

IMPERIAL INSTITUTE

THE MINERAL INDUSTRY OF
THE BRITISH EMPIRE
AND
FOREIGN COUNTRIES

STATISTICAL SUMMARY
(Production, Imports and Exports)
1929-1931

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THE BRITISH EMPIRE

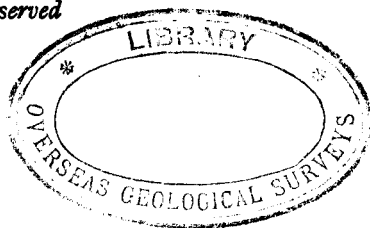
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CONTENTS

	PAGE
Introductory Note	4
Abrasives	5
Aluminium	15
Antimony	24
Arsenic	29
Asbestos	34
Barium Minerals	41
Bismuth	47
Borates	50
Cadmium	56
China Clay	58
Chrome Ore and Chromium	62
Coal, Coke and By-Products	68
Cobalt	103
Copper	106
Diamonds	122
Diatomaceous Earth	125
Felspar	127
Fluorspar	129
Fuller's Earth	131
Gold	132
Graphite	145
Gypsum	149
Iron and Steel	155
Lead	186
Magnesite	202
Manganese	211
Mica	217
Molybdenum	220
Monazite	222
Nickel	226
Nitrogen Compounds	232
Petroleum and Allied Products	249
Phosphates	285
Platinum	295
Potash Minerals	300
Pyrites	312
Quicksilver	316
Salt	323
Silver	335
Strontium Minerals	343
Sulphur	345
Talc	351
Tin	354
Titanium Minerals	364
Tungsten	366
Uranium Minerals	370
Vanadium	372
Zinc	374
List of Statistical Publications	389

INTRODUCTORY NOTE

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

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

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

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	1929	1930	1931
BRITISH EMPIRE.			
Kenya—			
Corundum	(130 lb.)	(120 lb.)	—
Southern Rhodesia—			
Corundum	20	9	—
Union of South Africa—			
Corundum	3,249	2,399	1,122
Canada—			
Grindstones	927	210	} 306
Pulpstones	673	512	
Sharpening stones	138	20	
India—			
Corundum	34	30	—
Garnet sand	—	7	—
New Zealand—			
Pumice (b)	2,242	2,559	2,321
FOREIGN COUNTRIES.			
Belgium—			
Grindstones (number)	141,700	141,020	(a)
France—			
Millstones	32,570	(a)	(a)
Sharpening stones	3,320	(a)	(a)
Germany (Bavaria)—			
Emery	388	188	217
Whetstones	9	13	8
Greece—			
Emery	10,363	12,399	(a)
Millstones (number)	1,893	—	(a)
Italy—			
Pumice	52,387	50,524	47,842
Grindstones	199	276	197
Sharpening stones	1,585	846	(a)
Whetstones	792	722	702
Jugoslavia—			
Millstones (number)	999	1,041	(a)

(a) Information not available.

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

PRODUCTION OF NATURAL ABRASIVES (Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Millstones, etc.	81	39	(a)
Madagascar—			
Corundum	64	92	9
United States—			
Emery	825	496	457
Garnet	5,322	4,467	2,630
Pumice	59,833	50,753	55,954
Tripoli	33,938	28,963	23,823
Millstones, chasers, etc.	(£6,466)	(£3,641)	(£1,444)
Grindstones	18,813	12,999	6,245
Pulpstones	5,951	3,697	1,545
Oilstones, whetstones, etc.	748	581	330
Turkey—			
Emery	7,483	3,117	3,433
Millstones (<i>number</i>)	2,740	3,103	5,201

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

	1929	1930	1931
Silicon carbide	27,062	19,650	7,315
Aluminium oxide	64,834	41,487	22,384
Metallic abrasives	21,240	14,668	9,915

(a) Information not available.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Natural abrasives	4,552	3,124	} 2,756
Artificial abrasives	272	291	
Oil stones	2	3	
Grinding wheels of—			
Artificial corundum, etc. ..	34	30	15
Carborundum	423	226	149
Emery	183	126	85
Other hard abrasives	41	47	16
Grindstones, millstones and whetstones.. ..	7,672	6,249	4,890
Union of South Africa—			
Corundum	3,355	2,492	680
Canada—			
Natural abrasives, including diatomaceous earth.. ..	370	333	642
Artificial abrasives	70,170	50,392	38,000
Artificial abrasive wheels, etc.	(£10,968)	(£7,491)	(£4,099)
Grindstones	(£7,498)	(£2,397)	(£2,219)
New Zealand—			
Pumice	2,442	2,549	2,321
FOREIGN COUNTRIES			
Austria—			
Emery	69	67	60
Pumice	116	79	54
Millstones	72	60	151
Grindstones, natural	231	128	118
do. artificial	166	120	93
Belgium-Luxemburg E. U.—			
Millstones and grindstones ..	372	340	132
Other abrasives	201	108	134
Bulgaria—			
Grindstones, etc.	102	96	108
Czechoslovakia—			
Carborundum	50	74	215
Emery and pumice	11	9	6
Grindstones, etc., natural ..	275	189	147
do. carborundum	367	314	294
do. emery, etc... ..	622	495	385
Other abrasives	13	25	4

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France—			
Corundum and emery.. ..	5,615	2,347	1,504
Pumice	212	314	263
Millstones and grindstones ..	7,320	5,558	3,482
Whetstones	446	337	298
Carborundum	381	135	402
Other artificial abrasives ..	868	603	841
Germany—			
Emery	1,371	979	790
Pumice, etc.	150,643	197,565	178,341
Carborundum	2,018	5,087	5,687
Other abrasives.. .. .	10,558	10,179	9,116
Greece—			
Emery	12,964	11,712	7,610
Hungary—			
Emery	1	—	—
Millstones	54	35	19
Grindstones	14	10	4
Italy—			
Emery and corundum	21	12	8
Pumice	45,255	40,180	35,117
Whetstones, natural	293	276	269
Grindstones, natural	14	38	28
Millstones, natural	211	118	84
do. artificial	15	3	10
Artificial abrasives	3	4	4
Jugoslavia—			
Millstones	211	140	166
Grindstones, natural	969	571	342
do. artificial	14	10	7
Netherlands—			
Emery	2,447	2,062	1,806
Poland—			
Grindstones and millstones ..	69	84	176
Sweden—			
Emery	9	10	5
Other natural abrasives	224	184	104
Carborundum, etc.	375	313	382
Grindstones, millstones, etc. ..	973	900	554
Switzerland—			
Carborundum, emery, etc., crude	16	37	18
do. do. ground	967	1,256	841
Grindstones	76	37	10

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Madagascar—			
Corundum	41	73	1
United States—			
Wheels of emery and corundum	371	214	128
Grindstones	3,383	2,230	1,074
Other natural abrasives ..	4,314	3,668	3,114
Crude artificial abrasives ..	7,208	6,740	5,907
Artificial abrasive wheels ..	2,892	2,138	1,471
Turkey—			
Emery and carborundum ..	667	517	152
Millstones and grindstones ..	81	190	164
Whetstones, pumice, etc. ..	51	1	—

IMPORTS OF ABRASIVES

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom —			
Emery	8,997	7,816	5,354
Artificial corundum	2,521	918	2,241
Carborundum	2,165	2,431	1,413
Other hard abrasives	12,157	17,373	10,272
Oil stones	6	9	2
Grinding wheels of—			
Artificial corundum, etc.	565	455	231
Carborundum	200	206	157
Emery	114	87	84
Other hard abrasives	34	33	16
Grindstones, millstones and whetstones	378	403	340
Irish Free State—			
Manufactured abrasives	(£20,465)	(£31,868)	(£14,776)
Kenya and Uganda—			
Grindstones	6	9	3
Tanganyika—			
Grindstones	5	8	4
Union of South Africa—			
Emery	9	6	8
Pumice	59	75	70
Other abrasives (<i>£ South African</i>)	(£1,637)	(£3,192)	(£1,436)
Emery and other wheels (<i>do.</i>)	(£10,667)	(£9,253)	(£9,157)
Grindstones, millstones, etc. (<i>£ South African</i>)	(£4,814)	(£2,372)	(£1,570)
Canada—			
Pumice, etc.	(£7,348)	(£7,409)	(£7,303)
Emery, ground	(£11,125)	(£7,668)	(£5,565)
Artificial abrasives, ground	(£51,442)	(£42,094)	(£38,713)
Carborundum, partly manu- factured	(£44,855)	(£11,852)	—
Emery or carborundum manu- factures	(£47,581)	(£57,144)	(£42,034)
Grindstones	(£91,637)	(£49,593)	(£25,926)
Ceylon—			
Grindstones	(£1,774)	(£1,142)	(£1,102)
Other abrasives	550	165	176
Australia—			
Abrasives (<i>£ Australian</i>)	(£21,838)	(£16,081)	(£10,393)

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
New Zealand—			
Pumice	11	5	3
Grindstones, etc. (<i>£ New Zealand</i>)	(£7,796)	(£4,577)	(£3,438)
FOREIGN COUNTRIES			
Austria—			
Emery	511	449	402
Pumice	540	520	367
Millstones	533	460	394
Grindstones, natural	2,605	1,739	1,101
do. artificial	357	275	209
Belgium-Luxemburg E.U.—			
Millstones and grindstones	1,868	1,392	1,455
Other abrasives	4,392	3,750	7,582
Bulgaria—			
Grindstones, etc.	858	339	296
Czechoslovakia—			
Emery	530	464	365
Pumice	46	18	18
Carborundum	591	572	575
Grindstones, etc.—natural	2,276	1,800	1,080
do. carborundum	50	34	21
do. emery, etc.	255	161	154
Other abrasives	5	4	19
Denmark—			
Emery, etc.	114	134	112
Pumice	196	204	209
Millstones and grindstones	592	521	374
Estonia—			
Grindstones, etc.—natural	408	448	454
do. artificial	18	15	12
Millstones	55	52	17
Finland—			
Emery	175	118	88
Pumice	61	107	54
Other abrasives	21	22	10
France—			
Corundum and emery	4,130	3,405	2,107
Pumice	20,644	18,946	17,042
Millstones and grindstones	434	212	284
Whetstones	452	730	364
Carborundum	952	920	651
Other artificial abrasives	1,528	596	585

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Germany—			
Emery	3,909	3,519	1,925
Pumice, etc.	6,924	5,759	4,526
Carborundum	3,870	3,166	2,535
Other abrasives	152	77	96
Hungary—			
Emery	83	46	55
Millstones	72	67	47
Grindstones	1,034	970	469
Italy—			
Emery and corundum	761	870	1,098
Pumice	39	1	2
Artificial abrasives	555	478	416
Whetstones, natural	128	130	142
Grindstones, natural	1,218	1,134	665
Millstones, natural	284	165	148
do artificial	176	214	199
Jugoslavia—			
Millstones	149	88	50
Grindstones, natural	95	168	69
do. artificial	189	147	124
Other abrasives	397	218	169
Latvia—			
Emery	30	22	13
Pumice	22	28	15
Grindstones, etc.	334	302	218
Lithuania—			
Emery, etc.	44	54	54
Netherlands—			
Emery	3,070	2,940	1,318
Norway—			
Emery grains	114	324	(a)
Poland—			
Grindstones	488	461	233
Millstones	304	172	109
Other abrasives	600	549	471
Portugal—			
Emery	66	73	86
Russia—			
Pumice	42	160	—
Emery and corundum, ground	20	90	7
Millstones, natural	157	80	122
do. artificial	418	760	343
Other abrasives, natural	65	59	—
do. artificial	222	1,970	2,980

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Spain (total imports)—			
Emery	179	86	59
Carborundum	4	15	10
Sweden—			
Emery	631	482	515
Rottenstone	232	} 843	1,286
Other natural abrasives	874		
Carborundum, etc.	125	180	208
Grindstones, millstones, etc.	1,963	1,840	1,413
Switzerland—			
Carborundum, emery, etc., crude	209	251	88
do. do. ground	351	325	216
Millstones	124	110	138
Grindstones	841	883	723
Whetstones	46	48	41
Algeria—			
Emery	6	20	(a)
Pumice	87	89	(a)
Grindstones and millstones	312	274	(a)
Morocco—			
Millstones and grindstones	98	73	88
Togoland—			
Abrasives	11	(a)	(a)
Tunis—			
Emery and pumice	50	37	137
Millstones	276	36	63
Cuba (total imports)—			
Grindstones	1,261	(a)	(a)
United States—			
Corundum, crude (total imports)	3,378	2,794	639
Emery, crude (total imports)	5,717	3,796	2,103
Corundum and emery, ground	389	267	56
Pumice	8,633	5,810	5,846
Tripoli, etc.	2,911	4,858	3,650
Grindstones	1,680	765	571
Crude artificial abrasives	67,653	50,151	35,078

(a) Information not available.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Argentina—			
Emery	408	313	188
Pumice	98	101	58
Grindstones	969	652	322
Oil stones	33	32	9
Brazil (total imports)—			
Emery and glass powder ..	108	58	66
Chile—			
Emery, pumice, etc.	33	64	14
Colombia—			
Emery and pumice	10	5	(a)
Grindstones	20	6	(a)
Ecuador—			
Millstones and grindstones ..	69	50	31
Other abrasives	7	6	7
Peru—			
Emery and pumice	10	8	8
Grindstones	16	6	4
Venezuela—			
Emery and pumice	14	(a)	(a)
China—			
Corundum	44	33	11
French Indo-China—			
Emery and corundum, ground	317	210	1,279
Pumice	4	6	1
Grindstones and millstones ..	86	62	237
Japan (total imports)—			
Abrasives	2,803	2,613	3,226
Grindstones, artificial	91	64	37
Netherlands East Indies—			
Emery	50	73	(a)
Syria and Lebanon—			
Emery	10	34	12
Turkey—			
Emery and carborundum, crude	7	31	6
Millstones and grindstones ..	660	172	147
Whetstones, pumice, etc. ..	123	42	22

(a) Information not available.

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

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Northern Ireland	2,322	2,037	3,340
British Guiana—			
60% or over alumina ..	184,425	120,083	124,963
30-50% alumina ..	32,227	26,913	32,115
India	9,044	2,514	—
Australia—			
New South Wales ..	—	—	196
Victoria	546	(a)	(a)
Total ..	229,000	152,000	161,000
FOREIGN COUNTRIES			
France	655,824	598,835	342,452
Germany	7,141	1,369	—
Greece	6,181	2,244	(a)
Hungary	383,006	31,195	84,379
Italy	189,729	158,641	66,305
Jugoslavia	101,733	93,204	61,039
Roumania	911	667	(a)
Russia (years ended Sept. 30)	(a)	12,000	(a)
Spain	960	318	(a)
United States	365,777	330,612	195,895
Dutch Guiana	206,681	260,377	170,419
Total ..	1,920,000	1,490,000	940,000
WORLD'S TOTAL ..	2,150,000	1,640,000	1,100,000

Information regarding the production in Austria is not available.

(a) Information not available.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1929	29,310
1930	35,671
1931	17,427

ESTIMATED PRODUCTION OF ALUMINIUM
(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	8,000	13,000	14,000
Canada	38,000	32,000	28,000
Total ..	46,000	45,000	42,000
FOREIGN COUNTRIES			
Austria	4,000	3,000	3,000
France	28,624	24,200	19,000
Germany	32,000	30,200	27,000
Italy (c)	7,257	7,842	10,931
Norway (c)	28,682	26,925	21,082
Russia	(a)	(b)200	(a)
Spain	(c) 1,000	(c) 1,100	1,000
Switzerland	19,000	20,800	13,000
United States (c) (d) ..	100,450	102,248	79,261
Total ..	221,000	217,000	175,000
WORLD'S TOTAL ..	267,000	262,000	217,000

(a) Information not available.

(b) Year ended April 30, 1931.

(c) Official figures.

(d) Secondary metal was recovered as follows:—1929: 43,214 long tons; 1930: 34,464 long tons; 1931: 27,054 long tons.

EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Alumina	20,586	13,654	5,847
Ingots, etc., alloy and scrap ..	5,638	4,124	3,987
Sheets, tubes, wire, etc. ..	3,774	3,744	2,016
Aluminium sulphates	14,654	11,052	11,956

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
Canada—			
Blocks, bars, scrap, etc. ..	34,101	20,516	11,281
British Guiana—			
Bauxite	182,692	119,616	125,095
British India—			
Bauxite	3,478	2,686	828
British Malaya (including re- exports)—			
Aluminium sulphate	3,379	2,627	6,473
Australia (including re-exports)—			
Aluminium (£ Australian) ..	(£449)	(£1,203)	(£980)
Aluminium sulphates	6	3	—
FOREIGN COUNTRIES			
Austria—			
Cryolite	8	11	21
Crude, scrap and alloys	4,076	2,994	4,421
Sheets, rods, wire, etc.	18	7	3
Foil	18	14	11
Aluminium sulphates	1,202	841	274
Belgium-Luxemburg E.U.—			
Bauxite, etc.	2	33	29
Alumina	4	3	1
Aluminium hydrates	—	16	43
Crude and scrap	1,036	525	383
Sheets, wire, etc.	69	28	139
Aluminium sulphates	5,458	7,586	11,509
Czechoslovakia—			
Cryolite	9	5	12
Denmark—			
Refined cryolite	17,604	15,604	10,897
France—			
Bauxite	236,617	254,589	165,202
Alumina	29,624	20,835	17,613
Aluminium hydrates	4,362	4,720	6,215
Ingots and scrap	2,155	3,018	245
Sheets, wire, etc.	2,013	2,031	2,248
Aluminium sulphates	22,754	21,065	12,733
Germany—			
Bauxite and cryolite	114	123	544
Crude, scrap and alloys	4,050	5,526	4,588
Sheets, wire, castings, etc. ..	4,592	4,725	4,932
Foil	3,270	3,491	4,668
Aluminium sulphates, etc., in- cluding refined bauxite	93,386	94,157	66,639
Hungary—			
Bauxite	98,961	82,590	74,705
Crude, scrap and alloys	38	33	27

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Italy—			
Crude, scrap and alloys ..	119	634	2,850
Sheets, tubes, etc. and alloys ..	62	64	56
Aluminium sulphates	42	84	51
Yugoslavia—			
Bauxite	66,198	59,634	47,594
Scrap	3	2	—
Netherlands—			
Crude and scrap	371	409	400
Foil	23	51	31
Aluminium sulphates	(a)	274	—
Norway—			
Ingots and scrap	29,230	23,487	23,966
Bars, sheets, tubes and wire ..	623	487	1,070
Poland—			
Crude and sheets	12	9	52
Russia—			
Bauxite	193	14	—
Spain (including re-exports)—			
Alumina	27	34	29
Ingots and scrap	290	30	307
Sweden—			
Crude, sheets and strips	30	33	99
Aluminium sulphates	11,435	12,505	10,320
Switzerland—			
Alumina, etc.	5	4	29
Blocks, ingots, etc., and scrap ..	13,002	9,087	8,793
do. (alloys)	2,270	1,642	1,348
Bars, sheets, tubes and wire ..	1,314	1,210	822
do. (alloys)	10	52	94
Algeria—			
Ingots	65	48	(a)
Greenland—			
Cryolite	29,300	35,671	17,427
United States—			
Bauxite, etc.	133,551	104,504	88,370
Ingots, scrap and alloys	274	271	674
Plates, sheets, etc.	7,330	7,465	1,424
Aluminium sulphates	23,739	22,549	24,703
Dutch Guiana—			
Bauxite	206,681	258,861	187,586
China—			
Aluminium sulphates	3,109	2,266	1,776
French Indo-China—			
Ingots, bars, etc.	7	21	17
Japan—			
Plates and sheets	405	684	207
Turkey—			
Ingots, sheets and alloys	11	24	1

(a) Information not available.

