	548	486	} 1,943
Refined .. .. .	1,281	1,183	
Flowers of sulphur .. ..	54	98	
Portugal—			
Crude .. .. .	5,253	5,773	4,482
Flowers of sulphur.. ..	6,263	4,289	3,170
Other sulphur .. .. .	(a)	26	149
Rumania—			
Crude .. .. .	534	(a)	(a)
Russia (years ended Sept.30)..	11,350	17,545	16,232
Spain (total imports)—			
Crude, unground .. ..	16,008	13,572	16,333
Refined, unground .. ..	280	163	252
Do. ground, and flowers of sulphur .. .. .	2,498	3,047	1,794
Sweden .. .. .	72,437	61,846	84,427
Switzerland—			
Refined .. .. .	4,553	5,234	4,729
Flowers of sulphur.. ..	357	498	405
Algeria—			
Crude .. .. .	21,953	19,707	10,749
Refined .. .. .	48	653	4,738
Flowers of sulphur.. ..	7,043	7,955	5,945
Angola .. .. .	8	32	(a)

(a) Information not available.

IMPORTS OF SULPHUR (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Belgian Congo.. ..	604	53	4,210
Egypt .. ..	1,737	1,705	1,613
Morocco .. ..	243	368	702
Mozambique .. ..	95	106	216
Tunis—			
Crude .. ..	3,901	4,451	1,450
Refined .. ..	695	554	1,127
Costa Rica (total imports) ..	12	(a)	(a)
Cuba .. ..	(a)	3,020	(a)
Guadeloupe .. ..	72	(a)	(a)
Mexico .. ..	19,451	15,113	(a)
Panama .. ..	14	17	14
Salvador .. ..	42	36	(a)
United States—			
Sulphur ore and sulphur ..	3,500	5,000	1,480
Argentina—			
Crude .. ..	12,312	10,963	(a)
Refined .. ..	585	4,416	(a)
Bolivia .. ..	34	(a)	(a)
Brazil (total imports) ..	6,485	9,651	8,610
Chile—			
Refined .. ..	104	167	82
Colombia—			
Flowers of sulphur ..	135	(a)	(a)
Peru .. ..	181	282	234
Uruguay .. ..	1,885	2,469	2,094
China .. ..	2,860	4,436	3,753
Dutch East Indies .. ..	15,817	14,095	(a)
French Indo-China .. ..	108	320	126
Turkey—			
Refined and flowers of sulphur .. ..	646	5,795	} 3,710
Precipitated .. ..	92	3	

(a) Information not available.

## TALC.

## PRODUCTION OF TALC

(Long tons).

Producing Country.	1927	1928	1929
BRITISH EMPIRE.			
United Kingdom .. ..	—	161	29
Union of South Africa ..	344	518	435
Canada (sales) .. ..	14,751	(g) 13,326	(g) 13,847
India .. .. .	5,053	5,539	7,217
Australia .. .. .	1,069	1,327	569
Newfoundland (exports) (e)	—	200	—
FOREIGN COUNTRIES.			
Austria .. .. .	(f) 16,864	24,000	(f) 19,293
Finland .. .. .	1,033	4,650	(a)
France .. .. .	74,400	(a)	(a)
Germany .. .. .	6,280	7,748	(a)
Greece .. .. .	210	30	(a)
Italy .. .. .	32,400	32,469	34,000
Norway .. .. .	7,487	7,698	8,200
Rumania (d) .. .. .	860	2,130	1,060
Russia (years ended Sept.			
30) .. .. .	2,085	2,717	(a)
Spain (b) .. .. .	2,777	3,278	(a)
Sweden .. .. .	3,420	4,799	(a)
Morocco (French zone) (ex-			
ports) .. .. .	2	527	600
United States (sales) (c) ..	171,711	181,229	198,071
Uruguay (exports) .. ..	1,185	1,727	928
Japan .. .. .	59,000	(a)	(a)

(a) Information not available.

(b) In addition the following were quarried : 433 cubic yards in 1927, and 1,983 cubic yards in 1928.

(c) Excluding steatite, which is 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.

(f) Exports.

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

1928.. .. .	£8,225
1929.. .. .	£9,807

## EXPORTS OF TALC

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. .. .	120	88	426
Canada .. .. .	9,557	9,773	10,178
FOREIGN COUNTRIES			
Austria .. .. .	16,864	19,443	19,293
Belgium-Luxemburg E.U. ..	522	178	83
Czechoslovakia .. .. .	44	136	149
Finland .. .. .	1,261	908	460
France .. .. .	30,384	37,314	36,926
Germany .. .. .	646	706	975
Greece .. .. .	225	147	153
Italy .. .. .	17,939	20,251	21,782
Norway .. .. .	6,927	6,423	9,337
Rumania .. .. .	186	239	(a)
Sweden .. .. .	108	21	—
Morocco (French zone) ..	2	527	600
Uruguay .. .. .	1,185	1,727	928

(a) Information not available.

## IMPORTS OF TALC

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. .. .	15,240	13,679	16,309
Canada .. .. .	4,382	4,840	4,925
Australia .. .. .	—	—	332
Newfoundland (b) .. .. .	—	200	—
FOREIGN COUNTRIES			
Austria .. .. .	439	240	270
Belgium-Luxemburg E.U. .. .. .	3,997	4,746	4,462
Czechoslovakia .. .. .	1,726	1,983	2,323
Denmark .. .. .	1,069	1,013	1,375
Estonia .. .. .	70	158	246
Finland .. .. .	1,641	984	502
France .. .. .	2,523	4,800	6,147
Germany .. .. .	20,652	23,127	23,890
Jugoslavia .. .. .	343	339	390
Latvia .. .. .	24	60	55
Lithuania .. .. .	65	37	(a)
Poland .. .. .	1,646	1,905	(a)
Rumania .. .. .	962	(a)	(a)
Russia (years ended Sept. 30) .. .. .	317	3	1
Sweden .. .. .	2,806	3,096	3,739
Algeria .. .. .	84	179	482
Egypt .. .. .	1,289	1,369	1,463
Tunis .. .. .	511	431	390
Panama .. .. .	23	15	32
United States .. .. .	22,431	24,114	27,900
Argentina .. .. .	1,171	1,128	(a)
Chile .. .. .	159	75	239
Peru .. .. .	67	85	82
Formosa .. .. .	29	9	(a)
French Indo-China .. .. .	22	(a)	(a)
Japan (total imports) .. .. .	27,330	30,225	38,920
Turkey .. .. .	108	320	(a)

(a) Information not available.