IMPORTS OF ALUMINIUM, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Bauxite	121,164	140,027	87,628
Cryolite	1,714	2,621	159
Alumina	909	1,082	1,705
Ingots, etc., alloy and scrap ..	22,289	18,310	16,916
Sheets, tubes, wire, etc. ..	6,440	5,420	5,248
Aluminium sulphates	22,959	23,877	23,804
Kenya and Uganda—			
Sheets and wire	60	91	166
Northern Rhodesia—			
Bars, etc.	68	60	63
Southern Rhodesia—			
Ingots and bars	71	440	22
Union of South Africa—			
Ingots, bars, sheet and foil ..	505	142	214
Aluminium sulphates	133	188	142
Canada—			
Bauxite	126,999	95,360	84,651
Cryolite	2,144	2,123	1,202
Alumina	406	62	893
Ingots, rods, sheets, etc. ..	758	1,832	992
Leaf and foil	(£40,295)	(£47,911)	(£27,036)
Aluminium sulphates	24,878	23,013	21,448
Newfoundland (years ended June 30)—			
Aluminium sulphates	(£2,905)	(£8,846)	(£5,856)
British India (total imports)—			
Ingots, blocks, bars, etc. ..	51	49	2
Sheets and circles	8,057	7,258	2,195
Aluminium sulphates	6,095	4,668	3,897
British Malaya (total imports)—			
Aluminium sulphates	4,879	3,116	3,155
Australia—			
Cryolite	174	110	153
Pigs, ingots, blocks, etc. ..	679	253	37
Sheets, pipes, tubes, rods, etc.	631	848	336
Aluminium sulphates	92	217	71
New Zealand—			
Bars, sheets, tubes, wire, etc..	45	37	25
Aluminium sulphates	32	32	(a)

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Austria—			
Bauxite	396	621	589
Cryolite	389	647	110
Alumina	8,002	8,308	5,590
Aluminium hydrates	1,878	1,485	1,287
Crude, scrap and alloys	845	369	348
Sheets, rods, wire, etc.	517	453	550
Foil	52	50	67
Aluminium sulphates	190	358	691
Belgium-Luxemburg E.U.—			
Bauxite, etc.	2,457	2,456	2,563
Alumina	2	6	4
Aluminium hydrates	2,789	4,222	4,161
Crude and scrap	3,062	1,448	2,522
Sheets, wire, etc.	647	604	452
Aluminium sulphates	1,294	1,834	1,158
Bulgaria—			
Aluminium sulphates	326	198	542
Czechoslovakia—			
Cryolite	510	315	279
Sheets and plates	408	207	134
Denmark—			
Crude cryolite	21,169	27,346	9,342
Crude and scrap	145	221	261
Leaf	80	114	120
Aluminium sulphates	1,368	1,479	1,502
Estonia—			
Crude, sheets, etc.	5	4	5
Aluminium sulphates	1,135	997	782
Finland—			
Crude and scrap	26	21	17
Plates and sheets	113	110	75
Aluminium sulphates	5,616	5,761	5,244
France—			
Bauxite	—	53	3
Alumina	2	2	2
Aluminium hydrates	2	6	5
Ingots and scrap	242	330	174
Sheets, wire, etc.	178	296	571
Aluminium sulphates	73	48	48
Germany—			
Bauxite and cryolite	380,860	295,634	207,657
Crude, scrap and alloys	14,021	9,536	4,597
Sheets, wire, etc.	422	413	208
Aluminium sulphates, etc., including refined bauxite	2,889	87	41

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Greece—			
Aluminium	46	49	65
Hungary—			
Crude, scrap and alloys ..	455	344	305
Bars, sheets and wire ..	51	32	22
Foil	27	19	7
Aluminium sulphates ..	1,143	749	200
Italy—			
Alumina	10,789	17,419	1,720
Aluminium hydrates ..	686	891	737
Crude, scrap and alloys ..	2,386	958	1,062
Sheets, tubes, powder and alloys	861	579	457
Aluminium sulphates ..	6,348	5,047	3,945
Jugoslavia—			
Bauxite	—	1,170	6,464
Crude aluminium ..	22	24	24
Sheets, pipes and wire ..	57	80	80
Aluminium sulphates ..	299	203	246
Latvia—			
Ingots, sheets, scrap, etc. ..	121	90	64
Aluminium sulphates ..	1,191	1,040	555
Netherlands—			
Crude and scrap	1,166	965	671
Foil	258	146	417
Aluminium sulphates ..	(a)	5,611	6,483
Norway—			
Bauxite	16,376	18,906	16,965
Cryolite	2,265	2,028	1,497
Alumina	51,301	48,725	31,056
Crude aluminium	4	7	(a)
Bars, sheets, etc.	255	193	(a)
Aluminium sulphates ..	4,547	4,466	2,740
Poland—			
Bauxite	50	546	1,928
Crude and scrap	706	439	293
Sheets and wire	410	361	288
Sulphates	144	107	91
Portugal—			
Aluminium and alloys ..	92	130	117
Aluminium sulphates ..	432	428	446

(a) Information not available.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Roumania—			
Crude and scrap	(a)	30	(a)
Sheets and wire	(a)	26	(a)
Aluminium sulphates	(a)	215	(a)
Russia—			
Ingots, sheets, etc.	6,456	9,858	20,048
Spain (total imports)—			
Alumina	3,011	4,008	3,525
Ingots and scrap	67	153	57
Bars, sheets, tubes and wire	114	67	42
Aluminium sulphates	180	190	141
Sweden—			
Crude	1,585	2,113	1,885
Sheets and strips	367	460	345
Aluminium sulphates	794	1,686	1,471
Switzerland—			
Alumina, etc.	41,534	34,731	23,413
Blocks, ingots, etc., and scrap	501	1,935	489
do. (alloys)	58	53	30
Bars, sheets, tubes and wire	41	54	18
do. (alloys)	38	31	18
Aluminium sulphates	271	255	206
Egypt—			
Crude, sheets, scrap, etc.	(a)	(c)10	15
Aluminium sulphates	3,014	2,617	1,825
French West Africa—			
Aluminium	14	12	—
Tunis—			
Aluminium sulphates	71	63	73
United States—			
Bauxite	380,812	415,058	306,490
Cryolite	7,778	8,315	7,908
Crude, scrap, etc. (b)	21,614	10,937	6,028
Sheets, bars, etc. (b)	10	22	75
Refined bauxite	128	114	146
Aluminium sulphates	1,495	1,374	874
Argentina—			
Ingots, sheets and wire	266	424	274
Aluminium sulphates	5,060	6,176	6,565
Brazil (total imports)—			
Bars, sheets and wire	773	512	409
Chile—			
Bars and sheets	47	50	50
Aluminium sulphates	141	461	42

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Colombia—			
Ingots, bars, etc.	39	5	(a)
Aluminium sulphates	330	239	(a)
Ecuador—			
Bars, sheets, tubes and wire	—	1	1
Aluminium sulphates	23	14	18
Peru—			
Aluminium sulphates	334	312	423
China—			
Sheets	441	435	425
Formosa—			
Aluminium sulphates	175	178	(a)
French Indo-China—			
Crude	88	50	34
Aluminium sulphates	549	779	564
Iraq (years ended Mar. 31)—			
Aluminium sulphates	12	56	48
Japan (total imports)—			
Cryolite	1,015	2,949	2,787
Ingots, blocks, etc.	11,706	10,792	2,744
Netherlands East Indies—			
Ingots, sheets, wire and alloys	848	722	(a)
Aluminium sulphates	7,803	5,449	(a)
Syria and Lebanon—			
Aluminium sulphates	69	100	139
Turkey—			
Bars, sheets, wire and alloys	16	18	34
Aluminium sulphates	230	156	185

(a) Information not available.

(b) Total imports.

(c) March–December only.

ANTIMONY

PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Southern Rhodesia ..	—	34	—
Canada (ore)	—	—	22
India (ore)	77	3	—
Australia—			
New South Wales ..	25	67	65
Victoria	2	(a)	(a)
FOREIGN COUNTRIES			
Austria	700	—	—
Czechoslovakia	684	378	556
France	1,909	1,220	700
Greece	67	66	(a)
Italy	378	406	377
Jugoslavia	156	2	40
Mexico	2,667	2,984	5,357
Bolivia (exports)	3,719	1,141	1,327
Peru	106	60	(a)
China	18,457	16,917	18,320
Turkey	11	34	41
WORLD'S TOTAL	29,000	23,000	27,000

(a) Information not available.

EXPORTS OF ANTIMONY, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Regulus	836	534	238
Southern Rhodesia—			
Ore	63	69	27
Australia (including re-exports)—			
Ores (<i>Sb content</i>) (b)	—	—	597
Regulus and alloys (<i>£ Australian</i>)	(£475)	(£500)	(£650)
FOREIGN COUNTRIES			
Austria—			
Ore	1,276	21	—
Regulus	7	20	14
Belgium-Luxemburg E.U.—			
Ore	30	144	112
Regulus	1,130	714	1,268
Czechoslovakia—			
Regulus	311	417	325
Compounds	1	22	5
France—			
Ore	2	396	5
Crude and regulus	66	94	43
Oxide and sulphide	901	374	303
Germany—			
Ore, including arsenical ores ..	189	150	74
Regulus and scrap	200	146	156
Italy—			
Regulus	2	2	2
Jugoslavia—			
Ore	109	—	131
Netherlands—			
Regulus	9	3	13
Poland—			
Ore and regulus	—	—	1
Portugal—			
Ore	25	—	—

EXPORTS OF ANTIMONY, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Spain (including re-exports)—			
Regulus	—	—	64
Sweden—			
Ore	119	175	141
Algeria—			
Ore	305	—	753
Mexico—			
Ore (<i>Sb content</i>)	298	} 2,916	5,020
Pig lead (<i>Sb content</i>)	404		
Antimonial silver (<i>Sb content</i>)	996		
Refined antimony (<i>Sb content</i>)	966		
Bolivia—			
Ore (<i>Sb content</i>)	3,719	1,141	1,327
Peru—			
Ore (<i>Sb content</i>)	109	58	29
China—			
Crude	3,835	2,290	1,117
Regulus	19,746	15,770	8,653
French Indo-China—			
Ore	—	10	—
Japan—			
Regulus	111	73	41
Turkey—			
Ore	43	1,649	29
Regulus	—	3	25

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

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore, including crude	451	326	313
Regulus	5,331	3,619	4,050
Southern Rhodesia—			
Bars and ingots	5	4	—
Union of South Africa—			
Crude and regulus	20	104	66
Canada—			
Regulus	780	582	411
Australia—			
Ore	10	49	24
Crude and regulus	244	124	76
Sulphide	6	4	12
New Zealand—			
Antimony	18	32	16
FOREIGN COUNTRIES			
Austria—			
Ore	7	—	12
Regulus	174	101	114
Belgium-Luxemburg E.U.—			
Ore	992	6,213	2,876
Regulus	246	227	185
Czechoslovakia—			
Regulus	155	115	105
Compounds	30	19	3
Denmark—			
Regulus and scrap	87	103	102
Estonia—			
Crude and regulus	16	10	7
Finland—			
Ore	5	10	7
France—			
Ore	1,709	1,150	1,630
Crude and regulus	1,909	1,541	1,227
Oxide and sulphide	50	58	82
Germany—			
Ore, including crude	1,633	792	305
Regulus and scrap	3,060	2,369	2,180
Italy—			
Regulus	394	439	432
Oxide	110	56	41

IMPORTS OF ANTIMONY, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Regulus	4	58	75
Latvia—			
Regulus	12	10	1
Netherlands—			
Regulus	152	141	104
Norway—			
Regulus	35	38	(a)
Poland—			
Ore and regulus	187	127	161
Oxide and sulphide	86	99	58
Portugal—			
Crude and alloys	13	13	9
Sulphide	10	14	13
Russia—			
Regulus and oxide	847	1,458	1,158
Spain (total imports)—			
Regulus	75	100	3
Sulphide	54	53	55
Sweden—			
Ore	378	344	268
Switzerland—			
Ore	184	186	108
Algeria—			
Regulus	17	26	(a)
United States—			
Ore (<i>Sb content</i>)	1,665	771	4,342
Regulus and crude	11,537	7,155	4,017
Argentina—			
Regulus and crude	101	108	104
Chile—			
Regulus	170	38	352
Colombia—			
Crude and alloys	25	21	(a)
Regulus	16	11	(a)
Peru—			
Regulus	5	4	2
French Indo-China—			
Ore	10	—	—
Regulus	5	4	4
Sulphide	2	9	11
Japan (total imports)—			
Antimony and regulus	1,856	1,640	2,117
Netherlands East Indies—			
Antimony	69	32	(a)
Turkey—			
Ore and regulus	5	32	9

(a) Information not available.

ARSENIC

PRODUCTION OF ARSENIC

(Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Arsenical pyrites	20	—	—
White arsenic and arsenic soot	953	579	177
Southern Rhodesia—			
White arsenic	51	49	—
Union of South Africa—			
White arsenic	33	15	9
Canada (<i>sales</i>)—			
Gold concentrates (<i>As₂O₃</i> content)	684	903	—
White arsenic	1,651	1 116	(a)
Federated Malay States—			
Arsenic	304	225	133
Australia—			
White arsenic	251	796	1,070
FOREIGN COUNTRIES			
Czechoslovakia—			
Arsenical pyrites, etc. (<i>As</i> content)	14	2	—
France—			
Ore (<i>As</i> content)	4,163	5,060	(a)
White arsenic	3,319	3,800	(a)
Germany—			
Ore (<i>As</i> content)	1,728	1,829	1,821
Greece—			
White arsenic	751	828	(a)
Jugoslavia—			
Ore	—	7	—

(a) Information not available.

PRODUCTION OF ARSENIC (Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Portugal—			
Ore	123	—	156
Sweden—			
Ore (<i>As content</i>)	4,512	4,281	4,500
Algeria—			
Arsenate of lead (<i>As content</i>)	750	347	(a)
Mexico—			
White arsenic (<i>As content</i>) ..	9,512	9,819	6,406
United States—			
White arsenic	14,826	15,229	15,301
China—			
White arsenic	2,349	967	500
Japan—			
White arsenic	1,932	1,627	(a)
Turkey—			
Ore (<i>As content</i>)	6	22	22

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

(a) Information not available.

EXPORTS OF ARSENIC, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic.. ..	22	1	—
White arsenic	120	52	8
Other compounds of arsenic ..	50	252	172
Southern Rhodesia—			
White arsenic	65	24	—
Canada—			
White arsenic, etc.	1,414	1,043	1,381
British Malaya—			
Arsenic	(a)	225	133
Australia (years ended June 30)—			
Metallic arsenic	58	485	204
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Ore	8	13	3
Sulphide	28	21	43
Metallic arsenic	142	94	401
White arsenic	3,858	3,062	2,462
France—			
Ore	125	2	—
Sulphide	30	19	10
White arsenic	2,300	2,539	4,545
Arsenate of lead	72	62	59
Other arsenates	433	817	194
Germany—			
Ore, including antimony ore ..	189	150	74
White arsenic	2,537	4,541	4,355
Greece—			
White arsenic	619	593	704
Sweden—			
Ore	(a)	18,631	15,885
Mexico—			
White arsenic (<i>As content</i>) ..	9,512	9,889	7,401
United States—			
Arsenate of lead	698	1,014	798
Arsenate of lime	1,402	1,418	958
Japan—			
White arsenic	1,702	1,322	2,355
Turkey—			
Ore	4	672	44

(a) Information not available.

IMPORTS OF ARSENIC, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Metallic arsenic	19	27	17
White arsenic	2,346	3,076	3,333
Other compounds	283	113	182
Union of South Africa—			
Arsenate of sodium	573	983	814
Canada—			
Sulphide	8	11	5
White arsenic	55	5	75
Arsenate of lead	378	477	557
Other arsenates	199	293	367
British India (total imports)—			
Arsenic and its oxides.. ..	167	96	106
Australia—			
White arsenic and compounds	933	1,099	734
New Zealand—			
White arsenic, etc.	65	62	36
Arsenates	23	40	(a)
FOREIGN COUNTRIES			
Austria—			
Sulphide	17	7	6
Belgium-Luxemburg E.U.—			
Ore	10,649	3,720	4,405
Sulphide	11	8	7
Metallic arsenic	8	6	8
White arsenic	112	57	6
Bulgaria—			
White arsenic	2	—	—
Czechoslovakia—			
Sulphide	63	39	28
Metallic arsenic	57	43	24
White arsenic	180	110	160
France—			
Ore	56	1	82
Sulphide	9	1	2
Metallic arsenic	31	26	22
White arsenic	164	270	155
Arsenate of lead	—	2	1
Germany—			
Ore	5,983	3,041	5,945
White arsenic	357	175	244
Italy—			
Metallic arsenic	8	7	6
Arsenic compounds	410	501	495

IMPORTS OF ARSENIC (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Metallic and white arsenic ..	11	6	8
Sulphide.. .. .	10	9	3
Latvia—			
White arsenic	10	11	5
Norway—			
Ore	—	2,854	(a)
Poland—			
Metallic arsenic	2	5	3
White arsenic	25	13	9
Sulphides	12	6	11
Portugal—			
Arsenates	3	5	2
White arsenic	20	8	6
Spain (total imports)—			
Arsenic	39	39	25
Sweden—			
White arsenic	36	(a)	(a)
Algeria—			
Arsenates	342	520	(a)
Madagascar—			
Arsenates	13	11	7
United States—			
White arsenic	11,747	9,625	6,934
Sulphide.. .. .	189	248	267
Argentina—			
White arsenic	245	273	647
Sulphide	6	2	4
Compounds	2	12	13
Chile—			
White arsenic, etc.	44	40	22
Colombia—			
Metallic arsenic	3	—	(a)
White arsenic	1	2	(a)
Peru—			
Arsenate of lead	9	5	2
Arsenate of lime	1,085	930	592
Uruguay—			
White arsenic	316	(a)	(a)
French Indo-China—			
White arsenic	1	2	—
Sulphides	3	5	1
Arsenates	3	1	—
Netherlands East Indies—			
Arsenate of lead	983	815	(a)
Turkey—			
Arsenic compounds	4	7	22

(a) Information not available.

ASBESTOS

PRODUCTION OF ASBESTOS

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Southern Rhodesia	38,066	33,720	21,466
Union of South Africa (b)	28,717	23,083	11,480
Canada—			
Chrysotile	294,804	251,019	141,470
<i>Crude</i>	4,286	3,546	2,202
<i>Spinning stocks</i>	17,514	12,886	10,115
<i>Shingle stocks</i>	30,391	20,170	9,782
<i>Millboard and paper stocks</i>	82,046	71,544	33,260
<i>Fillers, floats and other short fibres</i>	143,624	106,508	79,674
<i>Sand, gravel and crushed rock</i>	16,943	36,365	6,437
Actinolite	27	30	31
Cyprus	14,110	7,256	1,138
India	318	33	6
Australia	256	82	128
Total	376,000	315,000	176,000
FOREIGN COUNTRIES			
Finland (Amphibole)	1,600	1,061	(a)
France	740	(a)	(a)
Greece	—	—	2
Italy	2,586	710	(a)
Russia	38,425	53,228	66,000
Mozambique	—	16	(a)
United States (sales)—			
Amphibole	1,046	526	331
Chrysotile	1,771	3,262	2,551
China	273	310	260
Japan (estimated)	1,000	1,000	1,000
Turkey	—	—	4
Total	47,000	61,000	72,000
WORLD'S TOTAL	423,000	376,000	248,000

(a) Information not available.

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

	1929.	1930.	1931.
Amosite ..	8,268 long tons.	2,930 long tons.	1,863 long tons.
Blue ..	5,384 " "	4,894 " "	3,259 " "
Chrysotile	15,845 " "	9,392 " "	8,873 " "

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Unmanufactured—			
Crude and fibre	589	691	712
Waste, including asbestic	14	19	58
Manufactured	33,189	28,088	21,368
Southern Rhodesia—			
Unmanufactured	40,773	31,543	25,007
Manufactured	(£113)	(£10)	—
Union of South Africa—			
Unmanufactured	10,329	10,756	13,528
Manufactured (<i>£ South African</i>)	(£1,192)	(£281)	(£82)
Canada—			
Unmanufactured	128,326	93,091	63,306
Sand and waste	132,415	117,177	79,049
Manufactured	(£23,289)	(£41,015)	(£24,071)
British Malaya (including re-exports)—			
Manufactured	202	124	86
Cyprus—			
Unmanufactured	13,796	5,399	3,571
Australia (including re-exports)—			
Packing (<i>£ Australian</i>)	(£1,692)	(£935)	(£1,634)
New Zealand—			
Manufactured (<i>£ New Zealand</i>)	—	—	(£40)
FOREIGN COUNTRIES			
Austria—			
Unmanufactured	104	114	81
Spun and woven	146	128	76
Paper and board	154	141	130
Cement sheets	82	54	25
Other manufactures	7	14	9
Belgium-Luxemburg E.U.—			
Unmanufactured	2,114	314	237
Spun and woven	131	114	63
Paper and board	646	484	339
Other manufactures	52	50	22

EXPORTS OF ASBESTOS (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Unmanufactured	98	264	462
Spun and woven	63	28	54
Paper and board	561	554	541
Other manufactures	112	141	102
France—			
Spun and woven	547	395	258
Paper and board	644	262	295
Germany—			
Unmanufactured	574	392	553
Spun and woven	861	1,133	1,131
Paper and board	3,396	2,781	2,557
Other manufactures	582	570	535
Italy—			
Unmanufactured	2,860	349	141
Spun and woven	271	278	151
Paper and board	87	59	52
Cement products	12,433	10,762	7,368
Other manufactures	47	19	72
Netherlands	287	227	5
Poland—			
Unmanufactured	8	—	6
Manufactured	6	5	54
Russia	12,404	15,500	13,030
Spain—			
Unmanufactured	—	30	180
Manufactured	6	94	76
Sweden—			
Unmanufactured	2	1	2
Manufactured	9	7	5
Switzerland (including mica)—			
Unmanufactured	23	8	9
Manufactured	485	437	293
United States—			
Unmanufactured	633	688	1,530
Spun and woven	884	797	567
Paper and board	759	856	567
Brake linings	(£313,071)	(£282,202)	(£249,000)
Pipe covering and cement	3,076	2,976	938
Roofing squares	(£123,620)	(£80,833)	(£109,000)
Other manufactures	2,184	2,133	1,068
Japan	(£17,599)	(£18,883)	(£15,992)

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Unmanufactured—			
Crude and fibre	24,920	21,075	18,104
Waste, including asbestic	2,981	2,486	1,329
Manufactured	40,064	34,099	25,960
Kenya and Uganda—			
Manufactured	1,039	122	482
Southern Rhodesia (total imports)—			
Cement sheets (<i>£ South African</i>)	(<i>£5,755</i>)	(<i>£8,722</i>)	(<i>£3,679</i>)
Other manufactures (<i>do.</i>)	(<i>£2,185</i>)	(<i>£1,797</i>)	(<i>£234</i>)
South West Africa—			
Cement sheets (<i>£ South African</i>)	(<i>£2,303</i>)	(<i>£2,092</i>)	(<i>£263</i>)
Other manufactures (<i>do.</i>)	(<i>£17</i>)	(<i>£36</i>)	(<i>£1</i>)
Tanganyika—			
Manufactured	449	337	132
Union of South Africa—			
Packing (<i>£ South African</i>)	(<i>£26,315</i>)	(<i>£27,957</i>)	(<i>£17,831</i>)
Cement Products (<i>do.</i>)	(<i>£36,349</i>)	(<i>£14,641</i>)	(<i>£16,670</i>)
Other manufactures (<i>do.</i>)	(<i>£708</i>)	(<i>£300</i>)	(<i>£1,493</i>)
Canada—			
Packing	101	78	62
Other manufactures	(<i>£183,370</i>)	(<i>£162,541</i>)	(<i>£116,756</i>)
Newfoundland (years ended June 30)—			
Shingles	(<i>£663</i>)	(<i>£3</i>)	—
Other asbestos	(<i>£1,008</i>)	(<i>£797</i>)	(<i>£495</i>)
British India (total imports)—			
Unmanufactured	2	—	—
Packing	(<i>£41,230</i>)	(<i>£35,653</i>)	(<i>£27,600</i>)
Other manufactures	(<i>£197,027</i>)	(<i>£171,320</i>)	(<i>£127,000</i>)
British Malaya—			
Manufactured	9,624	6,951	4,999
Australia—			
Crude	3,679	(<i>a</i>)	1,200
Packing (<i>£ Australian</i>)	(<i>£74,186</i>)	(<i>£88,217</i>)	(<i>£23,231</i>)
New Zealand (<i>£ New Zealand</i>)—			
Sheets, slates and tiles	(<i>£29,992</i>)	(<i>£22,560</i>)	(<i>£13,893</i>)
Packing, brake lining, etc.	(<i>£49,228</i>)	(<i>£46,293</i>)	(<i>£26,880</i>)
Other manufactures	(<i>£422</i>)	(<i>£479</i>)	(<i>£434</i>)

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Austria—			
Unmanufactured	5,281	5,031	4,992
Spun and woven	48	36	27
Paper and board	53	31	12
Cement sheets	47	75	43
Other manufactures	37	31	37
Belgium-Luxemburg E.U.—			
Unmanufactured	22,067	18,750	12,411
Spun and woven	254	277	223
Paper and board	105	140	104
Other manufactures	12	11	10
Bulgaria—			
Manufactured	53	23	26
Czechoslovakia—			
Unmanufactured	10,580	4,779	5,263
Spun and woven	32	18	15
Paper and board	131	63	33
Other manufactures	68	63	61
Denmark—			
Unmanufactured	785	1,013	693
Spun and woven	8	14	10
Paper and board	280	339	353
Estonia—			
Manufactured	85	47	102
Finland (including mica)—			
Unmanufactured	350	339	61
Manufactured	494	250	151
France—			
Spun and woven	280	214	98
Paper and board	371	405	314
Germany—			
Unmanufactured	14,649	13,885	9,653
Spun and woven	77	39	31
Paper and board	107	98	46
Paint and cement products	240	155	158
Other manufactures	109	134	95
Italy—			
Unmanufactured	6,220	6,472	5,194
Spun and woven	172	178	165
Paper and board	304	235	202
Cement products	64	75	103
Other manufactures	77	39	27

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Unmanufactured	1,136	1,029	1,281
Spun and woven	80	52	86
Paper and board	123	96	118
Other manufactures	13	18	31
Latvia—			
Unmanufactured	108	106	49
Manufactured	49	62	35
Lithuania	80	73	79
Netherlands	626	248	267
Norway	1,593	(b) 1,430	(a)
Poland—			
Unmanufactured	1,466	1,216	395
Board	147	51	26
Other manufactures	1,022	795	358
Portugal—			
Unmanufactured	49	58	79
Manufactured	71	93	57
Roumania—			
Unmanufactured	(a)	67	(a)
Manufactured	(a)	115	(a)
Russia	177	264	86
Spain (total imports)—			
Unmanufactured	5,297	6,547	3,225
Spun and woven	102	104	95
Other manufactures	461	286	203
Sweden—			
Unmanufactured	1,029	1,045	953
Board	489	} 936	956
Other manufactures	184		
Switzerland (including mica)—			
Unmanufactured	1,298	800	1,135
Manufactured	643	719	642
Egypt	241	292	100
Costa Rica (total imports)	10	(a)	(a)
Mexico—			
Unmanufactured	500	384	(a)
Panama	53	25	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
United States—			
Unmanufactured—			
Crude (b)	15,157	9,410	4,605
Mill fibre (b)	85,164	61,618	41,777
Stucco and other unmanu- factured (b)	133,968	115,295	74,869
Manufactured	25,216	(c) 1,748	(c) 813
Argentina—			
Spun and woven	134	160	132
Other manufactures	590	578	604
Bolivia—			
Manufactured	46	8	(a)
Brazil (total imports)—			
Unmanufactured	76	134	33
Manufactured	1,419	935	369
Chile—			
Unmanufactured	156	125	49
Manufactured	173	111	363
Colombia—			
Unmanufactured	200	76	(a)
Manufactured	297	183	(a)
Ecuador—			
Manufactured	18	59	37
Venezuela—			
Crude	10	(a)	(a)
Cement products	797	(a)	(a)
Manufactured	153	(a)	(a)
China—			
Manufactured	726	595	698
Iraq (years ended March 31 of the year following)			
	24	33	2
Japan (total imports)—			
Unmanufactured	10,147	10,017	7,127
Manufactured	1,122	1,151	761
Netherlands East Indies—			
Unmanufactured	6	6	(a)
Cement sheets	11,128	7,598	(a)
Philippine Islands— (including manufactures)			
	£18,462	£16,711	£11,000
Siam (total imports)—			
Cement sheets	405	945	692

(a) Information not available.

(b) Total imports.

(c) In addition manufactured asbestos valued at £32,866 and £30,000 was imported during the years 1930 and 1931 respectively.

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Barytes, not ground	29,839	32,753	24,507
Witherite, not ground	9,157	8,095	7,356
Barytes and witherite—			
Ground, bleached	1,192	1,823	1,077
do. unbleached	16,907	16,034	12,640
Irish Free State	40	1,272	574
Southern Rhodesia	260	245	—
Canada (sales)	94	59	14
India	3,750	6,797	5,654
Australia	2,133	1,708	1,567
FOREIGN COUNTRIES			
Austria	295	488	86
France	41,000	39,000	(a)
Germany—			
Bavaria	23,036	17,494	(a)
Prussia	256,692	214,486	157,947
Saxony	1,840	472	(a)
Italy	25,545	19,014	(a)
Portugal	—	—	79
Spain (b)	5,714	5,464	(a)
Algeria	1,200	2,365	(a)
United States	246,379	212,058	155,821
Korea (exports)	4,184	1,536	299

NOTE.—3,875 tons of barytes were recorded as produced in Russia during year ended September, 1928—later figures are not available.

(a) Information not available.

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

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Unground barytes	594	235	527
Ground barytes and blanc fixe	2,454	1,975	1,723
Dioxide	354	479	558
Barium compounds	6,097	4,132	5,136
Irish Free State—			
Crude barytes	—	1,012	—
Ground barytes	—	223	504
FOREIGN COUNTRIES			
Austria—			
Barytes	26	100	55
Carbonate and chloride ..	27	6	8
Belgium-Luxemburg E. U.—			
Chloride	6,556	3,976	4,829
Sulphate	212	243	182
Sulphide	42	25	8
Czechoslovakia—			
Barytes	1,622	751	704
Chloride	2,259	1,107	557
Sulphate	1,152	730	475
France—			
Barytes	2,324	10,081	1,878
Witherite	12	125	127
Carbonate	59	98	544
Chloride	159	256	1,141
Nitrate and sulphide	8	5	16
Sulphate	289	525	166
Germany—			
Barytes and celestite	291,254	284,069	203,344
Witherite and strontianite ..	391	215	878
Carbonate	8,645	7,213	4,500
Chloride	2,461	3,299	1,986
Nitrate	998	852	664
Sulphate	8,031	6,853	5,956
Italy—			
Sulphate	4,108	3,772	5,392
Oxide and chloride	15	51	1
Latvia—			
Barytes	—	148	57
Netherlands—			
Barytes	127	58	265
Korea—			
Barytes	4,184	1,536	299

* For lithopone see "Zinc," page 378.

IMPORTS OF BARIUM MINERALS, ETC.*

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Unground barytes	15,445	19,883	5,995
Ground barytes.. .. .	31,181	27,374	25,046
Blanc fixe	2,148	1,718	1,985
Barium compounds	2,471	2,291	2,477
Union of South Africa—			
Barytes	330	281	221
Dioxide	17	11	9
Canada—			
Barytes	2,363	1,740	1,506
Blanc fixe	844	942	713
Dioxide	13	3	3
Trinidad and Tobago—			
Barytes	5,977	15,129	8,948
British India (total imports)—			
Barytes	2,826	5,785	4,530
Australia—			
Barytes	112	134	46
FOREIGN COUNTRIES			
Austria—			
Barytes	2,090	1,354	1,203
Carbonate and chloride ..	875	682	739
Belgium-Luxemburg E.U.—			
Chloride	37	67	110
Dioxide	112	90	43
Sulphate	2,352	1,286	915
Sulphide	1	1	2
Czechoslovakia—			
Crude barytes	11,363	5,492	4,093
Ground barytes	3,271	3,299	2,592
Carbonate	222	244	179
Chloride	4	3	5
Sulphate	108	114	199
Denmark—			
Barytes	17	10	22
Witherite	184	166	279
Chloride.. .. .	21	42	66
Sulphate	539	663	566

* For lithopone see "Zinc," page 363.

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Estonia—			
Barytes, ground	22	28	27
Sulphate	14	16	10
Finland—			
Barytes	410	436	403
Chloride	49	60	73
France—			
Barytes	27,668	41,634	27,209
Witherite	517	331	125
Carbonate	1,744	1,065	200
Chloride	3,000	2,171	1,661
Nitrate	55	72	44
Sulphate	727	801	1,105
Germany—			
Barytes and celestite	3,614	3,097	2,665
Witherite and strontianite	679	1,092	660
Carbonate	89	—	5
Sulphate.. ..	24	61	12
Hungary—			
Ground barytes	1,184	1,109	998
Sulphate	120	95	90
Italy—			
Carbonate	360	243	174
Chloride	572	275	183
Oxide and dioxide	222	86	75
Sulphide	12	2	2
Sulphate	1,074	951	439
Jugoslavia—			
Barytes and witherite.. ..	—	65	14
Ground barytes	517	398	443
Chloride.. ..	312	396	366
Latvia—			
Barytes	84	38	48
Chloride.. ..	15	13	6
Sulphate	17	25	4
Lithuania—			
Barytes and witherite.. ..	42	46	24

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Barytes	41,974	34,370	30,875
Poland—			
Barytes	6,298	2,429	1,415
Witherite	30	—	—
Carbonate	48	62	64
Chloride	1	12	6
Oxide	50	40	5
Sulphate	171	129	144
Portugal—			
Sulphate	(a)	498	650
Dioxide	4	8	10
Roumania—			
Carbonate	(a)	10	(a)
Chloride	(a)	135	(a)
Sulphate	(a)	40	(a)
Russia—			
Barytes, witherite and salts ..	245	134	31
Sweden—			
Barytes and witherite.. ..	1,249	1,150	1,224
Algeria—			
Barytes	50	15	(a)
Chloride	59	65	(a)
Sulphate	118	81	(a)
Egypt—			
Barytes	11	(a)	(a)
United States—			
Barytes	76,544	46,528	65,250
Witherite	3,907	2,287	2,100
Ground barytes	2,611	2,081	830
Sulphate	3,128	2,673	(a)
Barium compounds	3,639	2,994	1,869
Argentina—			
Barytes	3,224	2,890	3,261
Sulphate	191	69	77

(a) Information not available.

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Chile—			
Barytes	1	—	—
Chloride	70	56	40
Venezuela—			
Barytes	2,903	(a)	(a)
Netherlands East Indies—			
Chloride	16	184	(a)
Turkey—			
Barium compounds	13	17	7

(a) Information not available.

BISMUTH

PRODUCTION OF BISMUTH ORE, ETC.

(Cwt.)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
Canada— Metal and content of bullion ..	1,735	114	1,055
India— Ore	88 lb.	1	42lb.
Australia— Ore, etc.	67	83	792
FORRIGN COUNTRIES			
Czechoslovakia— Ore (<i>Bi content</i>)	75	—	—
Germany (Saxony)— Bismuth-cobalt-nickel ore ..	940	2,342	(a)
Spain— Ore	2,323	1,319	(a)
Metal	219	632	(a)
Argentina— Ore	145	—	(a)
Bolivia (exports)— Ore, etc. (<i>Bi content</i>)	2,974	1,219	523
Peru— Ore (<i>Bi content</i>).. .. .	613	(a)	(a)
China— Ore	4,320	3,140	2,620
Japan— Metal	984	1,079	(a)

(a) Information not available.

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

EXPORTS OF BISMUTH, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom— Bismuth	1,004	1,449	768
Australia (including re-exports)— Ore	1	1	—
FOREIGN COUNTRIES			
France— Bismuth	—	28	26
Bismuth salts	409	689	642
Germany— Bismuth salts	1,695	1,963	1,165
Italy— Bismuth salts	49	15	6
Spain (including re-exports)— Bismuth	1,644	545	380
Argentina— Ore	450	207	41
Bolivia— Ore, etc. (<i>Bi content</i>)	2,974	1,219	523
Peru— Ore (<i>Bi content</i>)	894	2,368	5,532

(s) Information not available.

IMPORTS OF BISMUTH, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	1,673	820	966
Bismuth.. .. .	371	4,075	3,953
Canada—			
Bismuth.. .. .	24	20	1
Bismuth salts	(£7,481)	(£8,870)	(£5,617)
Australia—			
Bismuth salts	191	224	64
New Zealand—			
Bismuth salts (£ New Zealand)	(£3,051)	(£3,965)	(£2,427)
FOREIGN COUNTRIES			
Estonia—			
Bismuth salts	7	14	7
France—			
Bismuth.. .. .	1,549	1,587	1,100
Bismuth salts	32	71	—
Germany—			
Bismuth salts	104	24	24
Italy—			
Bismuth salts	154	148	110
Latvia—			
Bismuth salts	28	36	34
Poland—			
Bismuth.. .. .	20	4	8
Bismuth salts	152	186	161
Portugal—			
Bismuth salts	288	52	37
Russia—			
Bismuth salts	4,350	13,208	37,046
Spain (total imports)—			
Bismuth salts	135	193	162
United States—			
Bismuth.. .. .	335	218	69
Bismuth salts	32	6	8
Argentina—			
Bismuth.. .. .	65	68	57
Bismuth salts	264	294	158
Chile—			
Bismuth salts	83	95	19
Peru—			
Bismuth salts	23	18	13
Turkey—			
Bismuth salts	40	38	22

BORATES

PRODUCTION OF CRUDE BORATES

(Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
India—			
Borates	7 <i>cut.</i>	—	—
FOREIGN COUNTRIES			
Germany—			
Boracite	53	38	10
Italy—			
Crude boric acid	4,714	4,750	4,943
United States—			
Borates	151,670	158,357	154,107
Argentina—			
Borate of calcium	921	620	(a)
Tibet (b)—			
Borax	623	545	476
Turkey—			
Borates	13,814	5,370	6,369

(a) Information not available.

(b) Imports into India from Tibet.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Borates	53	1	6
Borax	3,515	2,225	1,849
Boric acid	1,276	696	526
British India—			
Borax	117	49	48
FOREIGN COUNTRIES			
Austria—			
Borax	143	77	64
Boric acid	4	6	6
Belgium-Luxemburg E.U.—			
Borax	519	192	138
Boric acid	6	28	23
Czechoslovakia—			
Borax and boric acid	76	19	4
France—			
Borax and borates	902	722	694
Perborate of sodium	254	430	538
Boric acid	2,150	1,604	1,824
Germany—			
Borax and boric acid	1,648	1,774	1,428
Italy—			
Borax	546	1,852	1,688
Boric acid	912	1,251	1,838
Netherlands—			
Borax	545	700	1,268
Sweden—			
Borax and boric acid	1	1	10
United States—			
Crude borates and borax	71,325	74,046	77,623
Boric acid	2,323	1,252	1,885
Argentina—			
Borate of calcium	67	82	52
Chile—			
Borate of calcium	4,190	—	—
Turkey—			
Borates	(b)	(b)	(b)

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

	1929	1930	1931
United Kingdom	2,298	1,440	1,150
France	5,220	3,060	(a)

IMPORTS OF BORATES

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Borates	10,173	7,899	7,572
Borax	11,137	10,814	11,807
Boric acid	2,068	1,764	2,186
Irish Free State—			
Boric acid	24	19	25
Southern Rhodesia—			
Borax	32	30	32
Boric acid	2	3	1
Union of South Africa—			
Borax	275	225	298
Boric acid	95	93	96
Canada—			
Borax	1,599	2,034	1,941
Boric acid	570	367	422
British India (total imports)—			
Borax and boric acid	1,577	1,286	1,414
Australia—			
Borax	1,470	811	756
Boric acid	398	294	282
New Zealand—			
Borax	209	177	263
Boric acid	57	47	58
FOREIGN COUNTRIES			
Austria—			
Borax	539	297	511
Boric acid	5	4	8
Belgium-Luxemburg E.U.—			
Borax	2,920	2,156	1,436
Boric acid	240	220	182
Bulgaria—			
Borax and boric acid	49	39	45
Czechoslovakia—			
Borax	2,704	1,339	2,397
Boric acid	285	205	187

IMPORTS OF BORATES (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Borates	98	61	143
Borax and boric acid	187	157	148
Estonia—			
Borax and boric acid	15	11	36
Finland—			
Borax	88	84	102
Boric acid	18	22	21
France—			
Borax and borates	10,463	11,297	10,286
Perborate of sodium	110	101	50
Boric acid	404	284	563
Germany—			
Borates	20,400	21,828	18,857
Borax and boric acid	9,316	8,566	7,706
Hungary—			
Borax and borates	238	77	101
Boric acid	18	26	21
Italy—			
Borax	59	23	24
Boric acid	(6 cwt.)	1	2
Jugoslavia—			
Borax	587	891	350
Boric acid	8	12	11
Latvia—			
Borax and boric acid	33	37	28
Perborate of sodium	10	15	15
Lithuania—			
Borax and boric acid	13	15	9
Netherlands—			
Borax	2,447	3,772	2,220
Norway—			
Borax	86	78	(a)
Boric acid	75	56	(a)
Poland—			
Boron minerals	865	667	411
Borax	681	522	409
Boric acid	61	5	2
Portugal—			
Borates	259	336	296
Boric acid	24	35	26

(a) Information not available.

IMPORTS OF BORATES (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Rumania—			
Borax	(a)	159	(a)
Boric acid	(a)	41	(a)
Russia—			
Borates	2,821	3,954	4,206
Spain (total imports)—			
Boric acid	38	76	66
Borates	347	582	456
Sweden—			
Borax	727	595	671
Boric acid	127	129	113
Switzerland—			
Borax	675	779	855
Egypt—			
Borax	44	38	43
Tunis—			
Borax	7	5	5
United States—			
Borates	4,545	(a)	(a)
Borax	3	7	1
Boric acid	3	69	47
Argentina—			
Borax	187	74	99
Boric acid	24	31	25
Chile—			
Borates	14	—	28
Boric acid	25	24	9
Colombia—			
Borax	17	10	(a)
Boric acid	50	18	(a)
Ecuador—			
Boric acid	5	3	5
Borax	3	3	3
Peru—			
Borax	13	10	7
Boric acid	19	21	20
Uruguay—			
Borate of calcium	77	(a)	(a)
Borax	7	32	25
Venezuela—			
Borax	2	(a)	(a)
Boric acid	18	(a)	(a)
China—			
Borax	1,365	677	1,162
Boric acid	147	118	146

IMPORTS OF BORATES (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
French Indo-China—			
Borax	131	176	219
Boric acid	8	4	3
Japan (total imports)—			
Borax	4,289	3,561	6,791
Boric acid	1,128	803	2,857
Netherlands East Indies—			
Borax	62	38	(a)
Syria and Lebanon—			
Boric acid	8	7	2
Turkey—			
Boric acid	9	(a)	(a)

(a) Information not available.

CADMIUM

PRODUCTION OF CADMIUM
(Lb. avdp.)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Canada	773,976	456,582	323,139
Australia	445,907	509,598	445,158
FOREIGN COUNTRIES			
Belgium (exports) ..	5,100	11,200	6,400
France	130,000	150,000	181,167
Germany (estimated) ..	100,000	100,000	(a)
Italy (estimated)	(a)	26,500	26,500
Poland	7,901	(a)	(a)
United States—			
Metal	2,481,427	2,777,762	1,050,529
Compounds (metal content)	433,300	316,300	337,200
Mexico (b)	1,413,092	1,207,564	70,175

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

(a) Information not available.

EXPORTS OF CADMIUM, ETC.
(Domestic Produce)
(Lb. avdp.)

Exporting Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	5,197	14,516	4,787
Australia (including re-exports)	370,384	347,872	135,296
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.	5,100	11,200	6,400
France	32,000	34,400	128,300
Poland	1,500	88,600	249,800
Mexico (b)	1,413,092	1,207,564	70,175

(b) Recorded as cadmium, but probably zinc-cadmium fume exported to the United States for treatment. See imports into United States, page 57.

IMPORTS OF CADMIUM

(Less Re-exports)

(Lb. avdp.)

Importing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	349,739	253,396	288,876
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.	7,900	10,600	20,100
France	187,400	161,600	256,200
Italy (cadmium salts) ..	200	900	200
Poland	2,600	10,100	3,700
United States	214,307	40,105	271
Argentina (cadmium salts)	485	280	348
Chile (cadmium salts) ..	139	466	93
Colombia	—	10	(a)
Peru (including cadmium salts)	31	11	2
Turkey (including cadmium salts)	75	80	168

(a) Information not available.

CHINA CLAY

PRODUCTION OF CHINA CLAY

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	826,046	716,319	570,524
India	16,657	19,116	23,365
Unfederated Malay States	741	410	396
Australia	6,082	(b) 2,820	(b) 3,215
FOREIGN COUNTRIES			
Bulgaria	1,349	5,656	(a)
Belgium (e)	11,072	9,301	(a)
Czechoslovakia (estimated)	450,000	400,000	400,000
Denmark—			
Crude	21,341	29,405	35,200
Washed and pressed ..	5,000	7,700	8,100
Dried	—	—	1,700
France	169,100	(a)	(a)
Germany—			
Bavaria	376,953	366,712	327,520
Prussia	15,984	12,844	10,797
Saxony—			
Crude	48,196	51,327	(a)
Washed	64,268	47,487	(a)
Italy—			
Crude	14,688	12,308	4,258
Washed and ground (c)	7,220	4,839	(a)
Kaolinic earth	16,300	10,035	(a)
Portugal	3,818	4,601	6,513
Roumania (d)	7,376	6,666	(a)
Spain (g)	2,034	800	(a)
Algeria	1,344	2,523	(a)
United States (f)	462,651	455,673	(a)
Argentina	—	369	(a)
Chile	—	800	(a)

PRODUCTION OF CHINA CLAY (*Cont.*)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
China	786,000	778,000	772,000
Japan (estimated) ..	400,000	400,000	400,000
Korea	8,586	8,134	(a)

NOTE.—77,585 long tons of china clay were recorded as produced in Russia during year ended September, 1928—later figures are not available.

(a) Information not available.

(b) Excluding production of Victoria, which is not available, but amounted to 1,717 long tons in 1929.

(c) Derived from crude and stocks.

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

(e) "Eurite" and kaolin.

(f) Sales of china clay and paper clay.

(g) 3,350 and 2,100 cubic metres of kaolinic sand were also produced in quarries during 1929 and 1930 respectively.

EXPORTS OF CHINA CLAY

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

Exporting Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (b) ..	639,358	529,026	414,362
British Malaya (c) ..	335	300	273
FOREIGN COUNTRIES			
Austria	13,225	14,100	14,025
Belgium-Luxemburg E.U. (including other clays) ..	685	2,229	9,564
Bulgaria (including other clays)	821	400	511
Czechoslovakia	306,899	272,658	218,936
Denmark	2,985	3,543	6,423
France	8,735	9,894	9,820
Germany	62,953	59,396	52,549
Italy	95	114	61
Jugoslavia	45	56	157
Netherlands (including pipe clay)	1,000	805	270
Poland	437	—	21
Portugal	128	221	1,404
Russia	17,277	17,245	14,970
Spain	149	583	2,625
Sweden	582	46	1
Switzerland (including other clays)	8,334	9,750	11,112
Algeria	1,410	2,793	(a)
French Indo-China ..	—	3	—

(b) Including Cornish or china stone.

(c) Including re-exports.

IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	(b) 474	(b) 499	332
Union of South Africa (b)	68	66	180
Canada	22,213	20,636	16,381
Newfoundland (c)	4,180	4,069	4,103
British India (total imports)	22,248	16,948	20,708
British Malaya	90	19	18
FOREIGN COUNTRIES			
Austria	18,018	9,806	9,339
Belgium-Luxemburg E.U. (including other clays) ..	62,025	64,442	52,867
Bulgaria (including other clays)	349	157	143
Czechoslovakia	7,139	4,767	4,031
Denmark—			
Crude	913	747	1,718
Washed	5,096	6,075	3,610
Estonia	2,485	2,882	2,453
Finland	10,762	11,382	13,040
France	82,139	73,493	70,228
Germany	314,507	277,735	228,906
Italy	40,346	45,370	42,221
Jugoslavia	3,888	5,011	3,742
Latvia	568	1,894	1,600
Netherlands (including pipe clay)	103,945	104,009	85,239
Poland	23,064	20,901	17,789
Portugal	290	164	126
Spain	22,537	21,673	18,983
Sweden	29,038	25,338	26,299
Switzerland (including other clays)	121,796	120,368	123,455
United States	249,921	210,911	135,210
Colombia	11	4	(a)
Argentina	1,560	2,647	2,518
Chile	20	—	29
Uruguay	58	(a)	(a)
French Indo-China	329	240	255
Netherlands East Indies ..	615	763	(a)

(a) Information not available.