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

## TIN

## PRODUCTION OF TIN ORE

*(In terms of metal)*

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom .. ..	2,593	2,761	3,271
Nigeria .. .. .	8,056	9,132	10,734
Southern Rhodesia .. ..	23	7	13
South-West Africa .. ..	147	161	171
Swaziland .. .. .	106	130	130
Tanganyika Territory .. ..	36	37	14
Uganda .. .. .	80	186	225
Union of South Africa .. ..	1,147	1,249	1,218
India .. .. .	2,447	1,946	2,649
Federated Malay States (exports) .. .. .	52,179	61,935	67,041
Unfederated Malay States	2,105	2,680	2,326
Straits Settlements .. ..	68	45	(a)
Australia .. .. .	3,144	2,890	2,239
<b>Total .. .. .</b>	<b>72,000</b>	<b>83,200</b>	<b>90,000</b>
<b>FOREIGN COUNTRIES</b>			
Czechoslovakia .. ..	32	26	(a)
France .. .. .	25	(a)	(a)
Portugal .. .. .	700	700	500
Spain .. .. .	150	215	(a)
Belgian Congo .. ..	872	784	978
French Morocco .. ..	5	10	(a)
Mexico .. .. .	—	2	5
United States .. ..	24	41	35
Argentina .. .. .	12	25	(a)
Bolivia (exports) .. ..	35,808	41,410	46,337
China (exports of ingots) ..	6,220	7,032	6,778
Dutch East Indies .. ..	33,934	34,943	35,700
French Indo-China .. ..	699	797	749
Japan (smelter) .. ..	669	733	(a)
Siam .. .. .	7,584	7,572	10,517
<b>Total .. .. .</b>	<b>87,000</b>	<b>94,000</b>	<b>103,000</b>
<b>WORLD'S TOTAL</b>	<b>159,000</b>	<b>177,000</b>	<b>193,000</b>

(a) Information not available.

## SMELTER PRODUCTION OF TIN

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom (estimated) .. .. .	42,000	49,000	57,000
British Malaya (c) .. .. .	83,473	99,872	105,514
Australia .. .. .	2,989	3,133	2,260
Total ..	128,000	152,000	165,000
FOREIGN COUNTRIES			
Belgium (estimated) ..	900	900	900
France .. .. .	414	500	700
Germany .. .. .	6,138	4,669	7,000
Italy .. .. .	89	111	(a)
Netherlands (estimated) ..	—	—	1,000
Portugal .. .. .	3	(a)	(a)
United States (b) .. .. .	—	—	—
China (exports) .. .. .	6,220	7,032	6,778
Dutch East Indies (exports)	15,560	13,970	13,340
French Indo-China ..	307	258	299
Japan .. .. .	669	733	(a)
Siam (exports less imports)	44	3	—
Total ..	30,000	28,000	31,000
WORLD'S TOTAL	158,000	180,000	196,000

(a) Information not available.

(b) Secondary tin recovered as metal and in alloys and chemical compounds was as follows—

1927 .. 32,946 long tons.

1928 .. 31,964 " "

1929 .. 30,600 " "

(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	1927	1928	1929
<b>BRITISH EMPIRE</b>			
<b>United Kingdom—</b>			
Ore and concentrates ..	1,800	2,040	391
Blocks, ingots, bars and slabs	27,144	23,466	30,437
Soft solder .. .. .	2,482	2,952	3,050
Tin-foil .. .. .	366	232	310
<b>Nigeria—</b>			
Ore .. .. .	10,926	13,070	15,129
<b>Southern Rhodesia—</b>			
Ore .. .. .	12	10	12
<b>South-West Africa—</b>			
Ore .. .. .	221	237	237
<b>Tanganyika—</b>			
Ore and concentrates ..	34	52	19
<b>Uganda—</b>			
Ore .. .. .	115	275	324
<b>Union of South Africa—</b>			
Ore and concentrates ..	1,964	1,942	1,818
<b>British India—</b>			
Ore .. .. .	2,232	2,284	3,376
Blocks, ingots, bars and slabs	1,201	684	691
<b>British Malaya (including re- exports)—</b>			
Ore .. .. .	2	—	4
Tin .. .. .	83,773	99,052	102,024
<b>Australia—</b>			
Ore, dross etc. ( <i>Sn content</i> )	258	580	1
Ingots .. .. .	1,482	1,560	1,062
<b>FOREIGN COUNTRIES</b>			
<b>Austria—</b>			
Crude tin, alloys and scrap	605	175	179
<b>Belgium-Luxemburg E.U.—</b>			
Ore .. .. .	32	47	14
Ingots, pigs, scrap, etc. ..	639	569	554
Sheets, wire, etc. .. ..	131	109	226



EXPORTS OF TIN (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Czechoslovakia—			
Crude tin, scrap and alloys	120	107	137
Denmark—			
Blocks, bars and scrap ..	6	18	(a)
Tin-foil .. .. .	1	1	(a)
France—			
Ore .. .. .	275	214	329
Scrap .. .. .	829	540	717
Pigs, bars, etc. .. ..	778	778	744
ditto (alloyed) .. ..	479	301	339
Sheets and wire .. ..	179	125	92
Germany—			
Ingots, bars and scrap ..	5,823	5,715	4,987
Tin-foil .. .. .	316	274	292
Hungary .. .. .	15	19	3
Italy—			
Ingots, bars, scrap and alloyed .. .. .	277	216	317
Sheets, wire, etc. and alloyed .. .. .	52	75	37
Netherlands—			
Blocks .. .. .	17	8	421
Sheets, wire, etc. .. ..	73	47	59
Norway—			
Blocks, etc. .. .. .	89	97	116
Poland .. .. .	7	27	(a)
Portugal—			
Ore .. .. .	1,161	760	692
Rumania—			
Ore and scrap .. .. .	16	2	(a)
Spain (including re-exports)—			
Ingots and bars .. .. .	36	35	21
Sweden—			
Crude tin and scrap ..	81	108	127
Sheets, rods, pipes and wire	15	12	4
Switzerland—			
Pigs, bars and slabs ..	21	23	15
Tin-foil .. .. .	467	527	776
Scrap .. .. .	117	78	112
Belgian Congo—			
Ore .. .. .	1,199	1,077	1,306
Egypt—			
Ingots .. .. .	3	2	2
Morocco (French Zone)—			
Ore .. .. .	14	97	—

(a) Information not available.