(b) Including Cornish or china stone.

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

CHROME ORE AND CHROMIUM

PRODUCTION OF CHROME ORE

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Southern Rhodesia ..	261,711	202,385	80,334
Union of South Africa ..	62,964	13,508	22,966
Cyprus	2,444	1,544	200
Canada	113	—	—
India	49,565	50,684	19,913
Australia	129	168	26
Total ..	377,000	268,000	123,000
FOREIGN COUNTRIES			
Greece	23,832	23,032	(a)
Jugoslavia	42,343	50,583	56,238
Russia (years ended Sept.30)	28,000	65,028	(a)
Cuba	39,760	(c) 40,982	8,959
United States	543	310	268
Brazil (exports)	69	10	—
French Indo-China	—	1,500	1,400
Japan	9,000	11,169	(a)
Turkey	14,840	27,879	24,987
New Caledonia	51,800	61,000	62,000
Total ..	210,000	280,000	(a)
WORLD'S TOTAL	590,000	550,000	(a)

(a) Information not available.

(c) Imports into the United States.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	464	269	259
Chromates of potash	903	796	886
Chromates of soda	1,897	1,553	1,265
Southern Rhodesia—			
Ore	251,145	171,695	86,741
Union of South Africa—			
Ore	44,010	22,670	20,388
British India (<i>b</i>)—			
Ore	18,159	22,498	7,708
Cyprus—			
Ore	829	—	3
FOREIGN COUNTRIES			
Austria—			
Chrome alum	187	112	116
Belgium-Luxemburg E.U.—			
Chromates of potash and soda	1,975	864	208
Czechoslovakia—			
Ore	—	122	1
Chromates of potash and soda	13	48	—
France—			
Ore	(<i>a</i>)	(<i>a</i>)	153
Chromates of potash and soda	52	241	235
Ferro-chrome	320	140	375
Chrome-alum	31	24	19
Germany—			
Chrome and nickel ores ..	297	624	387
Chromates of potash and soda, and oxides of chromium ..	6,560	6,088	6,954

(*a*) Information not available.

(*b*) Excluding chrome ore mined in British India, but exported via the Portuguese port of Mormugao—1929, 14,213 tons—1930, 7,480 tons.

EXPORTS OF CHROME ORE, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Greece—			
Ore	19,803	24,048	991
Italy—			
Ferro-chrome	—	—	260
Chrome alum	3	9	9
Jugoslavia—			
Ore	21,107	32,538	28,828
Netherlands—			
Chromium compounds ..	28	21	6
Norway—			
Ferro-chrome	3,809	4,076	4,779
Russia—			
Ore	8,503	14,808	23,435
Chromates	506	1,073	1,919
Sweden—			
Ore	—	—	1,031
Ferro-chrome	8,195	5,752	5,911
Switzerland—			
Ferro-chrome, including ferro- silicon	6,375	4,513	3,942
Cuba—			
Ore	43,795	36,257	8,959
United States—			
Chromates of soda	2,614	2,202	1,968
Brazil—			
Ore	69	10	—
French Indo-China—			
Ore	20	871	2,101
Turkey—			
Chromium compounds ..	2,677	—	—
New Caledonia—			
Ore	58,213	52,676	37,669

IMPORTS OF CHROME ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	27,099	16,639	12,727
Chromates of potash	75	54	81
Chromates of soda	2,523	1,759	1,484
Canada—			
Bichromate of potash	75	36	58
Bichromate of soda	801	880	719
British India (total imports)—			
Bichromate of potash	268	198	276
Bichromate of soda	627	606	461
Australia —			
Ore	3	38	—
Bichromate of potash	56	—	11
FOREIGN COUNTRIES			
Austria—			
Chrome alum and sulphate	64	101	49
Chromate of potash and soda	281	217	294
Belgium-Luxemburg E.U.—			
Chromates of potash and soda	185	184	450
Bulgaria—			
Chromate of potash	22	24	29
Czechoslovakia—			
Ore	3,361	1,813	714
Chromates of potash and soda	3	4	27
Denmark—			
Chromate of potash	12	28	16
Chromate of soda	87	58	56
Estonia—			
Chromates	11	18	10
Finland—			
Chromates of potash	59	69	75
Chromates of soda	16	16	11
Chrome alum and sulphate	40	48	52

IMPORTS OF CHROME ORE, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France—			
Ore	(a)	(a)	12,570
Chromates of potash and soda	2,700	2,079	2,293
Ferro-chrome	1,522	1,372	732
Chrome alum	356	492	434
Germany—			
Ore	41,036	28,432	27,095
Chromates of potash and soda, and oxides of chromium ..	194	276	828
Hungary—			
Chromates of potash, soda and ammonia	300	381	355
Italy—			
Ferro-chrome	322	489	212
Chromates of potash, soda and ammonia	453	218	165
Chrome alum	388	262	92
Jugoslavia—			
Chromates of potash and soda	67	50	30
Chrome alum	229	231	140
Latvia—			
Chrome alum	57	82	49
Chromates of potash and soda	16	23	14
Netherlands—			
Chromium compounds ..	1,104	1,318	985
Norway—			
Ore	11,563	19,485	9,061
Poland—			
Ore	525	431	206
Ferro-chrome	251	243	162
Chrome alum	54	21	16
Chromates	625	531	667
Portugal—			
Chromate of potash	15	18	24
Chromate of soda	13	30	18
Chrome alum	18	36	24

IMPORTS OF CHROME ORE, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Russia—			
Ferro-chrome	598	2,187	4,088
Chromium compounds ..	21	153	2
Spain (total imports)—			
Chromates	588	755	868
Sweden—			
Ore	23,842	25,888	15,964
Chrome alum	384	615	590
Ferro-chrome	1,075	493	421
Chromates	23	186	223
Switzerland—			
Ore (<i>estimated</i>)	5,500	4,300	2,700
Ferro-chrome and ferro- silicon	1,700	1,657	1,595
Egypt—			
Bichromate of potash and soda	388	283	307
United States—			
Ore	317,630	330,531	212,528
Metal and ferro-chrome ..	667	162	95
Argentina—			
Bichromate of potash	238	172	98
Bichromate of soda	180	47	161
Chrome alum	37	48	38
Chile—			
Bichromate of potash	78	47	36
Colombia—			
Chrome alum	185	128	(a)
Bichromate of potash	3	1	(a)
Peru—			
Chromium compounds	66	42	44
French Indo-China—			
Chromates of potash and soda	14	8	44
Japan (total imports)—			
Bichromate of potash	237	329	170
Bichromate of soda	784	365	345
Turkey—			
Chromium compounds	134	30	6

(a) Information not available.

COAL, COKE AND BY-PRODUCTS.

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

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Anthracite	6,364,036	6,400,705	5,829,175
Bituminous	251,542,766	237,481,119	213,629,776
Lignite	322	—	—
Irish Free State—			
Anthracite	67,734	(a)	(a)
Semi-bituminous ..	17,453	(a)	(a)
Nigeria	344,937	347,842	327,681
Southern Rhodesia ..	1,020,446	923,915	577,983
Union of South Africa..	12,812,790	12,029,529	10,709,114
Canada—			
Bituminous	11,481,984	9,665,035	7,908,210
Sub-bituminous ..	597,055	538,712	420,805
Lignite	3,542,887	3,083,149	2,591,178
British Borneo—			
State of North Borneo	58,339	58,491	28,926
Sarawak	13,610	14,680	18,213
Federated Malay States	661,514	565,573	402,355
India—			
Gondwana Coalfields	23,001,586	23,342,372	} 21,716,435
Tertiary Coalfields..	417,148	460,676	
Australia—			
Bituminous	10,365,319	9,531,359	8,700,000
Lignite	1,741,176	1,831,507	1,900,000
New Zealand—			
Bituminous	1,367,164	1,382,875	} 2,157,756
Brown coal	1,049,603	1,046,677	
Lignite	119,097	112,540	
Total ..	327,000,000	309,000,000	277,000,000
FOREIGN COUNTRIES			
Austria—			
Bituminous	204,735	212,478	224,541
Brown coal	3,469,123	3,014,605	2,934,978

PRODUCTION OF COAL (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Belgium—			
Anthracite and semi-anthracite	5,826,029	5,710,956	} 26,608,285
Bituminous	20,688,422	21,270,796	
Bulgaria—			
Anthracite	2,479	2,303	(a)
Bituminous	75,129	67,233	(a)
Lignite	1,548,122	1,498,345	1,483,320
Czechoslovakia—			
Bituminous	16,260,524	14,207,021	12,895,773
Brown coal	22,204,480	18,890,532	17,648,430
France—			
Saar	13,364,882	13,026,730	11,187,485
Other districts—			
Anthracite	5,166,000	5,167,000	} 50,256,326
Bituminous	47,764,403	47,881,640	
Lignite	1,178,312	1,124,685	1,023,591
Germany—			
Bituminous	160,859,314	140,444,006	116,766,300
Brown coal	171,700,657	143,704,018	131,205,200
Greece—			
Lignite	154,054	127,576	(a)
Hungary—			
Bituminous	813,220	798,731	764,150
Brown coal	6,659,925	5,746,586	5,650,352
Lignite	272,765	332,348	364,451
Italy—			
Anthracite	14,007	19,530	15,331
Bituminous	205,813	207,946	216,640
Brown coal	769,694	567,750	358,730
Jugoslavia—			
Bituminous	402,128	360,430	426,740
Brown coal	4,055,956	3,748,858	3,465,459
Lignite	1,105,646	1,077,869	1,022,048
Netherlands—			
Bituminous	11,398,293	12,018,229	12,697,631
Brown coal	154,095	141,873	120,269

(a) Information not available.

PRODUCTION OF COAL (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES			
<i>(Cont.)</i>			
Poland—			
Bituminous	45,505,803	36,914,000	37,661,000
Brown coal	73,147	54,000	(a)
Portugal—			
Anthracite	175,864	183,471	223,475
Bituminous	18,098	27,345	(a)
Brown coal	28,880	33,928	(a)
Rumania—			
Bituminous	365,088	294,105	} 2,000,705
Lignite	2,632,831	2,038,348	
Russia	40,711,700	47,635,600	56,804,500
Spain—			
Anthracite	491,851	515,306	554,896
Bituminous	6,504,199	6,492,054	6,517,471
Brown coal	432,018	381,904	346,962
Spitzbergen and Bear Island	247,218	185,443	(b) 203,086
Sweden	388,737	391,675	337,777
Algeria	15,875	16,922	25,188
Belgian Congo	112,642	131,700	84,359
Madagascar	25	(a)	(a)
Morocco (French)—			
Anthracite	—	1,000	5,574
Greenland	3,500	47,000	(a)
Mexico	1,043,277	1,054,793	770,504
United States—			
Anthracite	65,918,031	61,950,747	53,153,000
Bituminous and lignite	477,668,387	417,434,196	337,600,000
Brazil	167,251	(a)	(a)
Chile	1,484,051	1,419,367	1,090,100
Colombia (estimated)..	100,000	100,000	100,000
Peru	217,120	196,855	(a)

PRODUCTION OF COAL (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Venezuela (c)	16,593	12,360	(a)
China (d)	25,437,000	26,037,000	27,245,000
Formosa	1,505,860	(a)	(a)
French Indo-China—			
Anthracite	1,872,373	1,860,000	1,647,000
Bituminous	38,277	47,000	30,000
Brown coal	30,228	28,000	22,000
Japan—			
Semi-anthracite and bituminous	33,716,762	30,880,669	25,388,007
Brown coal	137,000	126,593	(a)
Karafuto	625,478	634,788	(a)
Korea—			
Anthracite	529,744	} 870,174	(a)
Bituminous	393,345		
Netherlands East Indies	1,802,811	1,840,111	1,320,000
Philippine Islands ..	17,047	20,423	(a)
Turkey—			
Bituminous	1,398,565	1,569,966	1,553,000
Lignite	11,375	8,043	7,654
New Caledonia	21,000	10,000	(a)
Total ..	1,210,000,000	1,080,000,000	950,000,000
WORLD'S TOTAL	1,540,000,000	1,390,000,000	1,230,000,000

(a) Information not available.

(b) Exports.

(c) Excluding production in government-owned mines.

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

PRODUCTION OF COKE

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Great Britain—			
Gas-works (b)	12,411,266	12,316,709	12,107,372
Coke ovens—coke	13,421,998	11,514,021	8,470,709
breeze	639,057	664,332	550,252
Irish Free State—			
Gas works	100,937	(a)	(a)
Southern Rhodesia	98,423	75,827	39,237
Union of South Africa	97,729	88,017	85,007
Canada—			
Gas-works	272,636	288,598	285,999
Coke-ovens	2,152,491	1,841,754	1,350,034
Straits Settlements	15,420	14,114	12,429
India (c)—			
Hard	72,453	62,487	(a)
Soft	757,727	745,564	(a)
Australia—			
Gas-works—			
New South Wales (e)	435,816	421,093	370,234
Victoria (e)	279,887	260,436	211,224
Queensland (e)	54,293	53,805	54,680
South Australia (e)	63,101	67,422	51,126
Western Australia (e)	11,396	12,496	12,316
Tasmania	5,554	5,787	4,288
Coke-ovens—			
New South Wales (e)	567,810	400,164	285,064
Queensland	1,644	(a)	(a)
New Zealand (years ended March 31)—			
Gas-works	77,399	79,600	77,763
FOREIGN COUNTRIES			
Austria (gas-works)	619,015	560,497	547,087
Belgium—			
Coke	5,857,760	5,202,131	5,571,809
Breeze	237,391	261,750	(a)
Czechoslovakia	3,120,553	2,671,796	2,014,051
Denmark (gas-works)	251,607	265,000	276,000
Finland (gas-works)	44,706	48,566	(a)
France—			
Saar	2,384,785	2,608,000	(a)
Other districts—			
Metallurgical, etc.	8,936,719	9,022,000	(a)
Gas-works	2,326,946	2,101,000	(a)
Germany	39,546,156	32,992,018	22,341,610

PRODUCTION OF COKE (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Hungary (metallurgical) ..	2,059	(a)	2,150
Italy (metallurgical) ..	779,105	800,480	728,575
Netherlands—			
Gas-works	800,000	700,000	700,000
Coke ovens	2,364,621	2,558,349	2,696,079
Norway (gas works) ..	67,290	64,158	(a)
Poland	1,828,707	1,557,013	1,333,223
Russia (years ended Sept.30)	4,641,000	6,097,000	(a)
Spain (incomplete figures)			
Metallurgical	755,910	664,877	562,855
Gas works	212,804	229,141	(a)
Sweden	381,667	381,513	(a)
Switzerland—			
Gas-works	376,075	358,816	382,507
Algeria	48,000	44,000	(a)
United States (d)	53,467,719	42,832,162	29,896,327
Chile	50,098	48,631	(a)
Peru	25,490	(a)	(a)
French Indo-China ..	627	(a)	(a)
Manchuria	382,174	(a)	(a)

- (a) Information not available.
(b) Including coke breeze.
(c) Coke made at collieries only.
(d) Excluding gasworks coke.
(e) Years ended June 30 of the year stated.

PRODUCTION OF COAL BRIQUETTES
(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Great Britain	1,372,864	1,130,962	869,542
FOREIGN COUNTRIES			
Belgium	1,986,237	1,845,594	1,821,107
Czechoslovakia—			
Coal briquettes	266,025	235,304	281,268
Brown-coal briquettes ..	252,064	177,864	206,127
France	6,564,909	6,726,000	4,924,129
Germany—			
Coal briquettes	5,963,498	5,094,870	4,608,573
Brown-coal briquettes ..	41,471,341	33,451,366	31,922,036
Hungary—			
Coal briquettes	46,126	} 99,413	185,246
Brown-coal briquettes ..	61,714		
Italy—			
Brown-coal briquettes ..	6,610	1,970	2,411
Jugoslavia	50,664	31,901	(a)
Netherlands—			
Coal briquettes	943,053	930,999	1,143,301
Brown-coal briquettes ..	53,637	48,096	40,246
Poland	349,180	230,425	294,945
Spain	937,490	915,052	728,664
Algeria	99,948	94,166	(a)
United States	1,082,513	918,629	623,496
Venezuela	1,665	516	(a)
French Indo-China ..	111,437	142,000	133,000
Netherlands East Indies ..	63,087	51,466	17,143

(a) Information not available.

PRODUCTION OF COAL BY-PRODUCTS

Producing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
Great Britain—				
Tar	Long ton	1,952,167	1,834,852	1,640,709
Pitch	do.	573,681	490,792	341,370
Ammonium salts expressed as sulphate (25 $\frac{1}{4}$ % NH ₃) (b)	do.	912,259	777,090	646,629
Benzol (refined)	Gallon	36,000,000	33,000,000	28,000,000
Irish Free State—				
Gas-works—				
Tar	Long ton	9,482	(a)	(a)
Pitch	do.	978	(a)	(a)
Ammonium sulphate	do.	1,891	(a)	(a)
Union of South Africa—				
Tar	Gallon	541,813	507,483	497,704
Ammonium sulphate	Long ton	1,039	215	583
Canada—				
Tar (refined)	Gallon	7,322,998	6,856,765	(a)
Pitch	Long ton	49,259	40,994	(a)
Ammonium sulphate	do.	30,482	21,333	25,316
Creosote, etc.	Gallon	9,031,501	9,866,340	(a)
Straits Settlements—				
Tar	Long ton	867	744	880
India—				
Ammonium sulphate	Long ton	17,567	16,131	12,133
Australia—				
New South Wales (e)—				
Tar	Gallon	13,244,818	10,335,587	12,932,361
Ammonium sulphate	Long ton	17,617	7,096	8,169
Liquid Ammonia	£ (Australian)	9,980	4,196	(a)
Victoria (e)—				
Tar	Gallon	7,085,088	5,027,134	5,356,114
Ammonium sulphate	Long ton	2,689	965	1,875
Queensland—				
Tar (e)	Gallon	1,093,546	1,030,193	984,913
South Australia (e)—				
Tar	Gallon	1,984,654	1,716,415	1,681,727
Ammonium sulphate	Long ton	1,113	761	873

(a) Information not available.

(b) Actual ammonium sulphate production in long tons was:—1929, 828,832; 1930, 670,690; 1931, 513,558.

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

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Australia (Cont.)				
Western Australia—				
Tar	Gallon	462,605	329,951	340,538
Tasmania (e)—				
Tar	Gallon	205,300	261,532	217,106
Ammonium sulphate	Long ton	44	63	76
New Zealand (c)—				
Tar (gas-works)	Gallon	2,244,847	2,424,748	2,535,708
FOREIGN COUNTRIES				
Austria—				
Ammonium sulphate ..	Long ton	5,658	6,900	(a)
Belgium—				
Tar	Long ton	191,359	176,321	170,000
Ammonium sulphate ..	do.	83,992	71,404	66,000
Benzol	do.	41,435	48,246	30,000
Pitch	do.	118,000	108,000	103,000
Naphthalene	do.	12,000	11,000	10,000
Creosote	do.	84,000	79,000	74,000
Czechoslovakia—				
Tar	Long ton	108,187	107,136	87,441
Pitch	do.	2,676	1,174	237
Ammonium sulphate ..	do.	38,441	35,143	28,499
Naphthalene	do.	1,951	1,582	858
Benzol	do.	36,982	32,570	25,903
Liquid ammonia	do.	53	—	—
Carbolic acid	do.	265	244	208
Denmark—				
Tar	Long ton	22,645	27,000	28,000
Finland—				
Gas-works—				
Tar	Long ton	2,633	2,335	(a)
Benzol	do.	220	159	(a)
Ammonia	do.	129	145	(a)
France—				
Tar	Long ton	546,701	586,000	564,468
Pitch	do.	161,000	(a)	(a)
Ammonium sulphate ..	do.	134,812	132,000	(a)
Benzol	do.	88,117	80,100	(a)
Naphthalene	do.	17,146	(a)	(a)
Saar—				
Tar	Long ton	125,000	138,000	107,890
Ammonium sulphate (coke ovens)	do.	31,673	29,100	22,003
Benzol	do.	30,695	35,000	28,750

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Germany—				
Tar and pitch	Long ton	1,597,139	1,394,558	(a)
Ammonium sulphate and other ammoniacal salts	do.	523,630	448,307	(a)
Benzol	do.	380,182	330,960	240,000
Italy—				
Tar	Long ton	28,127	30,348	29,537
Ammonium sulphate (d) ..	do.	9,844	9,671	8,946
Benzol (d)	do.	5,806	5,911	6,473
Netherlands—				
Ammonium sulphate ..	Long ton	58,500	148,000	(a)
Pitch	do.	45,000	54,000	(a)
Benzol (estimated) ..	do.	20,000	20,000	20,000
Tar (estimated)	do.	100,000	100,000	100,000
Norway—				
Tar	Long ton	5,573	5,718	(a)
Poland—				
Tar	Long ton	86,496	88,377	(a)
Ammonium sulphate ..	do.	35,574	33,100	(a)
Benzol	do.	22,706	23,568	(a)
Naphthalene	do.	1,547	2,921	(a)
Portugal—				
Ammonium sulphate ..	Long ton	8	(a)	(a)
Russia (years ended Sept. 30)—				
Tar	Long ton	106,955	112,288	(a)
Ammonium sulphate ..	do.	19,023	9,731	(a)
Liquid ammonia	do.	5,354	7,394	(a)
Benzol (crude)	do.	30,775	(a)	(a)
Spain (incomplete figures)—				
Tar	Long ton	44,810	43,953	25,959
Pitch	do.	6,619	6,101	(a)
Ammonium sulphate ..	do.	25,155	17,907	(a)
Benzol	do.	10,739	7,498	(a)
Naphthalene	do.	745	844	(a)
Creosote	do.	6,642	6,311	(a)

(a) Information not available.