EXPORTS OF TIN (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
United States—			
Blocks, pigs and bars ..	1,010	349	790
Argentina—			
Ore .. .. .	11	43	(a)
Bolivia—			
Ores, concentrates, etc. ( <i>Sn</i> <i>content</i> ) .. .. .	35,808	41,410	46,337
Peru .. .. .	1	1	—
China—			
Ingots and slabs .. ..	6,220	7,032	6,778
Tin-foil .. .. .	22	33	18
Dutch East Indies—			
Ore .. .. .	24,737	27,975	(a)
Ingots .. .. .	15,560	13,963	13,340
French Indo-China—			
Ore .. .. .	64	199	27
Tin-tungsten ore .. ..	522	945	972
Ingots .. .. .	301	284	241
Japan—			
Tin-foil .. .. .	108	136	83
Siam (including re-exports)—			
Ore .. .. .	10,461	11,264	14,610
Tin .. .. .	44	3	—

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Ore and concentrates ..	63,975	81,317	91,341
Blocks, ingots, bars and slabs	9,275	8,634	2,837
Soft solder .. .. .	319	2	231
Tin-foil .. .. .	399	283	345
Irish Free State—			
Ingots, bars, slabs, etc. ..	19	15	26
Soft solder .. .. .	107	126	150
Kenya and Uganda—			
Bar, plate, or sheet ..	930	958	1,231
Mauritius—			
Slabs, plates and sheets ..	82	125	80
Southern Rhodesia (total imports)—			
Blocks, ingots and bars ..	18	53	12
Plates and sheets .. ..	2	1	—
South-West Africa—			
Bar, sheet, etc. .. .. .	8	3	3
Union of South Africa (total imports)—			
Blocks, ingots and bars ..	712	556	736
Plates and sheets .. ..	18	—	—
Tin-foil .. .. .	30	17	34
Canada—			
Blocks, pigs and bars ..	2,158	2,392	2,551
Tin-foil .. .. .	69	46	46
Jamaica—			
Ingots .. .. .	(£987)	(£40)	(a)
British India (total imports)—			
Blocks, ingots, bars and slabs	3,026	2,816	2,768
Wrought tin .. .. .	11	10	6
British Malaya (total imports)—			
Ore .. .. .	42,254	44,389	48,785
Tin .. .. .	51	3	1
Ceylon—			
Ingots, slabs, plates, etc. ..	70	65	70
Tin solder .. .. .	19	27	52
Cyprus—			
Ingots and bars .. .. .	8	6	6
Plates .. .. .	15	15	7

(a) Information not available.

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE— <i>cont.</i>			
Australia—			
Ores .. .. .	8	—	—
Ingots .. .. .	43	70	186
New Zealand—			
Ingots, etc. .. .. .	289	254	276
Tin-foil .. .. .	14	17	18
FOREIGN COUNTRIES			
Austria—			
Crude tin, alloys and scrap	1,320	1,346	1,210
Belgium-Luxemburg E.U.—			
Ore .. .. .	1,491	1,451	1,243
Ingot, pigs, scrap, etc. ..	1,015	995	1,147
Sheets, wire, etc. .. .. .	63	70	58
Bulgaria—			
Bars, sheets and scrap ..	181	114	183
Czechoslovakia—			
Crude tin, scrap, and alloys	1,610	1,647	1,976
Tin-foil .. .. .	10	14	11
Denmark—			
Blocks, bars and scrap ..	491	508	590
Sheets .. .. .	11	12	31
Tin-foil .. .. .	30	34	45
Estonia—			
Bars and sheets .. .. .	25	28	26
Finland—			
Ingots and sheets .. .. .	194	239	234
Tin solder .. .. .	24	21	17
France—			
Ore .. .. .	1,060	1,232	698
Scrap .. .. .	24	27	34
Pigs, bars, etc. .. .. .	8,222	10,841	12,161
do. (alloyed) .. .. .	284	225	398
Sheets and wire .. .. .	156	165	342
Germany—			
Ore .. .. .	9,422	12,188	9,984
Ingots, bars and scrap ..	15,516	13,199	17,248
Tin-foil .. .. .	128	162	143
Greece .. .. .	149	177	195
Hungary—			
Ore .. .. .	10	—	—
Crude tin .. .. .	484	552	635
Foil .. .. .	40	36	40

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Italy—			
Ingots, bars, scrap and alloyed .. .. .	4,320	4,190	5,239
Sheets, wire, etc., and alloyed .. .. .	28	22	25
Jugoslavia—			
Ore .. .. .	61	—	—
Crude tin .. .. .	432	402	480
Bars, sheets, wire, etc. ..	7	8	27
Tin-foil .. .. .	8	10	8
Latvia—			
Ingots and scrap .. .. .	57	58	62
Lithuania—			
Ingots and scrap .. .. .	9	(a)	10
Netherlands—			
Ore .. .. .	3	—	2,365
Blocks .. .. .	970	980	1,104
Sheets, wire, etc. .. .. .	99	66	59
Norway—			
Crude tin .. .. .	170	252	309
Bars, sheets, filings, etc. ..	75	175	153
Poland—			
Blocks, bars and ingots .. ..	524	744	769
Sheets and solder .. .. .	74	53	(a)
Portugal—			
Sheets, wire, etc. .. .. .	467	399	396
Rumania—			
Crude tin, ingots and scrap	639	(a)	(a)
Tin-foil, wire, etc. .. .. .	11	(a)	(a)
Russia (years ended Sept.30)—			
Blocks, pigs and scrap .. ..	3,689	4,631	4,290
Spain (total imports)—			
Ingots and bars .. .. .	1,375	1,624	1,805
Sheets and tubes .. .. .	11	13	19
Foil .. .. .	44	52	28
Sweden—			
Crude tin and scrap .. .. .	1,458	1,262	1,657
Sheets, rods, pipes and wire	31	40	50
Switzerland—			
Pigs, bars and slabs .. .. .	1,681	1,844	2,196
Sheets, wire, etc. and alloyed	7	11	10
Foil .. .. .	25	23	19
Scrap .. .. .	31	60	203

(a) Information not available.

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Algeria—			
Tin and alloys .. ..	155	197	(a)
Angola—			
Bars and sheets .. ..	24	4	(a)
Belgian Congo.. ..	19	26	29
Egypt—			
Ingots, bars and slabs ..	335	361	409
Morocco (French Zone) ..	19	34	49
Réunion .. ..	4	2	2
Tunis—			
Pigs, bars, and sheets ..	69	67	52
Cuba (total imports) .. ..	211	120	(a)
Mexico—			
Ingots .. ..	330	295	(a)
Salvador .. ..	16	42	(a)
United States—			
Ore ( <i>Sn content</i> ) .. ..	122	130	128
Blocks, pigs, bars, etc. ..	69,960	76,702	85,987
Argentina—			
Ingots .. ..	1,610	1,601	(a)
Brazil (total imports)—			
Bars, rods, sheets and plates	660	791	726
Chile—			
Ingots .. ..	76	128	407
Bars and sheets .. ..	62	56	187
Peru—			
Bars and sheets .. ..	76	40	100
Tin-foil .. ..	1	1	2
Solder .. ..	9	23	22
Uruguay—			
Ingots .. ..	221	249	345
China—			
Ingots and slabs .. ..	3,532	3,820	3,220
Tin and lead foils .. ..	2,022	4,188	4,088
Dutch East Indies—			
Tin and tin-foil .. ..	171	307	(a)
French Indo-China—			
Ingots and alloys .. ..	116	129	138
Sheets .. ..	113	144	83
Formosa—			
Ingots and slabs .. ..	82	104	(a)
Tin-foil .. ..	3	4	(a)

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Japan (total imports)—			
Ingots, slabs, etc. .. ..	3,768	4,028	4,018
Philippine Islands—			
Ingots .. ..	31	35	67
Tin-foil .. ..	105	101	160
Siam (total imports)—			
Crude tin .. ..	—	70	46
Syria .. ..	59	(a)	(a)
Turkey—			
Ingots and bars .. ..	399	368	(b) 279
Sheets and foil .. ..	2	(a)	(a)

(a) Information not available.