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

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

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

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Sweden—				
Tar	Long ton	23,057	24,684	(a)
Ammonium sulphate ..	do.	4,532	4,570	(a)
Benzol	do.	2,153	2,131	(a)
Switzerland—				
Tar (gas-works)	Long ton	26,847	26,857	25,975
Ammonium sulphate ..	do.	524	(a)	(a)
Algeria—				
Tar	Long ton	4,263	(a)	(a)
Ammonium sulphate ..	do.	560	(a)	(a)
Benzol	Gallon	107	(a)	(a)
Mexico—				
Tar	Gallon	(a)	2,000,000	(a)
Creosote	do.	(a)	1,500,000	(a)
Benzol	do.	(a)	500,000	(a)
United States (coke ovens only)—				
Tar	Gallon	567,386,972	502,071,608	375,713,410
Pitch	Long ton	78,713	94,941	35,260
Sulphate equivalent of ammonia produced ..	do.	764,477	686,627	507,130
Benzol	Gallon	20,787,109	15,952,425	12,310,248
Motor fuel	do.	88,269,802	84,885,577	51,633,354
Naphthalene	Long ton	8,822	5,643	3,403
Toluol	Gallon	15,286,079	9,861,002	9,860,777
Solvent naphtha	do.	5,942,593	3,398,562	3,143,354
Crude light oils (b) ..	do.	167,161,689	148,604,960	102,107,623
Creosote	do.	20,434,033	21,399,902	13,576,332
Phenol	do.	70,569	114,143	78,414
Chile—				
Tar	Gallon	1,214,898	1,218,831	(a)
Japan—				
Tar	Long ton	86,200	(a)	(a)

(a) Information not available.

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

EXPORTS OF COAL, COKE AND BY-PRODUCTS*
(Domestic Produce)

Exporting Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom—				
Anthracite—				
small and sized	Long ton	3,115,485	2,969,371	2,373,143
large	do.	1,101,841	1,131,257	1,033,311
Bituminous—				
small and sized	do.	17,428,593	16,166,440	13,498,094
unscreened	do.	15,708,525	14,537,969	10,350,284
large	do.	22,912,174	20,069,028	15,494,908
bunkers	do.	16,390,933	15,616,691	14,609,545
Coke	do.	2,903,837	2,462,736	2,399,267
Manufactured fuel	do.	1,230,566	1,006,431	760,179
do. (bunkers)	do.	795	726	352
Tar and pitch	do.	401,000	351,117	368,555
Heavy coal-tar oils	Gallon	35,306,016	27,352,752	14,700,598
Naphthalene	Long ton	4,100	4,963	4,669
Anthracene	do.	1	30	1
Carbolic acid	} do.	10,737	1,858	3,206
Cresylic acid			(b) 1,401,251	(b) 936,582
Benzol	Gallon	2,362,051	420,309	396,812
Toluol	do.	83,793	35,634	4,741
Naphtha	do.	66,241	47,718	42,681
Irish Free State—				
Coke	Long ton	20,652	21,531	26,080
Tar and pitch	do.	615	488	144
Malta—				
Coal (bunkers on merchant ships) (c)	Long ton	156,165	100,799	74,570
Coke	do.	1,399	642	1,106
Kenya and Uganda—				
Coal (bunkers) (c)	Long ton	3,746	4,448	4,010
Coke	do.	—	2	—
Nigeria—				
Coal	Long ton	41,838	45,812	24,813
Sierra Leone—				
Coal (bunkers) (c)	Long ton	37,582	37,027	25,674

(b) Gallons.

(c) Foreign coal (see imports).

* For ammonium sulphate, etc., see Nitrates, pages 238-248.

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

Exporting Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Southern Rhodesia—				
Coal	Long ton	439,330	454,071	204,823
Coke and patent fuel ..	do.	93,067	94,132	37,430
Union of South Africa—				
Coal	Long ton	1,635,937	1,254,757	936,742
do. (bunkers) ..	do.	1,549,133	1,306,722	907,387
Coke and patent fuel ..	do.	9,961	21,315	14,229
Canada—				
Coal	Long ton	723,954	530,795	300,268
Lignite	do.	28,699	26,805	21,028
Coke	do.	47,438	48,196	33,070
Tar and pitch	Gallon	3,069,247	4,555,899	2,880,018
Creosote oil	do.	1,025,223	1,132,014	576,477
West Indies—				
Barbados—				
Coal (bunkers) (c) ..	Long ton	22,083	9,224	7,148
St. Lucia—				
Coal (bunkers) (c) ..	Long ton	43,047	31,306	16,248
Trinidad and Tobago—				
Coal (bunkers) (c) ..	Long ton	68,840	47,505	25,765
Aden—				
Coal	Long ton	138	65	112
British Borneo—				
Brunei—				
Coal	Long ton	—	—	57
Sarawak—				
Coke	Long ton	5	26	20
State of North Borneo—				
Coal	Long ton	46,090	35,839	20,595
British India—				
Coal	Long ton	724,329	459,906	438,963
do. (bunkers) (d) ..	do.	933,000	828,000	(b) 468,316
Coke	do.	2,281	1,282	2,286
British Malaya (including re-exports)—				
Coal	Long ton	2,148	5,474	4,223
do. (bunkers)	do.	563,066	436,958	363,578
Coke	do.	909	476	955
Tar	do.	408	253	182

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

Exporting Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Ceylon—				
Coal (bunkers) (c) ..	Long ton	506,859	352,360	325,152
Australia (including re-exports)—				
Coal	Long ton	292,442	292,159	370,728
do. (bunkers) (e) ..	do.	845,210	507,349	509,303
Coke	do.	7,073	1,460	878
Tar and pitch	do.	1,260	1,132	921
Benzene and benzol ..	Gallon	100,801	68,281	—
New Zealand—				
Coal	Long ton	49,627	18,832	5,134
do. (bunkers)	do.	160,466	107,286	43,200
Coke	do.	54	60	3
Tar	do.	249	1,026	178
FOREIGN COUNTRIES				
Austria—				
Coal	Long ton	7,043	905	964
Brown coal	do.	8,129	4,711	2,990
Coke	do.	26,568	43,029	51,595
Briquettes	do.	366	82	158
Tar and pitch	do.	10,984	9,733	11,828
Tar oils	do.	3,777	4,456	3,976
Naphthalene	do.	481	304	652
Carbolic acid	do.	12	21	13
Carbolineum, creolin, etc.	do.	48	41	27
Belgium-Luxemburg E.U.—				
Coal	Long ton	3,419,989	3,485,684	4,524,289
do. (bunkers)	do.	310,304	413,961	857,190
Brown coal	do.	73	588	368
Coke	do.	726,440	780,789	848,926
Briquettes	do.	616,918	565,863	747,113
do. (bunkers)	do.	113,828	134,822	178,000
Anthracene	do.	—	39	443
Tar and pitch	do.	25,014	28,320	54,418
Naphthalene	do.	6,494	7,106	7,666
Aniline oil and salts ..	do.	82	146	124
Distillates	do.	95,075	70,538	86,879

(b) July to December 1931.

(c) Foreign coal (see imports).

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

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

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

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Bulgaria—				
Coal and coke	Long ton	10,653	8,360	1,279
Czechoslovakia—				
Coal	Long ton	1,824,999	1,678,570	1,626,697
Brown coal	do.	3,013,394	2,340,103	1,929,420
Coke	do.	870,014	575,054	396,037
Briquettes	do.	158,395	86,759	84,005
Tar and pitch	do.	14,024	13,920	39,549
Anthracene	do.	348	—	—
Benzol, etc.	do.	26,492	21,969	14,871
Crude naphthalene ..	do.	1,469	1,004	189
Crude carbolic acid ..	do.	2,088	7,667	9,658
Cresol	do.	444	238	805
Aniline oil and salts ..	do.	23	12	40
Denmark—				
Tar and pitch	Long ton	1,042	1,232	2,246
France—				
Coal	Long ton	4,957,618	4,002,696	3,449,174
Coke	do.	461,439	346,194	417,762
Briquettes	do.	362,425	235,874	202,564
Coal, coke and briquettes—				
Bunkers (domestic produce)	do.	145,661	152,223	(a)
Bunkers (foreign produce)	do.	1,424,658	1,200,319	(a)
Tar and pitch	do.	43,405	28,320	45,851
Benzol, etc	do.	16,310	21,015	24,299
Naphthalene, etc. ..	do.	3,038	2,008	2,902
Carbolic acid, etc. ..	do.	269	246	123
Germany—				
Coal	Long ton	26,051,618	23,693,956	21,760,094
do. (bunkers for foreign ships)	do.	294,690	304,258	208,699
Brown coal	do.	28,623	19,618	28,506
Coke	do.	10,485,033	7,845,002	6,241,217
Coal briquettes	do.	772,133	883,090	885,201
Brown-coal briquettes ..	do.	1,909,288	1,678,509	1,921,687
Tar and pitch	do.	339,371	335,585	273,828
Naphthalene	do.	17,741	15,450	17,442
Anthracene	do.	1,086	1,088	376

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

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Germany (Cont.)—				
Carbolic acid	Long ton	1,377	1,147	469
Cresol	do.	3,791	2,996	3,562
Light coal-tar oils, etc. ..	do.	6,485	3,127	2,033
Heavy coal-tar oils, etc.	do.	133,516	144,646	116,210
Hungary—				
Coal	Long ton	110,241	103,261	94,919
Brown coal	do.	288,100	272,091	275,187
Coke	do.	1,861	1,355	2,154
Briquettes	do.	1,741	969	374
Tar and pitch	do.	147	225	78
Benzols	do.	22	43	28
Italy—				
Coal, etc.	Long ton	(b)28,067	(c) 42,593	(c) 48,979
Coke	do.	(b)1,970	(c) 1,776	(c) 1,694
Tar and tar oils	do.	1,905	1,503	4,594
Naphthalene	do.	68	57	61
Benzol, toluol and xylol..	do.	45	52	68
Carbolic acid	do.	11	15	20
Jugoslavia—				
Bituminous coal	Long ton	2,369	526	926
Lignite	do.	71,733	61,367	51,893
Brown coal	do.	57,546	47,993	32,151
Coke	do.	586	226	190
Briquettes	do.	73	—	—
Tar and pitch	do.	35	12	—
Creosote	do.	7	4	2
Benzol	do.	64	17	6
Latvia—				
Coal	Long ton	2,127	641	893
Coke	do.	450	108	73
Tar	do.	29	49	—
Netherlands—				
Coal	Long ton	3,564,046	3,837,926	4,028,443
do. (bunkers)	do.	3,017,304	2,779,170	2,460,795
Coke	do.	1,909,651	2,046,702	2,181,776
Briquettes	do.	102,968	190,824	456,854

(a) Information not available.

(b) In addition coal and coke shipped as bunkers amounted to 134,576 and 10 long tons respectively.

(c) Including bunkers—foreign ships only.

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

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Netherlands (Cont.)				
Brown-coal briquettes ..	Long ton	28,393	14,684	10,344
Tar and pitch	do.	12,184	11,895	9,202
Creosote	do.	13,495	13,442	15,471
Naphthalene	do.	2,150	1,912	1,479
Anthracene	do.	1,975	2,011	2,840
Carbolic acid	do.	79	48	74
Benzol	do.	12,876	16,616	17,076
Toluol and xylol ..	do.	835	723	1,551
Naphtha	do.	391	280	118
Norway—				
Tar	Long ton	720	278	(a)
Creosote	do.	92	1	(a)
Poland—				
Bituminous coal ..	Long ton	13,691,897	12,267,748	13,600,134
Briquettes	do.	9,102	2,597	4,331
Coke	do.	147,492	193,431	241,898
Tar and pitch	do.	4,539	1,001	5,528
Naphthalene	do.	2,202	822	508
Anthracene, etc. ..	do.	1,269	755	1,053
Carbolic acid, etc. ..	do.	670	611	379
Benzol	do.	14,761	15,856	14,314
Creosote, etc.	do.	326	440	590
Portugal—				
Coal	Long ton	835	1,183	233
do. (bunkers)	do.	237,925	314,254	231,785
Tar and pitch	do.	85	52	44
Roumania—				
Anthracite	Long ton	(a)	37,274	(a)
Bituminous coal and coke	do.	(a)	32	(a)
Brown coal	do.	(a)	44	(a)
Tar and pitch	do.	(a)	11,602	(a)
Benzol	do.	(a)	29	(a)
Russia				
Anthracite	Long ton	601,635	801,528	663,639
Other coal	do.	715,191	1,026,299	984,505
Coke	do.	622	587	216
Tar	do.	25,645	26,772	27,574

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

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Spain (including re-exports)—				
Coal	Long ton	69,598	19,029	61
Coke	do.	35	93	141
Briquettes	do.	—	846	10
Tar and pitch	do.	1	479	182
Spitzbergen—				
Coal	Long ton	235,918	192,442	203,086
Sweden—				
Anthracite	Long ton	14	8	69
Bituminous coal	do.	189	180	158
Coke	do.	2,284	1,725	3,074
Tar, pitch, etc.	do.	8,094	13,726	13,790
Benzol oils	do.	842	1,444	675
Carbolineum	do.	17	(a)	(a)
Naphthalene	do.	36	(a)	(a)
Switzerland—				
Coal	Long ton	48	7	335
Coke	do.	1,182	975	1,419
Briquettes	do.	25	1	208
Tar and pitch	do.	367	2,226	2,245
Creosote, etc.	do.	633	808	404
Naphthalene, etc.	do.	588	303	244
Algeria—				
Coal	Long ton	3,897	8,360	} 17,543
Coke	do.	4,050	3,071	
Briquettes	do.	7,691	10,858	
Tar	do.	151	814	
Belgian Congo—				
Coal and briquettes	Long ton	16	544	250
Canary Islands—				
Coal (bunkers)	Long ton	499,403	376,239	(a)
Cape Verde Islands—				
Coal (bunkers)	Long ton	276,093	(a)	124,502

(a) Information not available.

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

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Egypt—				
Coke	Long ton	779	749	1,029
Mozambique—				
Coal	do.	1,793	2,757	2,961
Senegal—				
Coal (bunkers)	Long ton	214,398	146,379	106,181
St. Pierre and Miquelon—				
Coal (bunkers)	Long ton	(a)	13,000	(a)
Netherlands, West Indies—				
Coal (bunkers)	Long ton	22,856	(a)	(a)
Coke	do.	752	(a)	(a)
United States—				
Anthracite	Long ton	3,041,401	2,278,267	1,587,775
Bituminous	do.	15,561,873	14,176,256	10,827,053
do. (bunkers)	do.	3,827,249	3,122,036	1,959,901
Coke	do.	1,105,388	896,309	673,484
Coal-tar-pitch coke	do.	11,594	11,878	(a)
Tar and pitch	do.	34,032	46,601	66,523
Benzol	Gallon	27,788,650	37,166,941	18,217,617
Creosote	do.	(a)	(a)	1,560,454
Argentina—				
Coal (bunkers) (c)	Long ton	134,246	93,198	79,272
Brazil—				
Coal	Long ton	157	19	27
Chile—				
Coal	Long ton	17,729	51,605	15,956
do. (bunkers)	do.	343,003	93,359	(a)
Briquettes	do.	2,574	945	—
Coke	do.	149	56	28
Uruguay—				
Coal	Long ton	130,875	91,008	59,039
China—				
Coal	Long ton	3,475,051	2,988,301	2,995,419
do. (bunkers)	do.	648,230	516,880	587,604
Coke	do.	13,254	10,390	8,002
Benzol	Gallon	—	—	281,087

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

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)				
Formosa—				
Coal	Long ton	122,412	72,641	(a)
do. (bunkers)	do.	56,534	39,142	(a)
Coal dust	do.	266,536	311,151	(a)
do. (bunkers)	do.	124,243	133,696	(a)
Coke	do.	850	649	(a)
Tar	do.	213	120	(a)
French Indo-China—				
Coal	Long ton	1,299,724	1,266,598	1,228,445
Lignite	do.	5	3	—
Coke	do.	15	167	120
Briquettes	do.	29,665	36,119	23,538
Tar	do.	22	16	20
Japan—				
Coal	Long ton	2,011,402	2,097,269	1,515,808
do. (bunkers)	do.	(a)	(a)	(a)
Tar, pitch, etc.	do.	17,229	15,987	19,219
Korea—				
Coal	Long ton	285,917	240,057	315,697
Briquettes	do.	2,097	1,536	299
Netherlands East Indies—				
Coal	Long ton	489,207	470,596	381,100
do. (bunkers)	do.	110,810	144,394	58,507
Persia (f) (g)—				
Coal, coke and peat	Long ton	—	18	11
Benzol	do.	(a)	(a)	56
Turkey—				
Coal and coke	Long ton	(a)	153,367	184,851

(a) Information not available.

(c) Foreign coal; excluded from imports.

(f) Including re-exports.

(g) Years ended March 21 of year stated.

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

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom—				
Coal	Long ton	20,950	17,089	21,536
Coke	do.	809	673	502
Manufactured fuel	do.	573	245	332
Tar and pitch	do.	1,995	2,312	1,598
Heavy coal-tar oils	Gallon	111,523	89,067	420,936
do. (additional)	Long ton	—	—	2,040
Naphthalene	do.	1,396	1,276	466
Anthracene	do.	462	402	278
Carbolic acid	do.	32	9	11
Benzol	Gallon	4,507,176	3,808,630	3,100,934
Naphtha	do.	9,167	(b) 115	—
Irish Free State (total imports)—				
Anthracite	Long ton	35,796	36,648	31,078
Bituminous coal	do.	2,425,333	2,462,883	2,382,409
Coke	do.	17,799	23,007	18,903
Tar and pitch	do.	16,851	11,836	8,040
Creosote etc.	do.	630	183	267
Malta—				
Coal, coke etc. (c)	Long ton	178,948	116,701	90,716
Anglo-Egyptian Sudan—				
Coal	Long ton	122,004	117,760	84,030
Coke	do.	786	3,172	501
Patent fuel	do.	8,123	1,524	2,286
Tar and pitch	do.	191	80	164
Gambia—				
Coal, coke and patent fuel	Long ton	3,600	2,040	2,052
Gold Coast—				
Coal	Long ton	72,252	56,624	23,811
Coke	do.	249	198	900
Patent fuel	do.	338	166	500
Kenya and Uganda—				
Coal	Long ton	91,226	105,756	66,539
Coke	do.	330	321	204
Tar, pitch and bitumen	do.	1,360	2,093	1,592
Creosote, etc.	Gallon	35,971	52,781	23,182

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

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Mauritius—				
Coal	Long ton	34,906	47,709	(a)
Coke	do.	641	301	(a)
Patent fuel	do.	13,911	5,500	(a)
Tar	do.	57	41	(a)
Nigeria—				
Coal	Long ton	20,852	27,466	23,811
Coke and patent fuel	do.	731	1,196	1,400
Northern Rhodesia—				
Coal	Long ton	135,475	163,538	119,306
Coke	do.	3,860	524	1,300
Nyasaland—				
Coal and coke	Long ton	3,131	4,268	3,623
Seychelles—				
Coal	Long ton	—	393	298
Sierra Leone—				
Coal (c)	Long ton	42,315	42,763	36,100
Coke	do.	32	34	30
Southern Rhodesia—				
Coal and coke	Long ton	132	180	88
Tar, pitch, etc.	do.	426	164	230
South West Africa—				
Coal	Long ton	15,621	14,768	1,674
Coke	do.	532	1,573	4,746
Tanganyika Territory—				
Coal	Long ton	17,542	18,499	50,586
Coke	do.	148	51	299
Patent fuel	do.	23	16	—
Creosote	Gallon	—	1,710	1,188
Union of South Africa—				
Coal, coke and patent fuel	Long ton	3,771	2,737	38
Benzine and benzol	Gallon	36,370	5,220	15,523

(a) Information not available.

(b) Excess of re-exports.

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

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

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (<i>Cont.</i>)				
Union of South Africa (<i>Cont.</i>)—				
Tar and pitch	Long ton	1,442	1,211	470
Naphthalene	do.	253	168	183
Creosote	Gallon	222,545	266,816	106,486
Zanzibar—				
Coal	Long ton	4,877	5,837	7,777
Canada—				
Anthracite	Long ton	3,589,212	3,800,080	2,821,171
Bituminous coal	do.	12,238,877	12,630,419	8,640,953
Brown coal	do.	12,596	16,674	5,723
Coal (bunkers)	do.	413,031	314,183	245,012
Coke	do.	1,095,737	947,741	611,668
Tar and pitch	Gallon	6,429,566	4,965,646	1,592,243
Naphthalene	Long ton	480	495	330
Carbolic acid, etc.	Gallon	2,398,042	2,358,516	2,089,020
Newfoundland (years ended June 30)—				
Anthracite	Long ton	12,618	13,823	12,089
Other coal	do.	359,855	420,178	326,046
Coke	do.	673	948	584
British Guiana—				
Coal	Long ton	15,166	7,108	4,569
Coke	do.	80	83	74
Patent fuel	do.	4,019	4,000	2,462
British West Indies—				
Bahamas—				
Coal	Long ton	272	609	613
Barbados—				
Coal (<i>c</i>)	Long ton	19,432	11,964	(<i>a</i>)
Bermuda—				
Coal	Long ton	5,611	4,737	11,729
Jamaica—				
Coal	Long ton	112,887	86,103	80,843
Coke	do.	256	23	51
Leeward Islands (<i>d</i>)—				
Coal, coke, etc.	Long ton	2,073	411	1,806
St. Lucia—				
Coal (<i>c</i>)	Long ton	37,835	34,780	4,575
St. Vincent—				
Coal	Long ton	31	20	27

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

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
British West Indies (Cont.)—				
Trinidad and Tobago—				
Coal (c)	Long ton	83,489	60,018	34,861
Coke	do.	43	21	48
Patent fuel	do.	1,775	1,625	2,951
British Honduras—				
Coal and coke	Long ton	885	1,248	(a)
Aden (total imports)—				
Coal (e)	Long ton	134,693	44,173	35,006
Coke	do.	30	90	5
Tar and pitch	do.	70	28	19
Naphthalene	do.	223	130	104
British Borneo—				
State of North Borneo—				
Coal and coke	Long ton	22	23	8
British India (total imports)—				
Coal	Long ton	204,529	198,327	76,086
Coke	do.	14,031	18,702	11,949
Coal and coke on govern- ment account	do.	199	51	—
Tar and pitch	do.	2,581	1,913	2,689
Naphthalene	do.	445	628	346
Carbolic acid	do.	38	32	38
British Malaya (total im- ports)—				
Coal (c)	Long ton	830,603	685,435	550,225
Coke	do.	7,821	6,006	5,081
Tar	do.	2,137	2,037	1,616
Ceylon—				
Coal (c)	Long ton	812,545	566,961	494,268
Coke	do.	1,109	692	756
Cyprus—				
Coal	Long ton	8,394	9,697	10,607
Tar and pitch	do.	249	6	40
Palestine (total imports)—				
Anthracite	Long ton	12,352	21,404	20,412
Other coal	do.	16,593	22,556	19,044
Briquettes	do.	4,366	4,442	3,724
Tar and pitch	do.	41	75	77

(a) Information not available.