(b) First nine months only.

## TITANIUM MINERALS

### PRODUCTION OF TITANIUM MINERALS

(Long tons)

Producing Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Canada (shipments)—			
Titaniferous iron ore ..	1,990	2,004	2,190
India—			
Ilmenite .. .. .	17,809	25,307	23,670
<b>FOREIGN COUNTRIES</b>			
Norway—			
Ilmenite .. .. .	5,642	7,822	7,798
Rutile .. .. .	44	58	43
Portugal			
Ilmenite .. .. .	691	691	55
Senegal—			
Ilmenite .. .. .	4,736	(c) 2,077	(c) 7,154
United States (shipments)—			
Ilmenite .. .. .	3,125	(a)	(a)
Rutile .. .. .	468	(a)	(a)
Brazil—			
Ilmenite .. .. .	1,287	1,474	(c) 6,261

(a) Information not available.

(c) Exports.



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

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE.			
India (Travancore) (b)—			
Ilmenite .. .. .	9,335	22,580	19,950
FOREIGN COUNTRIES			
Norway—			
Ilmenite .. .. .	211	2,621	6,265
Rutile .. .. .	44	52	31
Senegal—			
Ilmenite .. .. .	5,117	2,077	7,145
Brazil—			
Ilmenite .. .. .	1,286	2,069	6,261

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

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

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Titanium and zirconium minerals .. .. .	(h) 34	(h) 2	42
FOREIGN COUNTRIES			
France—			
Titanium oxide .. .. .	70	383	738
United States—			
Ilmenite .. .. .	(a)	15,379	22,386
Titanium and ferro-titanium	8	17	7
Titanium compounds ..	48	55	56

(a) Information not available.

(h) 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	1927	1928	1929
BRITISH EMPIRE.			
United Kingdom—			
Tungsten ore .. ..	12	96	27
Content ( $WO_3$ ) .. ..	7	57	16
Southern Rhodesia—			
Tungsten ore .. ..	30	13	26
India—			
Tungsten ore .. ..	1,160	622	1,348
Tin-tungsten ore .. ..	—	218	(a)
Federated Malay States—			
Wolfram .. ..	20	5	44
Scheelite .. ..	—	—	280
Unfederated Malay States—			
Wolfram .. ..	162	(a)	(a)
Australia—			
Wolfram .. ..	149	203	212
Scheelite .. ..	—	—	9
New Zealand—			
Tungsten ore .. ..	6	6	23
FOREIGN COUNTRIES.			
Czechoslovakia—			
Tin-tungsten ores (Content $WO_3$ ) .. ..	47	43	(a)
France—			
Tungsten ore (tungsten content) .. ..	4	(a)	(a)
Portugal—			
Wolfram .. ..	155	137	344
Tin-tungsten ores .. ..	10	2	6
Russia (years ended Sept. 30)—			
Wolfram (70 per cent. $WO_3$ ) .. ..	29	} 66	(a)
Scheelite (70 per cent. $WO_3$ ) .. ..	9		
Spain—			
Wolfram .. ..	194	186	(a)
Content ( $WO_3$ ) .. ..	71	123	(a)

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

Producing Country	1927	1928	1929
FOREIGN COUNTRIES —(Cont.)			
Mexico—			
Tungsten ore .. ..	—	—	10
United States—			
Concentrates (60 per cent. $WO_3$ ) .. ..	1,039	1,079	741
Argentina—			
Tungsten ore .. ..	9	23	(a)
Bolivia—			
Tungsten concentrates (exports) ( <i>W content</i> ).	51	17	962
China—			
Tungsten ore (exports)	4,956	7,246	8,729
Dutch East Indies—			
Tungsten ore .. ..	9	8	(a)
French Indo-China—			
Tin-tungsten ores ( <i>Con-</i> <i>tent</i> $WO_3$ ) .. ..	126	108	107
Japan—			
Tungsten ore .. ..	44	49	(a)
Korea—			
Tungsten ores (60 per cent. $WO_3$ ) .. ..	(a)	144	14
Siam (exports)—			
Tungsten ore .. ..	8	—	56

(a) Information not available.

## EXPORTS OF TUNGSTEN

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Tungsten ore .. ..	285	196	253
British India—			
Wolfram ore .. ..	2,589	1,599	1,608
British Malaya (including re-exports)—			
Wolfram .. ..	123	207	290
Scheelite .. ..	—	—	276
Australia (including re-exports)—			
Wolfram .. ..	176	101	233
New Zealand—			
Scheelite .. ..	13	5	23
FOREIGN COUNTRIES			
Czechoslovakia—			
Tungsten ore .. ..	58	91	81
Portugal—			
Tungsten ore .. ..	175	142	284
Sweden—			
Ferro-tungsten, etc. ..	3	—	1
United States—			
Tungsten and ferro-tungsten	9	7	46
Argentina—			
Tungsten ore .. ..	8	23	(a)
Bolivia—			
Tungsten ore ( <i>W content</i> )	51	17	962
China—			
Tungsten ore .. ..	4,956	7,246	8,729

EXPORTS OF TUNGSTEN (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
French Indo-China—			
Tin-tungsten ore .. ..	522	945	972
Tungsten ore .. ..	20	90	67
Siam—			
Tungsten ore .. ..	8	—	56

(a) Information not available.