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

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

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

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

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Australia—				
Coal	Long ton	519,818	330,450	737
Coke	do.	25,608	3,897	618
Tar and pitch	do.	61	538	403
Naphthalene	do.	250	197	134
Carbolic acid	do.	65	41	25
Benzene and benzol	Gallon	—	43,892	838
Tar oil	do.	43,913	73,448	30,039
Fiji—				
Coal	Long ton	25,899	27,430	21,213
Coke	do.	427	578	151
Tar and pitch	£	2,502	1,555	1,108
New Zealand—				
Coal	Long ton	210,966	157,943	179,060
Coke	do.	1,473	825	186
Tar and pitch	Long ton	1,186	1,073	5,688
Carbolic acid	do.	9	9	(a)
Benzol, toluol, etc.	Gallon.	4,953	7,301	4,860
Creosote (i)	£	187	270	(a)
Naphthalene (i)	£	839	884	333
Solomon Islands—				
Coal	Long ton	853	1,979	1,328
Western Samoa—				
Coal	£	520	180	53
FOREIGN COUNTRIES				
Austria—				
Coal	Long ton	5,218,696	3,862,490	3,769,479
Brown coal	do.	520,586	350,567	348,357
Coke	do.	736,216	482,071	372,887
Briquettes	do.	77,591	51,222	60,784
Carbolic acid	do.	623	293	262
Tar and pitch	do.	1,215	1,061	826
Naphthalene	do.	22	14	21
Carbolineum, creolin, etc.	do.	2	5	1
Tar oils	do.	2,404	2,268	2,376
Belgium-Luxemburg E.U.—				
Coal	Long ton	11,195,492	10,151,229	9,377,948
Brown coal	do.	175,176	165,469	176,088
Coke	do.	3,350,862	2,900,104	2,119,833

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)				
Belgium-Luxemburg E.U. (<i>Cont.</i>)—				
Briquettes	Long ton	181,174	176,728	240,434
Tar and pitch	do.	128,093	121,651	140,960
Naphthalene	do.	5,358	6,694	7,693
Anthracene	do.	1,400	764	1,303
Distillates	do.	7,544	8,809	38,532
Bulgaria—				
Coal and coke	Long ton	8,779	9,295	4,091
Carbolic acid	do.	5	8	6
Naphthalene	do.	406	220	332
Creosote, etc.	do.	1,758	2,636	3,631
Czechoslovakia—				
Coal	Long ton	2,293,840	1,852,929	1,801,967
Brown coal	do.	105,533	121,379	116,887
Coke	do.	379,442	212,013	230,599
Briquettes	do.	37,101	25,399	23,446
Tar and pitch	do.	12,564	11,970	17,015
Benzol, etc.	do.	144	305	458
Distillates	do.	94	59	79
Crude naphthalene	do.	5	—	—
Crude carbolic acid	do.	80	124	170
Cresol	do.	49	105	39
Denmark—				
Coal	Long ton	3,947,247	3,638,304	3,603,349
Coke	do.	1,024,000	924,414	1,070,207
Briquettes	do.	340,125	267,376	338,319
Tar and pitch	do.	7,520	8,374	13,376
Benzol	do.	792	999	945
Carbolic acid	do.	9	13	11
Estonia—				
Coal	Long ton	100,265	90,864	90,978
Coke	do.	2,548	3,232	2,380
Tar	do.	858	879	693
Naphthalene	do.	10	11	17
Carbolic acid	do.	1	2	3
Benzol	do.	4	1	3

(i) £ New Zealand.

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Finland—				
Anthracite	Long ton	600	1,727	612
Bituminous	do.	956,920	900,583	863,560
Brown coal, briquettes, etc.	do.	21	1,380	5,334
Coke	do.	193,942	160,262	186,151
Tar and pitch	do.	3,552	1,463	1,304
Carbolic acid, creosote and cresol	do.	1,262	1,119	1,753
Naphthalene	do.	89	77	83
Benzol	do.	109	1,794	4,223
Carbolineum	do.	172	150	136
France—				
Coal	Long ton	23,295,963	24,375,590	22,721,423
Coke	do.	5,364,532	4,493,401	3,343,921
Briquettes	do.	1,277,373	1,358,531	1,546,397
Tar and pitch	do.	523,823	496,447	481,889
Naphthalene, etc.	do.	4,087	4,234	2,096
Carbolic acid, etc.	do.	984	962	790
Benzol	do.	4,644	4,567	7,319
Germany—				
Coal	Long ton	7,778,124	6,823,942	5,681,301
Brown coal	do.	2,744,132	2,181,525	1,767,942
Coke	do.	430,645	418,119	648,586
Coal briquettes	do.	21,807	31,977	58,712
Brown-coal briquettes	do.	143,477	90,048	83,026
Tar and pitch	do.	39,389	18,875	50,982
Naphthalene	do.	3,586	1,737	1,073
Anthracene	do.	1,611	181	39
Carbolic acid	do.	2,051	1,818	984
Cresol	do.	909	570	836
Light coal-tar oils, etc.	do.	162,469	167,120	136,670
Heavy coal-tar oils, etc. . . .	do.	10,147	7,754	3,426
Greece—				
Coal	Long ton	773,036	814,192	765,663
Naphthalene	do.	552	505	579
Pitch	do.	321	327	245
Hungary—				
Coal	Long ton	1,255,619	834,289	596,099
Brown coal	do.	22,869	15,356	13,226
Coke	do.	551,653	367,533	244,805

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Hungary (Cont.)—				
Briquettes	Long ton	636	237	92
Tar and pitch	do.	10,062	9,076	15,543
Benzols	do.	3,818	4,377	1,563
Carbolic acid and cresol	do.	17	11	16
Anthracene, etc... ..	do.	175	90	89
Iceland—				
Coal	Long ton	154,901	(a)	(a)
Coke	do.	1,032	(a)	(a)
Italy—				
Anthracite	Long ton	1,456,828	1,231,604	1,222,499
Bituminous coal	do.	11,551,795	10,480,043	8,734,688
Lignite	do.	63,729	52,501	45,447
Coke	do.	1,054,698	715,211	709,596
Briquettes	do.	181,083	160,144	199,427
Tar and tar oils	do.	8,767	18,864	19,348
Carbolic acid	do.	662	555	591
Naphthalene	do.	2,713	1,538	1,507
Benzol, toluol and xylol..	do.	7,224	8,114	9,769
Jugoslavia—				
Anthracite	Long ton	60,498	49,437	41,484
Bituminous coal	do.	315,166	280,970	231,675
Lignite	do.	59	89	30
Brown coal	do.	31,022	14,724	1,374
Coke	do.	242,332	190,995	168,292
Briquettes	do.	4,418	38,304	205
Tar	do.	3,328	2,950	1,873
Light oils	do.	539	843	143
Heavy oils	do.	1,997	6,873	11,517
Naphthalene	do.	346	297	426
Latvia—				
Coal	Long ton	577,739	598,926	457,022
Coke	do.	50,022	51,717	63,477
Briquettes	do.	19,255	330	10,639
Tar and pitch	do.	4,331	3,331	2,570
Carbolic acid	do.	6	35	6
Naphthalene	do.	21	49	34
Benzol	do.	—	2	44
Creosote, etc.	do.	181	2,168	1,449

(a) Information not available.

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Lithuania—				
Coal	Long ton	235,516	203,258	232,000
Coke	do.	15,458	11,382	19,096
Briquettes	do.	12,996	7,482	8,326
Carbolic acid	do.	495	11	—
Naphthalene	do.	17	11	21
Tar	do.	1,783	2,063	537
Netherlands—				
Coal	Long ton	9,466,497	8,969,309	8,366,474
Brown coal	do.	—	54	32
Coke	do.	364,965	284,706	310,678
Briquettes	do.	322,114	325,298	392,630
Brown-coal briquettes	do.	182,725	162,283	188,742
Tar and pitch	do.	10,343	20,473	9,511
Creosote	do.	1,067	20,291	6,852
Naphthalene	do.	400	340	333
Carbolic acid	do.	148	105	96
Benzol	do.	314	2,328	385
Toluol and xylol	do.	164	111	126
Naphtha	do.	238	132	45
Norway—				
Coal	Long ton	2,385,342	2,231,000	1,856,768
Coke	do.	442,101	380,338	(a)
Tar and pitch, etc.	do.	5,373	3,332	(a)
Creosote, etc.	do.	3,592	2,438	(a)
Poland—				
Anthracite	Long ton	290	128	2,807
Bituminous coal.. .. .	do.	59,541	31,659	42,096
Brown coal	do.	182	49	296
Coke	do.	229,291	114,772	68,507
Briquettes	do.	21,093	14,679	17,422
Tar and pitch	do.	17,649	8,320	3,232
Creosote, etc.	do.	1,525	1,423	158
Benzol	do.	2,280	1,087	368
Carbolic acid, etc.	do.	61	24	27
Anthracene, etc... .. .	do.	189	39	52
Portugal—				
Coal and coke	Long ton	1,120,737	1,216,267	1,082,694
Briquettes	do.	7,944	580	10,510
Tar and pitch	do.	636	3,348	1,573
Carbolic acid	do.	2	2	3
Naphthalene	do.	112	83	94

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Roumania—				
Anthracite	Long ton	(a)	1,349	(a)
Bituminous coal and coke	do.	(a)	163,108	(a)
Brown coal	do.	(a)	207	(a)
Briquettes	do.	(a)	592	(a)
Naphthalene	do.	(a)	245	(a)
Benzol	do.	(a)	114	(a)
Tar and pitch	do.	(a)	862	(a)
Carbolineum, etc. ..	do.	(a)	7,909	(a)
Carbolic acid	do.	(a)	63	(a)
Russia—				
Coal	Long ton	64,938	62,613	104,919
Coke and briquettes ..	do.	65	13	20
Pitch	do.	5	—	—
Benzol, etc.	do.	1	10	19
Carbolic acid	do.	29	36	170
Cresol	do.	53	53	1
Spain (total imports)—				
Anthracite	Long ton	119,367	102,796	81,840
Bituminous coal	do.	1,606,137	1,278,829	933,938
Other coal	do.	13,496	6,691	354
Coke	do.	287,003	243,462	147,906
Briquettes	do.	24,804	22,465	16,659
Benzol, toluol, xylol, etc.	do.	33	67	580
Cresol and carbolic acid..	do.	40	24	55
Creosote	do.	1,301	329	384
Tar and pitch	do.	64,607	45,009	61,070
Naphthalene, etc. ..	do.	3	4	—
Sweden—				
Anthracite	Long ton	71,915	74,612	74,244
Bituminous coal.. ..	do.	4,843,564	4,627,923	4,386,783
Coke	do.	1,245,125	1,172,769	1,416,417
Briquettes	do.	15,998	7,320	11,039
Tar, pitch, etc.	do.	4,452	4,002	2,805
Benzol oils	do.	118	1,043	297
Carbolineum	do.	57	(a)	(a)
Naphthalene	do.	134	(a)	(a)
Carbolic acid, etc. ..	do.	5,348	5,134	8,166
Switzerland—				
Coal	Long ton	2,032,973	1,954,504	1,925,038
Lignite	do.	390	619	311
Coke	do.	787,185	652,014	757,194
Briquettes	do.	587,234	490,753	555,340
Tar and pitch	do.	24,984	40,261	33,943
Creosote, etc.	do.	1,197	1,006	1,329
Naphthalene, etc. ..	do.	7,306	7,601	7,217

(a) Information not available.

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

Importing Country and Description	Unit	1929	1930	1931	
FOREIGN COUNTRIES (Cont.)					
Algeria—					
Coal	Long ton	557,149	610,044	} 740,617	
Coke	do.	2,208	1,852		
Briquettes	do.	312,926	270,106		
Tar	do.	8,930	12,494		(a)
Benzol	do.	224	83		(a)
Angola—					
Coal	Long ton	31,680	42,444	(a)	
Belgian Congo—					
Coal	Long ton	300,462	245,621	69,003	
Coke	do.	91,377	74,132	37,219	
Briquettes	do.	66,935	76,772	37,648	
Cameroon (French)—					
Coal	Long ton	1,575	7,276	158	
Cape Verde Islands—					
Coal (c)	Long ton	312,829	161,478	140,071	
Dahomey—					
Coal	Long ton	4,974	3,700	4,193	
Tar	do.	60	59	(a)	
Egypt—					
Coal	Long ton	1,152,964	1,143,907	1,091,031	
Coke	do.	31,463	17,278	14,428	
Briquettes	do.	47,644	34,923	48,909	
Tar and pitch	do.	7,304	3,069	2,749	
Naphthalene	do.	118	109	144	
Carbolic acid	do.	11	(a)	(a)	
French Guinea—					
Coal, coke and briquettes	Long ton	24	49	2,610	
Tar	do.	16	11	(a)	
French Equatorial Africa—					
Coal	Long ton	817	2,136	1,518	
Tar	do.	42	44	(a)	
Ivory Coast—					
Coal, coke and briquettes	Long ton	1,883	2,666	243	
Tar	do.	25	67	(a)	
Madagascar—					
Coal and coke	Long ton	13,358	20,506	13,457	
Morocco—					
Coal	Long ton	173,203	170,332	171,805	
Coke	do.	4,470	5,566	2,691	
Tar and bitumen	do.	10,851	14,284	12,801	

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Mozambique—				
Coal	Long ton	152,608	116,531	114,226
Coke	do.	127	751	135
Tar and pitch	do.	217	128	127
Réunion—				
Coal	Long ton	6,082	5,583	6,775
Senegal—				
Coal, coke, etc. (c)	Long ton	284,096	239,983	163,749
Tar	do.	54	71	(a)
Togoland—				
Briquettes	Long ton	—	(a)	(a)
Tar	do.	92	(a)	(a)
Tunis—				
Coal	Long ton	223,995	232,056	160,158
Coke	do.	7,312	6,958	7,781
Briquettes	do.	22,008	26,258	15,546
Tar	do.	2,103	7,718	4,318
Cuba (b)—				
Coal	Long ton	575,432	(a)	(a)
Coke	do.	46,946	(a)	(a)
Creosote oil	do.	167	(a)	(a)
Tar	do.	156	(a)	(a)
Dominican Republic (b)—				
Coal	Long ton	8,373	9,986	(a)
French West Indies—				
Guadeloupe—				
Coal	Long ton	5,779	2,397	(a)
Martinique—				
Coal	Long ton	125,875	11,502	(a)
Coke	do.	70	160	(a)
Tar	do.	37	43	(a)
Guatemala—				
Coal	Long ton	820	(a)	(a)
Tar	do.	31	(a)	(a)
Costa Rica (total imports)—				
Coal	Long ton	7,761	(a)	(a)
Tar	do.	57	(a)	(a)

(a) Information not available.

(b) Total imports.

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

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Mexico—				
Coal	Long ton	63,850	49,704	19,984
Coke	do.	—	1,489	} 1,259
Benzol	do.	—	3	
St. Pierre and Miquelon—				
Coal	Long ton	(a)	7,000	(a)
Salvador—				
Coal and briquettes ..	Long ton	9,291	267	(a)
United States—				
Anthracite (b)	Long ton	434,975	602,511	569,599
Bituminous coal and lignite (b)	do.	442,160	215,076	177,089
Coke	do.	106,896	118,459	86,373
Tar and pitch	do.	3,472	3,535	4,356
Creosote oil	Gallon	66,083,813	55,768,189	30,737,417
Naphthalene	Long ton	15,628	12,351	14,142
Carbolic acid	do.	1,240	570	1
Argentina—				
Coal	Long ton	3,085,932	3,013,188	2,577,794
Coke	do.	39,914	30,988	22,452
Tar and pitch	do.	650	382	121
Naphthalene	do.	524	400	603
Carbolic acid	do.	265	235	149
Bolivia—				
Coal, coke and briquettes	Long ton	18,886	27,506	(a)
Brazil (total imports)—				
Coal	Long ton	2,034,696	1,718,253	1,115,888
Coke	do.	30,854	21,169	9,693
Briquettes	do.	222,594	171,853	139,610
Chile—				
Coal	Long ton	38,289	3,463	3,398
Coke	do.	22,049	13,073	13,073
Briquettes	do.	10,971	2,368	2,368
Creosote, etc.	do.	1	6	6
Naphthalene, etc. ..	do.	18	16	45
Carbolic acid	do.	606	1,157	—
Colombia—				
Coal and briquettes ..	Long ton	751	5,718	} (a)
Tar and pitch	do.	89	52	
Carbolic acid	do.	7	4	
Cresol, creolin, etc. ..	do.	444	377	
Ecuador—				
Coal, coke, etc.	Long ton	466	582	517
Creosote, etc.	do.	1	17	1
Creolin	do.	44	46	28

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
French Guiana—				
Coal	Long ton	64	16	10
Coke	do.	64	90	38
Peru—				
Coal	Long ton	36,881	36,046	29,779
Coke	do.	3,983	3,740	926
Tar	do.	270	171	113
Naphthalene	do.	14	11	17
Uruguay—				
Coal	Long ton	466,224	371,011	386,316
Tar and pitch	do.	213	(a)	(a)
Venezuela—				
Coal	Long ton	23,803	(a)	} (a)
Aniline	do.	46	(a)	
Creolin, etc.	do.	291	(a)	
China—				
Coal	Long ton	2,281,230	2,467,042	1,902,890
Coke	do.	4,937	6,903	6,265
Tar and pitch	do.	4,139	1,063	1,659
Carbolic acid	do.	254	264	454
Formosa—				
Coal	Long ton	11,119	26,435	} (a)
Coke	do.	6,924	7,527	
Tar	do.	738	761	
French Indo-China—				
Bituminous coal	Long ton	40,155	32,331	15,358
Lignite	do.	9	5	—
Coke	do.	618	524	858
Briquettes	do.	237	23	—
Tar	do.	10,670	3,969	793
Iraq (years ended March 31 of the year following)—				
Coal	Long ton	6,303	1,527	1,135
Coke	do.	775	80	118
Tar and pitch	do.	21	19	22
Japan (total imports)—				
Coal	Long ton	3,203,232	2,650,280	2,650,144
Coke	do.	5,264	2,024	3,329
Carbolic acid	do.	218	95	116
Naphthalene	do.	1,296	2,480	3,051
Distillates	do.	1,817	1,470	1,780

(a) Information not available.

(b) Total imports. Re-exports of coal were 30,200, 63,465 and 5,637 tons in 1929, 1930 and 1931 respectively.

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

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Korea (total imports)—				
Coal	Long ton	894,285	935,662	830,212
Coke	do.	12,505	12,086	6,429
Benzol	do.	78	121	(a)
Tar and pitch	do.	5,242	4,073	[3,176
Netherlands East Indies—				
Coal	Long ton	150,972	142,169	} (a)
Coke	do.	14,433	21,759	
Tar	do.	2,854	2,651	
Benzol	do.	109	78	
Carbolineum	do.	427	340	
Carbolic acid	do.	33	43	
Creosote, etc.	do.	155	362	
Naphthalene	do.	194	268	
Philippine Islands—				
Coal	Long ton	591,924	525,575	353,205
Coke	do.	1,785	2,054	2,202
Carbolic acid	do.	5	5	6
Persia (total imports) (g) —				
Coal, coke and peat	Long ton	701	882	1,372
Tar	do.	150	256	277
Benzol	do.	(a)	(a)	366
Siam (total imports)—				
Coal	Long ton	35,691	34,612	26,306
Coke	do.	3,606	2,540	1,409
Syria and Lebanon—				
Anthracite	Long ton	2,880	3,554	3,697
Other coal	do.	2,659	24,589	34,833
Briquettes	do.	36,097	47,964	18,666
Coke	do.	6,218	2,537	2,289
Tar	do.	21	196	28
Naphthalene	do.	46	29	37
Turkey—				
Coal, coke and lignite	Long ton	102,998	64,195	39,659
Cresol and naphthalene	do.	286	171	252
New Caledonia—				
Coal	Long ton	68,596	81,473	69,792
Coke	do.	16,786	16,424	8,006

(a) Information not available.

(g) Years ended March 21 of year stated.

COBALT

PRODUCTION OF COBALT

(Cwt.)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Union of South Africa (ore)	3	—	—
Canada (c)	8,298	6,198	4,652
India (b)	2,200	2,200	2,000
Australia (metal)	400	70	—
FOREIGN COUNTRIES			
Belgian Congo (d)	13,936	14,000	7,280

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

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

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

(d) Content of metal, oxide and salts produced at Oolen (Belgium).

EXPORTS OF COBALT, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Cobalt and cobalt alloys	103	130	44
Cobalt oxide	1,244	1,015	848
Canada—			
Cobalt ore (<i>Co content</i>) ..	3,387	3,568	2,438
Cobalt	2,819	348	522
Cobalt alloys	505	356	147
Cobalt oxides and salts	2,115	2,919	2,876
Australia (including re- exports)—			
Cobalt ore	1,839	792	209
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Cobalt salts	1,037	138	795
Czechoslovakia—			
Zaffre and smalt ..	4	4	—
France—			
Cobalt ore	26	6	—
Cobalt oxide, including zaffre and smalt ..	2	112	18
Cobalt salts	2	6	8
Belgian Congo—			
Copper-cobalt alloy ..	97,220	63,760	8,223

IMPORTS OF COBALT, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Cobalt and cobalt alloys	4,263	2,262	3,723
Cobalt oxide	4,788	3,838	3,751
Canada—			
Oxides of cobalt, tin and copper	2,578	2,173	2,082
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Cobalt salts	274	252	148
Czechoslovakia—			
Zaffre and smalt ..	250	315	335
France—			
Cobalt ore	85	533	500
Cobalt oxide, including zaffre and smalt ..	2,011	2,029	1,277
Cobalt salts	18	4	12
Italy—			
Cobalt oxide	429	276	262
Poland—			
Cobalt	6	2	2
Cobalt salts	87	63	35
Roumania—			
Cobalt oxide	(a)	12	(a)
Sweden—			
Cobalt oxide	93	(a)	(a)
United States—			
Cobalt ore and metal ..	11,081	5,892	2,222
Cobalt oxide	4,249	3,803	2,843
French Indo-China—			
Cobalt oxide	6	2	4
Japan (total imports)—			
Cobalt oxide	1,212	1,039	722

(a) Information not available.

COPPER

PRODUCTION OF COPPER ORE

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

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom ..	68	48	66
Northern Rhodesia ..	(c) 5,466	(c) 6,269	22,800
Southern Rhodesia (smelter)	312	1,313	530
South West Africa (d) ..	12,400	14,900	8,300
Union of South Africa ..	8,872	8,491	10,045
Canada	110,768	135,481	130,493
Cyprus	5,800	5,100	3,800
India (estimated)	7,500	11,600	11,400
Australia	12,812	12,984	13,532
Total ..	164,000	196,000	201,000
FOREIGN COUNTRIES			
Austria	2,048	2,181	1,292
Bulgaria (ore)	30,875	27,015	(a)
Czechoslovakia	1,338	2,302	1,661
Finland	4,635	5,051	6,141
France	587	410	200
Germany	28,525	26,546	29,356
Hungary (estimated) ..	20	30	30
Italy	869	492	368
Jugoslavia (estimated) ..	20,000	23,000	22,000
Norway	18,738	18,004	8,565
Portugal (estimated) ..	4,000	4,000	3,000
Roumania (smelter) ..	141	167	(a)
Russia (estimated) ..	26,000	33,600	30,600
Spain	63,000	62,000	53,000
Sweden	1,110	794	1,000
Algeria	25	1	(a)
Belgian Congo (smelter) ..	134,828	136,754	118,000
French Equatorial Africa	182	300	150
Morocco (French zone) ..	74	—	(a)
Cuba	14,720	13,790	11,680

PRODUCTION OF COPPER ORE (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Mexico (b)	85,187	72,252	53,355
United States	890,674	629,530	475,200
Bolivia (exports)	7,074	3,924	2,016
Chile	315,566	216,844	221,000
Peru	55,228	46,800	43,600
Formosa (ore)	97,733	(a)	(a)
China (estimated)	10	10	12
Japan (smelter)	74,277	77,785	73,632
Korea (smelter)	530	571	(a)
Turkey (black copper)	64	—	—
New Caledonia	—	50	(a)
Total	1,750,000	1,380,000	1,160,000
WORLD'S TOTAL	1,920,000	1,580,000	1,360,000

(a) Information not available.

(b) Amount estimated as recoverable.

(c) Smelter production.

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

METAL PRODUCTION OF COPPER

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (estimated)	22,000	18,000	16,000
Northern Rhodesia ..	5,466	6,269	8,927
Southern Rhodesia ..	312	1,313	530
Union of South Africa ..	9,162	7,370	10,063
Canada (d)	71,514	99,951	108,842
India	1,635	2,974	4,069
Australia	10,874	14,900	12,936
Total ..	121,000	151,000	161,000
FOREIGN COUNTRIES			
Austria	3,834	4,012	3,184
Belgium	8,799	14,409	(a)
Czechoslovakia	1,667	1,497	1,196
Finland	231	—	—
France (c)	1,370	2,500	(a)
Germany (b)	52,700	58,300	54,600
Italy	530	258	710
Jugoslavia	20,348	24,077	23,917
Norway	2,400	5,068	4,283
Roumania	141	167	(a)
Russia (years ended Sept. 30)	30,000	46,700	48,000
Spain	28,100	22,632	25,394
Sweden	4,847	5,697	2,900
Belgian Congo (e)	134,828	136,754	118,000
Mexico	64,094	55,508	42,000
United States	983,015	718,088	521,000
Chile	297,732	204,281	211,849
Peru	53,109	44,943	43,000
China (exports)	3,415	1,184	155
Formosa	256	(a)	(a)
Japan	74,277	77,785	73,632
Korea	530	571	(a)
Total ..	1,770,000	1,430,000	1,190,000
WORLD'S TOTAL	1,890,000	1,580,000	1,350,000

(a) Information not available.

(b) *Metallgesellschaft* figures.

(c) Includes some matte.

(d) Copper content of blister copper.

(e) The 1931 figure is in terms of fine copper; those for previous years refer to blister copper.

EXPORTS OF COPPER, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc.	14,584	5,460	3,596
Bars, ingots, etc.—			
Electrolytic	1,298	1	3
Other	12,135	8,062	5,446
Scrap	4,612	3,451	2,721
Plates, sheets, etc.	5,753	6,352	4,945
Rods	1,721	1,191	419
Tubes	1,804	1,408	1,024
Wire	10,573	9,038	6,470
Sulphate.	41,574	42,359	38,975
Northern Rhodesia—			
Ore and concentrates	213	129	22,790
Bars and ingots	5,808	5,600	4,823
South West Africa—			
Copper - lead ore and matte	65,045	55,084	32,445
Union of South Africa—			
Ore and concentrates	75	72	5,514
Blister	2,251	1,048	—
Bars, plates, etc.	5,262	5,823	8,877
Canada—			
Ore, matte, etc. (<i>Cu con-</i> <i>tent</i>)	38,839	33,395	21,768
Blister	66,195	65,858	16,829
Scrap	5,161	3,020	2,289
Bars, sheets, tubes etc.	59	3,107	46,966
Newfoundland (b)—			
Concentrates	—	1,000	—
British India—			
Matte, etc.	10,509	16,724	14,213
British Malaya (including re-exports)—			
Ingots, bars, sheets, etc.	84	139	117

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

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
Cyprus—			
Precipitate	54	10	—
Australia (including re-exports)—			
Ore, etc. (<i>Cu content</i>) (<i>b</i>)	1,016	1,032	299
Matte	3,801	3,155	1,255
Blocks and ingots ..	3,064	9,520	12,061
Bars, sheets, wire, etc.	51	7	11
Papua—			
Copper and copper ore ..	—	8	2
FOREIGN COUNTRIES			
Austria—			
Ore	241	114	72
Rough copper and scrap	2,885	2,181	1,696
Bars, sheets, wire, etc.	2,763	2,510	2,473
Sulphate.. .. .	35	17	204
Belgium-Luxemburg E.U.—			
Ore	9,738	8,501	3,834
Rough copper and scrap	35,321	70,723	69,122
Sheets, wire, etc. ..	9,649	11,944	6,550
Sulphate.. .. .	18,254	15,051	20,509
Bulgaria—			
Ore (<i>c</i>)	1,505	2,096	—
Ingot and scrap ..	42	13	—
Czechoslovakia—			
Ore	4,601	6,172	6,258
Crude, refined and scrap	4,789	5,051	4,611
Sheets, rods, wire, etc.	279	332	740
Denmark—			
Bars, sheets, wire, etc..	71	57	65
Estonia—			
Scrap	179	110	102
Finland—			
Ore	48,018	54,284	56,898
Rough copper and scrap	537	262	141

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France—			
Ore, matte, etc.	4,766	6,627	9,659
Ingots, alloys, etc.	1,843	6,499	1,535
Scrap	5,365	4,585	2,813
Bars, sheets and wire	28,031	27,283	19,311
Sulphate	3,672	4,920	4,969
Germany—			
Ore, including burnt cupreous pyrites	8,283	9,673	23,275
Rough copper and alloys	31,333	42,389	45,684
Coin and scrap	3,304	4,060	4,118
Bars, sheets, wire, etc.	30,280	34,862	32,539
Hungary—			
Rough copper and scrap (including brass)	96	204	72
Bars, sheets, wire, etc.	1,688	1,682	1,250
Sulphate	122	56	1,811
Italy—			
Ore	1,575	1,307	629
Ingots, scrap and alloys	1,744	1,356	572
Bars, sheets, wire, etc., and alloys	187	356	560
Sulphate	5,110	5,648	4,543
Jugoslavia—			
Ore	10	17	—
Ingots and scrap	18,934	24,277	22,301
Sulphate	31	1	2
Latvia—			
Bars and scrap	62	34	—
Netherlands—			
Ingots, bars and tubes	417	337	195
Scrap	2,147	1,551	1,052
Sheets, cable and wire	1,110	1,145	531
Sulphate	12	19	11
Norway—			
Cupreous pyrites	445,143	420,718	217,098
Other ore	14,993	1,186	(a)
Burnt cupreous pyrites	42,252	34,595	12,889
Matte	1,943	1,569	(a)

(a) Information not available.

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

(c) Excluding mixed ores.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Norway (Cont.)—			
Refined copper	1,870	4,708	3,324
Scrap, including brass ..	1,369	750	552
Sheets, tubes, wire, etc., including brass ..	211	159	(a)
Poland—			
Precipitate and scrap ..	45	15	35
Pigs, bars and ingots ..	76	28	106
Sheets, tubes and wire ..	22	5	12
Sulphate.. .. .	23	158	180
Portugal—			
Ore and cupreous pyrites	284,852	352,687	235,104
Precipitate	93	793	550
Sulphate	170	73	70
Roumania—			
Ore	(a)	145	(a)
Rough and scrap ..	(a)	148	(a)
Russia—			
Copper	5	42	8
Spain (including re-exports)—			
Ore—			
Not more than 2½ % copper	895,721	755,358	502,912
More than 2½ % copper	1,773	2,700	—
Precipitate and scrap (c)	15,352	16,673	12,476
Ingots (c)	7,288	6,084	6,405
Sulphate.. .. .	14	36	56
Sweden—			
Ore	2,428	1,001	533
Rough copper	3,289	4,715	4,947
Sheets, tubes, wire, etc.	4,549	5,814	4,577
Sulphate	118	—	—
Switzerland—			
Ore, filings and turnings	2,775	1,730	1,176
Bars, ingots, etc. (c) ..	390	369	212
Scrap (c)	804	542	236
Sheets, tubes, wire, etc. (c)	8,073	6,070	5,383

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Ore, matte, etc.	286	51	—
Bars, sheets and wire	80	44	} 458
Scrap	638	441	
Belgian Congo—			
Ore	9	444	2
Ingots	120,678	144,431	122,045
Copper-cobalt alloy	4,361	3,619	411
Egypt—			
Rough copper and scrap	22	(d)135	73
French Equatorial Africa—			
Ore	433	738	2
Morocco—			
Ingots and scrap	232	193	(a)
Mozambique—			
Ore	—	—	295
Tunis (including re-exports)—			
Ore	2	—	—
Cuba—			
Ore	57,133	(a)	(a)
Mexico—			
Ores, concentrates, etc.	(e) 21,093	60,643	36,426
Copper bars	64,094	55,508	42,792
United States—			
Unrefined copper (Cu content)	2,491	80	134
Refined ingots, etc.	367,167	265,230	180,980
Scrap	16,802	15,128	29,711
Sheets, rods, wire, etc.	48,092	46,683	32,291
Sulphate	2,866	2,260	3,210
Argentina—			
Ore	139	1,291	62
Bolivia—			
Ore, etc. (Cu content)	7,074	3,924	2,016

(a) Information not available.

(c) Including alloys.

(d) March–December only.

(e) Cu content.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Chile—			
Ore and concentrates ..	114,677	84,170	14,671
Precipitate	41	488	365
Ingots	303,436	192,928	208,394
Peru—			
Ores (<i>Cu content</i>) ..	776	784	697
Mattes, etc. (<i>do.</i>) ..	64	57	42
Bars (<i>do.</i>) ..	51,992	48,964	42,874
Precipitate (<i>do.</i>) ..	52	443	10
Venezuela—			
Scrap	56	(a)	(a)
China—			
Ingots and blocks ..	3,415	1,184	155
French Indo-China—			
Ingots, sheets, wire, alloys etc.	8	6	—
Scrap	37	35	50
Formosa—			
Copper	175	113	(a)
Japan—			
Ingots and blocks ..	2,100	19,022	3,211
Plates, sheets and wire..	3,553	3,142	1,783
Korea—			
Ingots	1,002	982	845
Netherlands East Indies—			
Scrap	1,296	1,105	(a)
Philippine Islands—			
Scrap	444	311	246
Turkey—			
Ore and scrap	136	114	35
Ingots, bars, sheets and wire, including alloys	55	747	368

(a) Information not available.

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore, matte, etc. ..	38,939	45,487	35,643
Bars, ingots, etc.—			
Electrolytic	102,183	94,225	73,209
Other	45,421	46,094	53,244
Scrap	3,221	3,267	3,595
Plates, sheets, etc. ..	3,201	3,259	4,071
Rods	14,921	24,693	26,753
Tubes	2,031	1,774	1,626
Wire	6,889	6,741	4,885
Sulphate.. .. .	223	185	727
Irish Free State—			
Sheets, wire, tubes, etc.	1,222	1,015	643
Sulphate	3,648	2,898	3,656
Kenya and Uganda—			
Sheets and wire ..	118	148	42
Mauritius (total imports)—			
Bars, sheets, scrap, etc.	21	36	(a)
Northern Rhodesia—			
Bars, sheets, etc. ..	7	5	6
South West Africa—			
Bars, sheets, pipes, etc. ..	16	8	3
Tanganyika Territory—			
Sheets and wire ..	81	92	40
Union of South Africa—			
Bars, ingots and slabs..	257	175	309
Plates, sheets and tubes	444	529	458
Wire	199	235	65
Canada—			
Blocks, pigs and ingots.	5,395	3,512	431
Scrap	2,214	645	336
Bars, sheets, wire, etc. ..	27,657	16,503	5,705
Sulphate	1,951	2,686	2,162
West Indies (Barbados)—			
Bars and sheets	(£932)	(£809)	(a)

(a) Information not available.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
British Honduras—			
Sheets and rods	(£700)	(£690)	(a)
British India (total imports)—			
Pyrites	5,597	2	—
Scrap	245	496	346
Ingots, cakes, blocks, etc.	851	711	289
Sheets, tubes, wire, etc.	8,179	7,807	9,651
Sulphate	1,309	996	815
British Malaya (total imports)—			
Bars, ingots, sheets, etc.	908	815	421
Cyprus—			
Bars, sheets, etc. ..	84	31	36
Australia—			
Concentrates	2	4,144	—
Blocks, ingots	99	16	—
Bars, sheets, wire, etc...	1,807	1,279	321
New Zealand—			
Bars, sheets, pipes, etc.	682	765	448
Wire (£ <i>New Zealand</i>) ..	(£133,134)	(£183,832)	(£83,521)
Sulphate	167	166	156
FOREIGN COUNTRIES			
Austria—			
Ore	3,323	6,523	4,839
Rough copper and scrap	16,434	11,966	8,776
Bars, sheets, wire, etc. ..	166	180	142
Sulphate	4	301	258
Belgium-Luxemburg E.U.—			
Ore	59,739	52,436	48,045
Rough copper and scrap	94,113	93,796	90,416
Sheets, wire, etc. ..	5,700	4,698	1,922
Sulphate	40	13	13
Bulgaria—			
Bars, sheets, and wire ..	1,217	738	1,224
Sulphate	2,590	1,706	67

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Crude, refined and scrap	18,702	21,271	18,305
Sheets, rods, wire, etc.	619	492	449
Denmark—			
Rough, scrap and alloys	1,267	1,849	1,955
Bars, sheets, wire, etc...	4,165	6,160	5,280
Estonia—			
Ingots, sheets, wire, etc.	159	162	126
Sulphate.. .. .	6	5	6
Finland—			
Rough and scrap ..	87	192	200
Sheets, tubes and wire..	2,955	2,220	1,681
Sulphate.. .. .	43	41	31
France—			
Ore, matte, etc... ..	826	3,973	3,002
Ingots, alloys, etc. ..	149,024	149,365	125,494
Scrap	21,270	19,906	11,673
Bars, sheets and wire ..	10,146	11,694	9,436
Sulphate	21,943	27,925	32,024
Germany—			
Ore, including burnt cupreous pyrites ..	431,170	434,818	419,583
Rough copper and alloys	191,556	167,047	148,586
Coin and scrap	25,268	19,870	24,406
Bars, sheets, wire, etc...	2,259	1,462	542
Greece—			
Rough copper and alloys	45	3	16
Sheets, tubes, alloys, etc.	1,315	1,067	1,066
Sulphate.. .. .	3,355	2,974	5,321
Hungary—			
Rough copper and scrap (including brass) ..	8,908	7,559	6,128
Bars, sheets, wire, etc...	521	531	477
Sulphate	112	403	46
Italy—			
Ore	105	68	—
Ingots, scrap and alloys	55,330	51,210	52,539
Bars, sheets, wire, etc., and alloys	3,197	2,517	3,177
Sulphate.. .. .	8,960	12,354	8,823

(a) Information not available.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Crude, scrap, coin, etc...	460	1,745	2,421
Bars, sheets, wire, etc...	2,194	2,121	1,340
Sulphate	4,550	4,318	3,622
Latvia—			
Ingots, bars and scrap..	78	93	98
Sheets, tubes and wire..	162	368	184
Lithuania—			
Copper	51	140	105
Netherlands—			
Ore	—	1	2,298
Ingots, bars and tubes..	7,110	6,835	4,338
Scrap	556	472	330
Sheets, cable and wire ..	5,671	7,014	7,691
Sulphate	971	885	1,455
Norway—			
Rough copper and alloys	561	751	(a)
Sheets, etc.	1,497	1,311	(a)
Poland—			
Precipitate and scrap ..	452	1,533	364
Pigs, bars and ingots ..	9,021	5,211	4,401
Sheets, tubes and wire ..	1,359	726	444
Sulphate.. .. .	5	10	11
Portugal—			
Copper and alloys ..	2,428	2,954	4,389
Sulphate.. .. .	3,843	2,082	1,036
Roumania—			
Ore	(a)	33	(a)
Rough and scrap ..	(a)	1,294	(a)
Sheets and wire ..	(a)	431	(a)
Sulphate	(a)	2,688	(a)
Russia—			
Ingots, sheets, etc. ..	24,816	20,384	24,853
Spain (total imports)—			
Precipitate and scrap (b)	2,791	3,550	3,427
Ingots (b)	1,059	444	97
Sheets, tubes, wire, etc.(b)	1,022	1,604	1,252
Sulphate	495	507	725
Sweden—			
Rough copper	24,706	26,623	32,390
Sheets, rods, wire, etc.	440	1,045	1,248
Sulphate	192	188	155

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Ore, filings and turnings	2,934	1,082	2,108
Bars, ingots, etc. (b) ..	13,779	15,054	11,912
Scrap (b)	1,049	665	596
Sheets, tubes, wire, etc. (b)	6,045	7,187	8,477
Algeria—			
Scrap	59	86	2,979
Bars, sheets, wire, etc. ..	1,943	3,889	
Precipitate, etc. ..	3	2	
Sulphate	7,258	7,542	6,775
Belgian Congo—			
Bars, sheets and wire ..	298	160	186
Egypt—			
Bars, sheets, tubes, wire, scrap, etc.	2,241	3,121	1,881
Sulphate	34	37	43
Morocco—			
Sheets and wire (b) ..	1,136	1,155	1,147
Mozambique—			
Bars, sheets, wire and alloys	72	58	71
Tunis—			
Bars, ingots, scrap, etc. (b)	64	140	39
Sheets and wire (b) ..	453	483	418
Sulphate	354	261	314
Costa Rica (total imports)—			
Bars, sheets, pipes and wire	148	(a)	(a)
Cuba (total imports)—			
Ingots and bars	64	(a)	(a)
Sheets, tubes and wire ..	803	(a)	(a)
Mexico—			
Ingots	—	216	376
Bars, sheets, alloys, etc.	—	288	1,159
Sulphate	—	812	(a)
Salvador—			
Copper	3	13	(a)

(a) Information not available.

(b) Including alloys.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
United States—			
<i>Cu content of—</i>			
Ore	55,633	45,231	10,527
Concentrates	23,986	25,389	44,379
Matte, precipitate, etc.	939	2,101	656
Unrefined	288,467	250,209	125,826
Refined	(b) 59,828	(b) 38,487	77,879
Scrap	(b) 6,071	(b) 3,348	2,277
Sulphate	2,406	2,663	1,180
Argentina—			
Ingots	348	836	739
Ingots, sheets and bronze	1,918	1,301	1,242
Sulphate	2,019	1,392	2,576
Brazil (total imports)—			
Plates, sheets, alloys, etc.	2,335	1,313	640
Rough, scrap, alloys, etc.	6,241	2,802	1,575
Tubes, pipes, wire and alloys	677	408	261
Sulphate	1,313	475	965
Chile—			
Ore	27	13	—
Bars, sheets and wire ..	212	184	160
Sulphate	28	123	76
Colombia—			
Ingots, sheets, alloys, etc.	339	227	(a)
Wire	618	998	(a)
Sulphate	12	21	(a)
Ecuador—			
Ingots, etc.	27	40	35
Peru—			
Bars, sheets, etc. (c) ..	98	107	47
Sulphate	438	187	21
Uruguay—			
Sulphate	—	461	79
Venezuela—			
Unwrought	130	(a)	(a)
Sulphate	22	(a)	(a)
China—			
Ingots and blocks ..	3,422	2,071	2,784
Bars, sheets, wire etc...	2,634	2,376	1,508

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description.	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Formosa—			
Sheets, plates, wire, etc.	484	531	(a)
French Indo-China—			
Ingots, sheets, alloys, etc.	733	1,026	914
Scrap	493	702	487
Sulphate.. .. .	10	10	7
Iraq (years ended Mar. 31 of the year following)			
Crude, etc.	145	135	126
Sulphate.. .. .	27	33	(a)
Japan (total imports)—			
Ingots and blocks ..	4,860	1,163	152
Korea (total imports)—			
Ingots	136	67	31
Netherlands East Indies—			
Crude and alloys ..	422	255	(a)
Bars, sheets and alloys ..	777	651	(a)
Tubes, wire and alloys..	4,008	3,010	(a)
Sulphate	604	339	(a)
Philippine Islands—			
Ingots	(a)	(a)	63
Sheets and wire.. ..	312	342	298
Siam (total imports)—			
Rough copper	154	226	48
Syria and Lebanon—			
Ore	72	15	1
Sheets and tubes ..	134	553	548
Turkey—			
Ingots, bars, sheets, wire and alloys	1,520	770	1,219
Sulphate	285	176	438

(a) Information not available.

(b) Total imports.

(c) Including brass and bronze.

DIAMONDS

PRODUCTION OF DIAMONDS

(Metric carats)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Gold Coast (c)	660,536	861,119	880,479
Southern Rhodesia	232	19	9
South West Africa	597,189	415,047	71,532
Tanganyika Territory	24,432	12,295	7,791
Union of South Africa	3,661,212	3,163,591	2,119,156
British Guiana	125,799	110,042	63,479
India	1,628	1,321	639
Australia	119	667	725
Total ..	5,071,000	4,564,000	3,144,000
FOREIGN COUNTRIES			
Angola	311,903	329,824	351,495
Belgian Congo	1,907,765	2,518,100	3,528,379
French Equatorial Africa..	—	—	1,260
Brazil (estimated)—			
Gem diamonds	50,000	45,000	50,000
Low grade and bort	75,000	70,000	100,000
Carbons	19,000	17,500	25,000
Netherlands East Indies ..	585	459	(a)
Total ..	2,360,000	2,980,000	4,060,000
WORLD'S TOTAL	7,430,000	7,540,000	7,200,000

(a) Information not available.

(c) Exports.