## IMPORTS OF TUNGSTEN

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Tungsten ore .. ..	1,526	964	1,630
British Malaya (total imports)—			
Tungsten ore .. ..	—	—	42
FOREIGN COUNTRIES			
Czechoslovakia—			
Tungsten ore .. ..	—	16	—
Germany—			
Tungsten ore .. ..	4,094	4,328	3,714
Jugoslavia—			
Tungsten ore .. ..	—	27	20
Ferro-tungsten .. ..	—	31	—
Sweden—			
Ferro-tungsten, etc. ..	208	323	331
United States (total imports)—			
Tungsten and alloys ( <i>W</i> <i>content</i> ) .. ..	720	1,219	3,040

## URANIUM MINERALS

PRODUCTION OF URANIUM MINERALS  
(Cwt.)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	—	(b)	(b)
FOREIGN COUNTRIES			
Czechoslovakia (U <sub>3</sub> O <sub>8</sub> ) ..	341	378	(a)
Portugal .. ..	158	2,815	(a)
Belgian Congo .. ..	(i)	(i)	(i)
Madagascar—			
Betafite .. .. .	} 3	—	(a)
Euxenite .. .. .			
United States (U <sub>3</sub> O <sub>8</sub> ) ..	(a)	(a)	232
Russia (years ended Sept. 30).	1,064	(a)	(a)

(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 26 grams, 42 grams, and 60 grams in 1927, 1928 and 1929 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	1927	1928	1929
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Uranium oxide .. ..	Cwt.	890	1,732	2,222
France—				
Uranium oxide .. ..	Cwt.	16	—	—
Other uranium salts ..	Cwt.	2	—	—
Radium and radium products	Lb.	223	62	13
Portugal—				
Uranium minerals .. ..	Cwt.	5,915	2,755	(a)
Belgian Congo—				
Uranium minerals .. ..	Cwt.	(a)	5,274	18,580
Madagascar—				
Uranium minerals .. ..	Cwt.	3	—	(a)

(a) Information not available.

## IMPORTS OF URANIUM MINERALS, ETC.

*(Less Re-exports)*

Importing Country and Description	Unit	1927	1928	1929
BRITISH EMPIRE				
United Kingdom—				
Uranium minerals .. ..	Cwt.	41	<i>(b) 425</i>	145
Canada—				
Radium .. .. .	£	<i>4,131</i>	<i>3,612</i>	<i>8,315</i>
FOREIGN COUNTRIES				
France—				
Uranium oxide .. ..	Cwt.	41	91	82
Other uranium salts .. ..	do.	14	18	6
Radium and radium pro- ducts .. .. .	Lb.	—	11	15
United States—				
Uranium oxide and salts .. ..	Cwt.	604	1,477	2,437
Radium salts and radio- active substances .. ..	£	<i>80,984</i>	<i>116,772</i>	<i>119,227</i>

*(b) Excess of re-exports.*



## VANADIUM

## PRODUCTION OF VANADIUM ORES

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
Northern Rhodesia— ( <i>vanadium content</i> ) ..	121	51	59
South-West Africa ..	6,454	5,033	3,036
FOREIGN COUNTRIES			
Mexico .. .. .	—	—	1
United States ( <i>vanadium content</i> ) .. .. .	(a)	(a)	(a)
Peru ( <i>vanadium content</i> ) ..	706	72	800

(a) Information not available for publication.

## EXPORTS OF VANADIUM

*(Domestic Produce)*

(Long tons)

Exporting Country and Description	1927	1928	1929
BRITISH EMPIRE			
Northern Rhodesia— Ore .. .. .	257	331	532
South-West Africa— Ore .. .. .	1,376	4,143	5,185
FOREIGN COUNTRIES			
Peru— Ore .. .. .	5,915	617	9,441
<i>Vanadium content</i> ..	620	71	799

## IMPORTS OF VANADIUM

*(Less Re-exports)*

(Long tons)

Importing Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES</b>			
France—			
Vanadium oxide .. ..	14	3	8
United States—			
Ore .. .. .	6,199	493	8,714

## ZINC

## PRODUCTION OF ZINC ORE

(In terms of metal)

(Long tons)

Producing Country	1927	1928	1929
BRITISH EMPIRE			
United Kingdom .. ..	1,252	714	851
Nigeria .. .. .	10	60	—
Northern Rhodesia .. ..	—	13,176	22,230
Southern Rhodesia .. ..	—	162	—
Canada (shipments) .. ..	100,608	121,969	138,298
India .. .. .	59,800	64,400	55,400
Australia .. .. .	171,530	147,863	154,562
Total .. .. .	333,000	348,000	371,000
FOREIGN COUNTRIES			
Austria .. .. .	3,446	3,106	3,897
Belgium (ore) .. .. .	13,867	10,393	(a)
Czechoslovakia .. .. .	835	520	(a)
France .. .. .	8,464	9,300	9,400
Germany .. .. .	139,392	142,106	140,217
Greece .. .. .	6,014	4,405	(a)
Italy .. .. .	84,045	83,501	70,000
Jugoslavia .. .. .	320	340	170
Norway .. .. .	105	22	1,423
Poland .. .. .	123,800	112,700	138,000
Portugal .. .. .	150	(a)	(a)
Russia .. .. .	2,300	2,300	(a)
Spain .. .. .	46,800	41,400	58,800
Spitzbergen .. .. .	15	(a)	(a)
Sweden .. .. .	23,987	13,948	(a)
Algeria .. .. .	18,000	14,800	14,700
Egypt .. .. .	301	—	578
French Morocco .. .. .	70	1,565	(a)
Tunis .. .. .	6,900	4,000	3,600
Mexico .. .. .	135,549	139,508	171,301
United States .. .. .	641,554	620,688	652,946
Bolivia (exports) .. .. .	5,547	2,225	1,373
Chile .. .. .	987	491	(a)
Peru .. .. .	17,422	27,457	(a)
China (estimated) .. .. .	10,000	5,000	5,000
French Indo-China .. .. .	21,922	21,147	18,454
Korea (ore) .. .. .	3,626	5,228	5,018
Japan (estimated) .. .. .	10,000	10,000	10,000
New Caledonia .. .. .	450	(a)	(a)
Turkey (estimated) .. .. .	—	2,000	2,000
Total .. .. .	1,310,000	1,260,000	1,350,000
WORLD'S TOTAL	1,640,000	1,610,000	1,720,000

(a) Information not available.

## METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom (b) ..	42,000	55,395	58,298
Northern Rhodesia ..	—	9,597	12,121
Canada .. .. .	65,364	73,005	76,829
Australia .. .. .	49,155	50,223	51,872
Total ..	157,000	188,000	199,000
<b>FOREIGN COUNTRIES</b>			
Belgium .. .. .	195,946	203,042	198,199
Czechoslovakia .. ..	6,224	7,912	(a)
Finland .. .. .	2,921	(a)	(a)
France .. .. .	78,326	95,300	90,200
Germany (b) (d) .. ..	88,418	103,053	103,662
Italy .. .. .	7,251	10,486	15,474
Jugoslavia .. .. .	3,135	4,806	6,406
Netherlands .. .. .	25,853	26,431	25,306
Norway .. .. .	5,401	—	5,429
Poland .. .. .	147,925	159,259	153,430
Russia (years ended Sept.30)	2,230	4,330	4,300
Spain .. .. .	16,270	13,335	11,250
Sweden .. .. .	4,574	5,025	4,643
Mexico .. .. .	6,330	10,366	16,031
United States (c) .. ..	529,032	538,019	557,607
French Indo-China .. ..	1,149	2,838	3,828
Japan .. .. .	17,221	18,815	23,000
Total ..	1,140,000	1,200,000	1,230,000
<b>WORLD'S TOTAL ..</b>	<b>1,300,000</b>	<b>1,390,000</b>	<b>1,430,000</b>

(a) Information not available.

(b) Includes some secondary metal.

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

By grades—	1927	1928	1929
A—High grade ..	134,762	176,496	184,980
B—Intermediate grade	35,822	37,303	24,491
C & D—Select and brass special .. .. .	64,379	66,033	85,860
E—Prime western ..	332,270	301,639	304,551
Total secondary zinc re-covered .. .. .	150,300	160,900	(a)

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

1927.	1928.	1929.
82,800	96,600	100,400

## PRODUCTION OF ZINC SHEETS

(Long tons)

Producing Country	1927	1928	1929
United Kingdom .. ..	3,672	3,235	3,354
Belgium .. .. .	70,617	67,418	80,000
Germany .. .. .	73,819	73,303	71,374
Poland .. .. .	15,168	17,082	(a)
Spain .. .. .	3,656	4,135	(a)
United States .. ..	66,187	65,653	61,012

## PRODUCTION OF ZINC DUST

(Long tons)

Producing Country	1927	1928	1929
<b>FOREIGN COUNTRIES</b>			
Belgium .. .. .	4,773	3,966	(a)
Poland .. .. .	9,192	9,050	(a)
United States—			
Prepared blue powder (sales) .. .. .	7,230	8,189	9,866
Primary zinc recovered as dust .. .. .	2,901	2,382	(a)

## PRODUCTION OF ELECTROLYTIC ZINC

(Long tons)

Producing Country	1927	1928	1929
<b>BRITISH EMPIRE</b>			
Northern Rhodesia ..	—	9,597	12,121
Canada .. .. .	65,364	73,005	76,829
Australia (Tasmania) ..	49,155	50,223	51,872
<b>FOREIGN COUNTRIES</b>			
France .. .. .	8,183	13,482	15,357
Italy .. .. .	2,329	4,790	9,317
United States .. .. .	100,562	143,000	139,497
Norway .. .. .	—	—	5,429
Poland .. .. .	—	603	13,009
Japan .. .. .	779	(a)	(a)

(a) Information not available.

(b) Included with "blue powder".

## EXPORTS OF ZINC

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

Exporting Country and Description	1927	1928	1929
<b>BRITISH EMPIRE</b>			
United Kingdom—			
Sulphides .. .. .	43,626	33,779	17,267
Other ores .. .. .	8,273	4,287	3,544
Spelter .. .. .	5,459	5,002	4,458
Sheets, plates and discs ..	1,964	2,593	1,806
Oxide .. .. .	982	1,243	1,892
Lithopone .. .. .	1,052	1,246	1,762
Northern Rhodesia—			
Ingots .. .. .	(a)	(a)	11,880
Canada—			
Ore .. .. .	22,524	(b)10,049	(b)11,491
Spelter .. .. .	50,188	56,781	60,306
Dross, scrap and ashes ..	2,624	3,100	3,410
Newfoundland (years ended June 30)—			
Concentrates .. .. .	—	—	18,168
British Borneo (Sarawak)—			
Zinc .. .. .	(£216)	(£243)	(£734)
British India—			
Concentrates, etc. .. .. .	67,135	76,031	67,408
British Malaya (including re-exports)—			
Sheets .. .. .	77	81	70
Australia (including re-exports)—			
Ores .. .. .	168	—	52
Concentrates ( <i>Zn</i> content)	243,788	239,150	164,344
Dust ( <i>Zn</i> content) .. .. .	—	767	(£15)
Bars, rods, sheets, etc. ..	35,017	36,605	31,346
New Zealand—			
Spelter and bars .. .. .	48	22	—
<b>FOREIGN COUNTRIES</b>			
Austria—			
Ores .. .. .	3,800	4,691	3,800
Spelter, scrap and alloys ..	1,068	2,083	1,964
Sheets, bars, etc. .. .. .	59	26	54
Zinc-white and zinc-grey ..	13	11	22
Lithopone, etc. .. .. .	17	13	21

EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Belgium-Luxemburg E.U.—			
Ore .. .. .	7,577	45,602	55,115
Spelter .. .. .	89,644	97,221	70,419
Sheets and wire .. .. .	58,385	55,191	61,642
Dust .. .. .	3,502	2,520	2,738
Oxide .. .. .	13,730	14,295	13,360
Lithopone .. .. .	6,991	7,811	9,282
Bulgaria—			
Ore, including nickel ore	3,899	2,640	2,183
Czechoslovakia—			
Ore .. .. .	978	772	12
Spelter, scrap and alloys ..	2,085	2,659	1,993
Sheets and plates .. .. .	846	1,750	2,611
Zinc-white and zinc-grey ..	3,706	3,872	3,490
Lithopone .. .. .	1,243	1,511	1,194
Denmark—			
Spelter and sheets .. .. .	205	286	205
France—			
Ore .. .. .	18,517	10,497	13,071
Spelter, bars and scrap ..	14,768	14,970	13,450
Sheets .. .. .	4,783	5,627	6,029
Oxide .. .. .	2,543	2,287	2,465
Lithopone .. .. .	275	501	1,412
Germany—			
Ore .. .. .	209,484	199,174	177,627
Spelter, dust and scrap ..	33,011	43,192	42,244
Sheets and wire .. .. .	1,001	1,078	1,195
Zinc-white and zinc-grey ..	13,504	18,780	18,961
Lithopone .. .. .	19,814	18,801	20,159
Greece—			
Blende .. .. .	1,476	5,453	413
Calamine .. .. .	11,635	1	443

(a) Information not available.

(b) Zinc content.

EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1927	1928	1929
<b>FOREIGN COUNTRIES (<i>Cont.</i>)</b>			
Hungary—			
Spelter and scrap .. .. .	313	330	50
Sheets .. .. .	279	577	563
Zinc-white and zinc-grey ..	4	18	87
Italy—			
Ore .. .. .	170,257	162,685	159,812
Ashes .. .. .	—	—	533
Spelter, sheets, scrap, etc., and alloyed .. .. .	49	58	1,162
Oxide .. .. .	222	26	25
Lithopone .. .. .	352	469	468
Yugoslavia—			
Ore .. .. .	3,461	1,777	1,721
Spelter, scrap and dust ..	2,179	2,847	4,002
Plates and sheets .. .. .	88	72	345
Netherlands—			
Ore .. .. .	330	63	606
Spelter and scrap .. .. .	27,621	29,435	24,329
Sheets, wire and dust ..	1,518	2,483	2,981
Oxide .. .. .	84	40	152
Norway—			
Ore and ashes .. .. .	754	544	2,775
Spelter .. .. .	5,605	2,087	3,013
Poland—			
Ores and slag .. .. .	282	278	1,382
Spelter, dust and scrap ..	102,725	113,900	127,187
Refined zinc .. .. .	23,266	17,058	15,961
Sheets, tubes, etc. ...	11,984	11,769	(a)
Zinc-white and lithopone ..	2,654	2,917	3,464
Rumania—			
Ore and scrap .. .. .	801	997	(a)
Russia (years ended Sept. 30)—			
Calamine .. .. .	8,056	22,388	31,286
Spain (including re-exports)—			
Blende .. .. .	63,746	68,822	73,820
Calamine .. .. .	14,971	23,458	22,139
Spelter and scrap .. .. .	8,348	5,312	3,418



EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Sweden—			
Ore .. .. .	49,634	39,351	74,001
Spelter, plates and scrap ..	5,657	5,975	5,363
Zinc-white .. .. .	2,151	1,823	1,521
Switzerland—			
Spelter and scrap .. ..	2,847	3,486	3,794
Zinc-white, etc. .. ..	43	24	29
Algeria—			
Ore .. .. .	63,255	31,563	28,692
Spelter, plates and scrap ..	407	437	(a)
Egypt—			
Spelter .. .. .	96	87	60
Morocco (French Zone)—			
Ore and scrap .. ..	209	702	1,968
Morocco (Tangier)—			
Scrap .. .. .	8	9	7
Tunis (including re-exports)—			
Ore .. .. .	35,174	10,549	5,972
Mexico—			
Ores and concentrates ( <i>Zn content</i> )	128,168	148,624	155,270
Spelter .. .. .	6,154	10,366	16,031
United States—			
Ore .. .. .	41,711	4,034	63
Dross .. .. .	3,955	2,811	1,437
Spelter .. .. .	40,725	22,551	12,507
Dust .. .. .	1,211	900	1,121
Sheets, strips, etc. .. ..	3,502	3,861	5,001
Oxide .. .. .	12,941	13,213	15,748
Lithopone .. .. .	1,884	2,969	4,068
Argentina—			
Ore, slag and ash .. ..	766	752	(a)
Bolivia—			
Ores ( <i>Zn content</i> ) .. ..	5,547	2,225	1,373

(a) Information not available.

EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Chile—			
Ore .. .. .	2,323	1,233	96
Bars and sheets .. ..	2	22	—
Peru—			
Ores, etc. ( <i>Zn content</i> ) ..	10,807	6,431	11,573
China—			
Ore .. .. .	5,303	8,166	22,205
French Indo-China (including re-exports)—			
Ore .. .. .	58,141	40,326	36,888
Spelter and scrap .. ..	1,342	3,318	4,219
Korea—			
Ore .. .. .	(a)	4,232	4,234
Turkey—			
Ore .. .. .	27	55	6,464
Spelter and scrap .. ..	78	292	425

(a) Information not available.

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

Importing Country and Description	1927	1928	1929
BRITISH EMPIRE			
United Kingdom—			
Calamine .. .. .	—	1,261	1,300
Sulphides .. .. .	132,607	167,080	128,989
Ashes, etc. .. .. .	1,281	929	2,085
Spelter .. .. .	138,169	131,776	136,021
Sheets, plates and discs ..	17,888	18,218	19,680
Oxide .. .. .	11,847	11,361	12,144
Lithopone .. .. .	20,020	20,708	21,826
Anglo-Egyptian Sudan—			
Zinc-white .. .. .	3	3	(a)
Kenya and Uganda—			
Bars, plates and sheets ..	—	4	15
Northern Rhodesia—			
Spelter .. .. .	18	2	1
Southern Rhodesia—			
Spelter .. .. .	241	202	201
South-West Africa—			
Spelter .. .. .	5	7	6
Union of South Africa (total imports)—			
Spelter .. .. .	2,374	2,334	2,074
Canada—			
Spelter and dust .. .. .	756	1,029	1,403
Sheets, plates, bars, etc. ..	2,639	4,152	4,746
Zinc-white .. .. .	7,440	8,093	8,506
Lithopone .. .. .	7,056	7,271	8,664
British Borneo (Sarawak)—			
Sheets .. .. .	(£1,743)	(£3,014)	(£3,341)
Ceylon—			
Sheets and plates .. .. .	52	73	68
British India (total imports)—			
Spelter .. .. .	4,149	6,883	6,748
Sheets, etc. .. .. .	4,092	2,493	2,338
Zinc-white .. .. .	3,086	2,377	2,358
British Malaya (total imports)	408	359	362
Palestine (total imports)—			
Spelter and sheets .. .. .	158	101	75
Australia—			
Dust .. .. .	(£136)	(£169)	(£562)
Blocks, sheets, scrap, etc. ..	637	620	460
Oxides .. .. .	125	80	137
Lithopone .. .. .	1,225	1,208	1,328
New Zealand—			
Spelter, bars and sheets ..	278	167	208

(a) Information not available.

## IMPORTS OF ZINC (Cont.)

Importing Country and Description.	1927	1928	1929
FOREIGN COUNTRIES			
Austria—			
Spelter, scrap and alloys ..	6,259	7,618	8,107
Sheets, bars, etc. ..	531	1,583	737
Zinc-white and zinc-grey ..	1,605	1,761	1,629
Lithopone, etc. ..	1,694	1,863	1,946
Belgium-Luxemburg E.U.—			
Ore .. .. .	559,320	555,400	600,557
Spelter .. .. .	4,228	7,296	6,787
Sheets and wire .. ..	156	60	55
Dust .. .. .	111	14	22
Lithopone .. .. .	2,464	1,739	1,511
Oxide .. .. .	2,087	2,287	2,110
Bulgaria—			
Bars, sheets and plates ..	709	680	921
Czechoslovakia—			
Ore .. .. .	15,775	19,232	18,569
Spelter, scrap and alloys ..	18,045	18,730	17,185
Sheets and plates .. ..	525	180	304
Zinc-white, zinc-grey, etc.	60	104	142
Denmark—			
Spelter .. .. .	1,778	2,145	2,191
Plates .. .. .	3,250	3,616	4,085
Zinc-white .. .. .	1,989	2,214	2,320
Lithopone .. .. .	810	966	1,134
Estonia—			
Spelter, plates, dust and scrap	34	55	80
Zinc-white .. .. .	178	189	178
Finland—			
Spelter and sheets .. ..	426	455	474
Zinc-white .. .. .	1,616	1,814	1,675
Lithopone, etc. .. ..	260	243	316
France—			
Ore .. .. .	211,076	210,630	213,105
Spelter, bars and scrap ..	45,553	45,216	36,526
Sheets .. .. .	689	477	570
Oxide .. .. .	5,663	1,179	2,078
Lithopone .. .. .	2,254	353	189
Germany—			
Ores .. .. .	171,473	160,022	176,042
Spelter, dust and scrap ..	145,461	141,956	135,096
Sheets and wire .. ..	12,101	7,269	7,282
Zinc-white and zinc-grey ..	1,705	1,312	2,818
Lithopone .. .. .	4,113	3,521	2,568

IMPORTS OF ZINC (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Greece—			
Spelter .. .. .	441	375	469
Hungary—			
Spelter, dust, and scrap ..	5,239	5,701	5,406
Sheets .. .. .	42	37	45
Zinc-white and zinc-grey ..	615	617	405
Lithopone .. .. .	1,185	1,574	1,255
Italy—			
Ore and ashes .. .. .	1,555	190	8
Spelter, scrap and alloyed..	9,411	10,343	8,191
Sheets, wire, etc., and alloyed	4,413	6,161	6,283
Oxide .. .. .	1,405	1,010	1,237
Lithopone .. .. .	2,565	1,852	2,058
Jugoslavia—			
Ore .. .. .	14,639	10,386	19,137
Spelter and scrap .. .. .	51	163	30
Bars, sheets, wire, etc. ..	136	161	57
Zinc-white, lithopone, etc.	1,219	1,469	1,333
Latvia—			
Spelter, sheets and scrap ..	199	285	352
Zinc-white .. .. .	131	173	171
Lithopone .. .. .	253	255	339
Lithuania—			
Spelter, sheets and scrap ..	45	45	74
Netherlands—			
Ore .. .. .	84,002	95,147	77,186
Spelter and scrap .. .. .	4,521	5,771	5,383
Sheets, wire and dust .. ..	8,917	9,375	9,077
Zinc-white .. .. .	4,037	4,025	3,891
Lithopone .. .. .	1,328	2,517	2,012
Oxide .. .. .	8,150	6,923	7,753
Norway—			
Ore and ashes .. .. .	10,923	1,918	18,656
Spelter, bars, plates, etc. ..	1,665	2,095	2,450
Zinc-white .. .. .	2,236	2,292	(a)
Poland—			
Ores and slag .. .. .	193,549	188,095	193,628
Spelter, dust and scrap .. ..	94	123	628
Refined zinc, sheets, etc. ..	249	285	(a)
Zinc-white and lithopone ..	120	175	154
Portugal—			
Sheets, etc. .. .. .	520	561	642
Rumania—			
Spelter and scrap .. .. .	3,472	(a)	(a)
Sheets and plates .. .. .	839	(a)	(a)
Zinc oxides .. .. .	1,225	(a)	(a)
Lithopone .. .. .	880	(a)	(a)

(a) Information not available.

IMPORTS OF ZINC (*Cont.*)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES ( <i>Cont.</i> )			
Russia (years ended Sept. 30)—			
Spelter, sheets and dust ..	29,357	30,503	34,163
Spain (total imports)—			
Calamine .. .. .	2,014	—	—
Spelter and scrap ..	985	1,347	909
Plates, nails and wire ..	428	497	187
Sweden—			
Ore .. .. .	6,149	6,081	7,073
Spelter and scrap ..	6,796	7,090	8,756
Plates .. .. .	2,364	2,330	2,620
Zinc-white .. .. .	4,967	5,330	5,631
Lithopone and barytes ..	1,772	1,915	1,942
Switzerland—			
Spelter and scrap ..	5,386	6,417	7,415
Bars, sheets and pipes ..	1,468	1,422	1,631
Zinc-white, etc. ..	1,365	1,630	1,670
Lithopone .. .. .	1,796	1,895	2,251
Algeria—			
Spelter, bars, sheets and scrap	910	(a)	(a)
Angola—			
Spelter, etc. . . . .	57	29	(a)
Belgian Congo—			
Spelter, etc. . . . .	4	35	16
Egypt—			
Spelter and sheets ..	408	402	300
Oxide .. .. .	1,281	1,015	1,015
Morocco—			
Spelter, sheets and bars ..	144	291	167
Lithopone .. .. .	(a)	49	78
Réunion—			
Zinc .. .. .	4	2	1
Tunis—			
Sheets .. .. .	259	223	232
Oxide .. .. .	87	104	138
Costa Rica (total imports)—			
Spelter .. .. .	3,930	(a)	(a)
Oxide .. .. .	6	(a)	(a)
Mexico—			
Spelter and scrap ..	164	1,407	(a)
Sheets and scrap ..	98	403	(a)
United States—			
Ore ( <i>Zn content</i> ) ..	8,494	1,522	12,868
Spelter, dust and scrap ..	1	104	284
Pigments (total imports) ..	8,387	10,125	8,740
Cuba (total imports)—			
Spelter and sheets ..	309	89	(a)

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1927	1928	1929
FOREIGN COUNTRIES (Cont.)			
Argentina—			
Spelter and bars .. ..	7,754	10,580	(a)
Sheets, etc. .. ..	3,425	2,884	(a)
Oxide .. ..	753	690	(a)
Brazil (total imports)—			
Bars, sheets and plates ..	1,084	1,326	1,214
Zinc-white .. ..	4,341	5,314	4,916
Chile—			
Spelter, bars and sheets ..	1,946	1,793	2,474
Zinc-white, etc. .. ..	320	350	419
Colombia—			
Zinc-white .. ..	368	(a)	(a)
Peru—			
Spelter, bars, sheets, etc.	64	80	59
Uruguay—			
Sheets .. ..	164	147	137
Venezuela—			
Spelter .. ..	15	17	(a)
Oxide .. ..	222	266	(a)
China—			
Spelter and dust .. ..	1,960	1,218	945
Sheets and plates .. ..	1,207	1,563	1,089
Zinc-white .. ..	681	752	861
Dutch East Indies—			
Spelter and alloys .. ..	721	692	(a)
Zinc-white .. ..	1,610	1,834	(a)
French Indo-China (total imports)—			
Sheets .. ..	1,292	1,743	2,012
Oxide .. ..	152	133	88
Japan (total imports)—			
Ore .. ..	5,573	20,638	28,042
Spelter .. ..	26,559	35,194	26,683
Sheets, etc .. ..	4,580	5,329	6,079
Philippine Islands—			
Spelter, bars and sheets ..	172	83	106
Oxide .. ..	660	572	766
Siam (total imports)—			
Spelter .. ..	357	426	338
Syria—			
Spelter .. ..	207	(a)	(a)
Turkey—			
Ore .. ..	10	—	1
Spelter and scrap .. ..	—	146	1
Bars, tubes and wire .. ..	989	791	(b)855

(a) Information not available.

(b) First nine months only.

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