EXPORTS OF DIAMONDS

(Domestic Produce)

Exporting Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
Gold Coast	Carat	660,536	861,119	880,479
South West Africa (uncut) ..	do.	597,059	414,947	71,532
Tanganyika Territory ..	do.	23,290	13,337	7,790
Union of South Africa—				
Uncut	do.	2,776,699	1,526,398	1,725,185
Cut and polished	do.	35,387	49,764	43,553
British Guiana	do.	128,115	104,756	65,550
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Precious stones, chiefly diamonds	£	791,000	603,000	1,356,000
do. cut and polished	£	11,036,000	5,613,000	7,062,000
Czechoslovakia—				
Glaziers' diamonds ..	Carat	790,000	725,000	655,000
Netherlands (b)—				
Cut and uncut	£	2,500	3,600	1,900
Angola	Carat	311,199	318,634	223,901
Belgian Congo—				
Precious stones, chiefly diamonds	Carat	1,895,318	2,086,768	3,669,316
French Equatorial Africa ..	Carat	—	—	1,260
Brazil—				
Diamonds (c)	£	56,105	24,606	24,433
Carbons (d)	£	169,708	60,221	18,025

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

	1929.	1930.	1931.
Cut	176,162	110,237	59,959
Crude	124,713	65,722	112,639
Industrial	9,535	4,719	2,024

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

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

IMPORTS OF DIAMONDS
(Less Re-exports)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom	Carat	2,602,777	1,501,938	1,508,845
Union of South Africa— Cut and polished	Carat	428	735	598
Canada—				
Unset	£	742,659	413,614	178,123
Dust, bort, etc.	£	557,385	295,806	93,744
British Guiana	Carat	74	37	31
British India (b)	£	654,413	377,936	305,000
Ceylon	Carat	2,106	900	1,322
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.— Precious stones, chiefly diamonds	£	8,823,000	5,029,000	4,744,000
Czechoslovakia— Glaziers' diamonds	Carat	460,000	565,000	535,000
Netherlands—				
Uncut	£	26,100	7,100	19,300
Cut and polished	£	—	11,100	500
Russia— Industrial diamonds	Carat	180,000	65,000	—
Egypt—				
Cut	Carat	(a)	(d) 2,042	1,431
United States—				
Uncut (b)	Carat	354,367	209,591	85,249
Cut and polished (b)	do.	416,992	295,351	201,998
Glaziers' diamonds (b)	do.	46,949	145,958	224,970
Dust and bort (b)	£	18,591	18,705	(a)
Peru— Glaziers' diamonds	£	161	28	—
Netherlands East Indies (c)—				
Uncut	Carat	45	—	(a)
Cut and polished	do.	10	—	(a)
Philippine Islands	Carat	23,613	13,529	14,291

(a) Information not available.

(b) Total imports.

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

1929.	1930.	1931.
£33,000	£73,000	(a)

(d) March-December only.

DIATOMACEOUS EARTH**PRODUCTION OF DIATOMACEOUS EARTH
(Long tons)**

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Great Britain	58	3,150	—
Northern Ireland	4,207	3,604	3,401
Canada	383	495	1,450
Barbados	10	10	10
Australia	1,107	1,240	1,067
FOREIGN COUNTRIES			
Denmark (moler) (b) ..	44,000	38,000	34,000
France	5,400	7,300	8,200
Germany (exports) ..	8,564(c)	6,519	4,908
Hungary (exports) ..	3,726	2,774	1,392
Italy	1,284	1,136	857
Norway (exports)	10	82	(a)
Portugal	59	12	(a)
Spain (estimated)	(a)	2,700	2,200
Sweden	580	570	(a)
Algeria	10,000	10,000	11,000
United States (estimated)	105,000	110,000	78,000
Chile	—	180	(a)
Japan	9,085	5,548	(a)
Korea	200	900	700
Netherlands East Indies..	413	(a)	(a)

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

(a) Information not available.

(b) Estimated.

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

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

Exporting Country	1929	1930	1931
BRITISH EMPIRE			
Canada (including other natural abrasives) ..	370	333	642
Union of South Africa ..	—	—	68
FOREIGN COUNTRIES			
Denmark			
Moler	31,472	24,512	22,045
Moler bricks	5,997	6,330	5,852
France	1,596	2,794	1,607
Germany	8,564	6,519	4,908
Hungary	3,726	2,774	1,392
Italy—			
Crude	385	161	104
Calcined, etc.	24	103	227
Norway—			
Calcined.. .. .	10	82	(a)
Poland	8	—	15
Russia	989	227	1,052
Spain (estimated)	(a)	2,600	2,100
Algeria	11,549	14,435	10,978

(a) Information not available.

IMPORTS OF DIATOMACEOUS EARTH

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

Importing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	10,819	8,760	17,060
Union of South Africa ..	49	80	54
Canada	1,065	294	759
FOREIGN COUNTRIES			
Denmark—			
Moler	653	718	646
Moler bricks	27	60	48
Estonia	49	21	44
Finland	708	402	323
France	4,193	5,059	5,122
Germany	1,129	1,619	7,750
Hungary	465	579	759
Italy—			
Crude	358	497	380
Calcined, etc.	81	107	62
Jugoslavia	410	372	333
Latvia	155	320	148
Norway	34	(b) 27	(a)
Poland	2,923	2,302	855
Portugal	(a)	107	86
Russia	21	922	86
Cuba (total imports) ..	1,108	(a)	(a)
Colombia	275	97	(a)
Peru	291	1,186	1,315

(a) Information not available.

(b) Total imports.

FELSPAR

PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
China stone	64,558	62,920	42,650
Canada	33,506	23,925	16,378
India	—	—	334
Australia (including china-stone)	78	67	205
FOREIGN COUNTRIES			
Czechoslovakia (c) ..	30,000	30,000	30,000
France	12,100	(a)	(a)
Germany (Bavaria only) ..	7,575	5,069	4,921
Italy	6,700	5,659	(a)
Norway (exports)	26,104	19,608	14,866
Roumania (b)	2,440	1,932	(a)
Sweden	38,475	37,986	28,066
United States (sales) ..	197,699	171,788	147,119
Argentina	420	193	(a)
Manchuria	344	(a)	(a)

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

(a) Information not available.

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

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

EXPORTS OF FELSPAR
(Domestic Produce)
(Long tons)

Exporting Country	1929	1930	1931
BRITISH EMPIRE			
Canada	26,693	18,913	9,799
FOREIGN COUNTRIES			
Austria	147	73	61
Belgium-Luxemburg E. U.	442	1,222	1,656
Czechoslovakia	8,984	7,981	6,394
Finland	452	611	66
Germany	25,346	25,359	18,598
Netherlands	1,900	1,629	560
Norway—			
Crude	19,344	14,770	11,061
Ground	6,760	4,838	3,805
Poland	—	1	1
Sweden	35,756	32,459	24,504

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

Importing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	(b)	(b)	(c) 10,251
Canada	3,531	2,836	1,676
FOREIGN COUNTRIES			
Austria	1,879	1,519	1,735
Belgium-Luxemburg E. U.	4,680	5,362	7,926
Czechoslovakia	3,249	1,813	1,471
Denmark	1,219	1,281	594
Finland	268	270	212
Germany	45,711	37,336	29,240
Latvia	325	—	22
Netherlands	3,617	3,235	2,059
Poland	6,427	4,571	2,639
Sweden	124	345	469
United States	29,927	20,057	10,790

(b) Not separately recorded in the trade returns of the United Kingdom prior to 1931. The exports from Norway and Sweden into the United Kingdom were 15,930 and 13,386 long tons during 1929 and 1930 respectively.

(c) Including China stone.

FLUORSPAR

PRODUCTION OF FLUORSPAR (Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	41,762	29,788	19,922
South West Africa ..	296	—	—
Union of South Africa (shipments)	2,672	1,495	2,163
Canada	15,955	71	36
Australia	686	953	533
FOREIGN COUNTRIES			
France	52,130	(a)	(a)
Germany—			
Bavaria	49,995	47,304	26,357
Prussia	37,121	29,794	12,639
Saxony	18,199	8,632	(a)
Italy	5,649	6,550	5,758
Norway	103	245	182
Spain (b)	13,265	10,803	(a)
United States (shipments)	130,749	85,579	47,754
China	7,500	8,000	8,000
Korea	1,447	2,261	(a)

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

(a) Information not available.

(b) In addition 100 cubic metres were produced from quarries during 1930.

EXPORTS OF FLUORSPAR (Domestic Produce) (Long tons)

Exporting Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	8,839	6,600	713
South West Africa ..	78	—	—
Union of South Africa ..	3,911	1,909	2,820
FOREIGN COUNTRIES			
Austria	—	—	6
Belgium-Luxemburg E.U.	226	76	249
Germany	50,545	44,020	26,316
Norway	2	90	(a)

IMPORTS OF FLUORSPAR

(Less Re-exports)

(Long tons)

Importing Country	1929	1930	1931
BRITISH EMPIRE			
Canada	10,796	11,296	2,871
FOREIGN COUNTRIES			
Austria	5,114	4,379	3,608
Belgium-Luxemburg E.U.	1,167	1,197	1,417
Denmark	768	820	895
Germany	171	133	22
Jugoslavia	889	852	162
Norway	2,311	2,582	(a)
Sweden	2,526	(a)	(a)
United States	48,522	57,949	18,518

(a) Information not available.

FULLER'S EARTH

PRODUCTION OF FULLER'S EARTH (Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	Not available for publication.		
India	3,094	4,431	2,958
Australia	—	—	45
FOREIGN COUNTRIES			
United States (sales)	282,128	299,682	257,500
Turkey	11,375	7,588	5,924

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	1929	1930	1931
BRITISH EMPIRE			
Union of South Africa	91	99	206
Canada	(£17,891)	(£14,925)	(£11,626)
Ceylon	154	82	102
Australia	203	214	247
FOREIGN COUNTRIES			
Egypt	259	(a)	(a)
United States—			
Crude	543	365	121
Prepared	6,870	6,115	3,462
Philippine Islands	2,471	1,676	1,646

(a) Information not available.

GOLD

PRODUCTION OF GOLD ORE

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

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	12	—	—
Anglo-Egyptian Sudan (exports of bullion) ..	2,500	1,000	3,200
Bechuanaland Protectorate	1,686	2,231	1,451
Gold Coast	207,851	240,899	261,651
Kenya	845	1,789	2,351
Nigeria	192	260	699
Northern Rhodesia ..	699	7,511	9,364
Southern Rhodesia ..	560,813	547,630	532,111
Sierra Leone	—	720	5,700
South West Africa ..	435	222	570
Swaziland	90	—	—
Tanganyika Territory ..	9,071	11,072	14,526
Uganda	—	—	71
Union of South Africa ..	10,412,326	10,716,351	10,877,777
Canada	1,928,308	2,102,068	2,693,892
British Guiana	6,200	5,893	10,183
Federated Malay States (c)	26,782	29,597	29,462
India	363,800	329,200	330,400
Sarawak (exports) ..	691	3,497	8,975
Australia	427,159	467,001	602,671
New Guinea (years ended June 30)	44,000	30,000	30,000
New Zealand	(d) 112,542	(d) 129,070	130,049
Papua (years ended June 30)	1,624	2,367	4,305
Total ..	14,100,000	14,600,000	15,600,000
FOREIGN COUNTRIES			
Czechoslovakia	9,354	9,418	5,743
France	57,709	100,019	(a)
Germany	5,823	6,067	4,128
Italy	3,409	2,942	3,409
Jugoslavia	18,500	23,000	30,000
Roumania	71,148	85,905	(a)

PRODUCTION OF GOLD ORE (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Russia (<i>h</i>)	835,918	868,068	(<i>a</i>)
Sweden	35,011	33,790	(<i>a</i>)
Belgian Congo	172,832	210,245	237,887
Egypt	—	542	(<i>a</i>)
French Equatorial Africa	—	2,251	8,745
French West Africa	3,151	2,283	(<i>a</i>)
Madagascar	6,018	7,234	8,584
Mozambique	449	176	(<i>a</i>)
Mexico	651,873	671,871	623,003
United States (<i>b</i>)	2,058,994	2,138,723	2,221,878
Costa Rica (<i>g</i>)	4,052	4,780	(<i>a</i>)
Guatemala (<i>g</i>)	9,445	14,307	(<i>a</i>)
Honduras	10,246	13,498	(<i>a</i>)
Nicaragua (<i>g</i>)	12,102	13,323	(<i>a</i>)
Panama	(<i>g</i>) 2,598	(<i>g</i>) 121	(<i>e</i>) 5,500
Argentina (estimated)	1,000	1,000	1,000
Bolivia	665	—	26
Brazil	109,803	143,775	(<i>e</i>) 100,000
Chile	25,921	17,333	16,718
Colombia	76,657	(<i>a</i>)	(<i>a</i>)
Dutch Guiana (<i>crude</i>)	3,560	4,758	4,597
Ecuador (estimated)	70,000	70,000	70,000
French Guiana	48,932	43,917	(<i>a</i>)
Peru	122,141	71,084	(<i>a</i>)
Venezuela	46,477	58,729	42,310
China	88,000	126,000	144,000
Formosa	14,861	(<i>a</i>)	(<i>a</i>)
French Indo-China	514	370	(<i>a</i>)
Japan	335,078	387,983	392,242
Korea (estimated)	160,000	180,000	(<i>a</i>)
Netherlands East Indies	109,702	110,448	(<i>a</i>)
Philippine Islands	160,620	179,220	174,000
Total	5,300,000	5,600,000	5,700,000
WORLD'S TOTAL	19,400,000	20,200,000	21,300,000

(*a*) Information not available.

(*b*) Amount recovered.

(*c*) Quantity placed on the market.

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

(*e*) Estimated.

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

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

EXPORTS OF GOLD

(In terms of metal)

(Troy ounces)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Bullion—			
Unrefined	—	—	408,000
Refined	18,002,000	18,960,000	26,506,000
Coin	243,000	265,000	1,329,000
Anglo-Egyptian Sudan—			
Bullion	2,500	1,100	3,200
Coin	17,000	3,500	(a)
Gold Coast—			
Bullion	205,000	250,000	234,000
Kenya and Uganda—			
Bullion	900	1,800	6,000
Northern Rhodesia—			
Bullion	800	6,200	8,300
Southern Rhodesia—			
Concentrates	430	190	160
Bullion	546,000	508,000	505,000
Antimony ore (<i>Au</i> <i>content</i>)	17,000	16,000	5,000
South West Africa—			
Bullion	280	300	500
Tanganyika Territory—			
Bullion	9,200	11,000	13,000
Union of South Africa—			
Concentrates, etc.	160	160	160
Bullion	8,448,000	8,730,000	9,173,000
Lead bars (<i>Au content</i>)	1,400	800	—
Coin	2,263,000	2,249,000	1,508,000
Zanzibar—			
Bullion	—	—	300
Coin	—	—	2,000
Canada—			
Bullion	2,226,000	1,078,000	2,293,000
Coin	1,267,000	783,000	1,565,000

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
British Guiana—			
Bullion	4,900	4,400	12,000
British Borneo—			
Bullion	1,000	4,000	10,000
British India (b)—			
Bullion	3,000	34,000	4,920,000
Coin	2,100	200	266,000
British Malaya—			
Bullion	93,000	298,000	624,000
Coin	44,000	39,000	12,000
Australia (years ended June 30)—			
Ores, etc.	860	1,100	560
Bullion	16,000	400	250,000
Coin	629,000	5,799,000	2,403,000
New Guinea (years ended June 30)—			
Bullion	42,000	23,000	31,000
New Zealand—			
Concentrates, sweepings, etc.	450	1,400	1,300
Bullion	113,000	128,000	124,000
Coin	131,000	—	40,000
Papua (years ended June 30)—			
Bullion	1,600	4,000	4,000
FOREIGN COUNTRIES			
Austria—			
Bullion	51,000	61,000	80,000
Coin	12,000	10,000	45,000
Beaten, rolled or drawn	25,000	3,000	2,000

(a) Information not available.

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Belgium-Luxemburg E.U.			
Bullion	9,000	17,000	90,000
Beaten, rolled or drawn	4,000	5,200	4,000
Czechoslovakia—			
Bullion	7,000	5,000	8,000
Coin	300	100	40,000
France—			
Bullion and scrap ..	135,000	1,026,000	5,000,000
Coin	25,000	67,000	350,000
Beaten, rolled or drawn	32,000	27,000	30,000
Germany—			
Bullion	10,920,000	6,020,000	11,000,000
Coin	4,400	3,900	5,000,000
Beaten or rolled ..	39,000	28,000	22,000
Hungary—			
Bullion	400	—	40
Italy—			
Bullion	25,000	21,000	40,000
Coin	100	—	50
Beaten, rolled or drawn	100	2,000	150
Netherlands—			
Bullion	5,000	522,000	9,000,000
Coin	817,000	508,000	190,000
Poland—			
Bullion	570	340	450
Coin	30	218,000	100
Spain—			
Coin	—	849,000	120,000
Sweden—			
Bullion	3,000	1,000	260,000
Coin	35,000	13,000	210,000

EXPORTS OF GOLD (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Switzerland—			
Bullion	245,000	191,000	133,000
Coin	10,000	18,000	44,000
Belgian Congo—			
Bullion	116,000	143,000	170,000
Egypt—			
Bullion	223,000	196,000	370,000
Coin	60,000	—	1,000
French Equatorial Africa—			
Bullion	—	2,000	7,000
French West Africa—			
Bullion	2,000	6,000	22,000
Madagascar—			
Bullion	800	2,600	6,400
Costa Rica—			
Bullion	3,200	5,000	(a)
Mexico—			
Bullion	279,000	245,000	385,000
Nicaragua—			
Bullion, etc.	13,000	14,000	12,000
Concentrates	7,000	6,000	6,000
United States—			
Ore and base bullion ..	3,000	2,000	13,000
Refined bullion ..	5,284,000	3,650,000	18,700,000
Coin	353,000	1,958,000	3,900,000
Argentina—			
Bullion	8,142,000	1,175,000	8,000,000
Brazil—			
Bullion	—	1,482,000	290,000
Coin	—	4,843,000	340,000

(a) Information not available.

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Bolivia			
Ore	—	1,700	26
Bullion	1,700	—	(a)
Coin	212,000	100,000	(a)
Chile—			
Ore, excluding mixed ores	300	10	2,000
Bullion	—	8,000	(a)
Colombia—			
Bullion	226,000	426,000	(a)
Coin	54,000	(a)	(a)
Dutch Guiana—			
Bullion	4,000	5,000	4,000
Ecuador—			
Ore	69,000	70,000	(a)
French Guiana—			
Bullion	49,000	44,000	47,000
Peru—			
Ores, concentrates, etc.	45,000	39,000	34,000
Bullion, etc.	66,000	89,000	46,000
Scrap	100	100	200
Coin	—	60,000	290,000
Venezuela—			
Alluvial	10,000	(a)	(a)
Bullion	32,000	(a)	(a)
China—			
Bullion	91,000	415,000	500,000
Coin	1,000	13,000	—
Formosa—			
Bullion	—	2,000	(a)
French Indo-China—			
Bullion	100	—	50,000
Iraq (years ended Mar. 31 of the year following)—			
Bullion, etc.	37,000	75,000	140,000
Coin	1,900	1,000	60,000
Japan—			
Bullion	—	5,000	2,500,000
Coin	—	7,400,000	7,000,000

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Korea—			
Ore	43,000	26,000	26,000
Bullion	130,500	638,000	942,000
Netherlands East Indies—			
Bullion and scrap ..	87,000	99,000	(a)
Coin	9,000	6,000	(a)
Philippine Islands—			
Ore	900	200	100
Bullion	157,000	178,000	160,000
Coin	9,000	—	—
Siam—			
Bullion	—	—	90,000
Syria and Lebanon—			
Coin	10,000	71,000	2,500

(a) Information not available.

IMPORTS OF GOLD
(In terms of metal)
 (Troy ounces)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore, etc... ..	42,700	53,400	35,700
Bullion—			
Unrefined	539,000	589,000	4,058,000
Refined	8,735,000	10,920,000	12,733,000
Coin	5,012,000	8,147,000	3,924,000
Anglo-Egyptian Sudan—			
Bullion	200	50	—
Coin	16,000	5,000	(a)
Gold Coast—			
Bullion	600	900	—
Kenya and Uganda—			
Ore	5	—	—
Bullion	13,000	11,000	6,400
Coin	370	60	360
Mauritius—			
Coin	160	—	(a)
Nigeria—			
Bullion	530	500	350
Southern Rhodesia—			
Coin	18,700	10,000	36,000
Tanganyika Territory—			
Bullion	280	—	50
Union of South Africa—			
Bullion	200	100	200
Coin	300	2,000	6,000
Zanzibar—			
Bullion	—	—	200

IMPORTS OF GOLD (*Cont.*)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (<i>Cont.</i>)			
Canada—			
Bullion, etc.	36,400	34,000	75,000
Coin	1,242,000	1,670,000	16,000
British Guiana—			
Bullion	20	20	40
Coin	40	—	—
British West Indies—			
Trinidad and Tobago—			
Bullion	—	—	3
Coin	600	50	130
British India (<i>b</i>)—			
Bullion	1,505,000	1,255,000	250,000
Coin	1,674,000	1,538,000	290,000
British Malaya—			
Bullion	212,000	101,000	32,000
Coin	221,000	102,000	22,000
Ceylon—			
Coin	468,000	205,000	149,000
Australia (years ended June 30)—			
Ore, matte, etc. . . .	380	600	10
Bullion, etc.	82,000	64,000	87,000
Coin	100	300	1,000
Fiji—			
Coin	3,000	—	—
New Zealand—			
Bullion, etc.	1,300	400	300
Coin	—	54,000	300
FOREIGN COUNTRIES			
Austria—			
Bullion	242,000	195,000	230,000
Coin	8,000	3,000	20,000
Beaten, rolled or drawn	2,600	2,000	2,000
Belgium-Luxemburg E.U.—			
Bullion, etc.	124,000	160,000	300,000
Beaten, rolled or drawn	2,900	3,500	2,200

(a) Information not available.

IMPORTS OF GOLD (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Bullion	25,000	43,000	50,000
Coin	1,700	1,900	1,400
Denmark—			
Bullion, etc.	3,000	4,000	4,000
Finland—			
Bullion	120	25,600	9,000
Sheet and wire	230	200	100
France—			
Bullion and scrap ..	15,370,000	22,507,000	35,000,000
Coin	1,106,000	834,000	4,000,000
Beaten, rolled or drawn	12,000	13,000	13,000
Germany—			
Ore	2,400	200	20
Scrap	77,000	95,000	300,000
Bullion	4,893,000	4,932,000	3,800,000
Coin	874,000	320,000	100,000
Beaten or rolled ..	600	700	900
Hungary—			
Bullion	23,000	17,000	15,000
Coin	44,000	40,000	30,000
Italy—			
Bullion	148,000	148,000	350,000
Coin	462,000	124,000	550,000
Beaten, rolled or drawn	12,000	16,000	13,000
Jugoslavia —			
Bullion	200	900	5,000
Coin	2,900	2,200	1,600
Beaten, rolled or drawn	1,000	600	500
Latvia—			
Bullion	500	1,100	3,000
Coin	1,000	600	1,400
Lithuania—			
Bullion	100	100	500

IMPORTS OF GOLD (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Netherlands—			
Bullion	248,000	621,000	2,000,000
Coin	64,000	35,000	3,000,000
Norway—			
Bullion	1,000	500	(a)
Sheets and rolled ..	5,000	6,000	(a)
Coin	—	10	(a)
Poland—			
Bullion	48,000	35,000	60,000
Coin	2,300	3,700	70,000
Spain—			
Bullion	400	10	500
Coin	—	200	50
Sweden—			
Bullion	186,000	7,000	12,000
Coin	300	10	1,600
Switzerland—			
Bullion	982,000	1,269,000	8,700,000
Coin	38,000	19,000	2,200,000
Egypt—			
Bullion	200,000	51,000	14,000
Coin	19,000	33,000	40,000
Salvador—			
Coin	35,000	—	(a)
Cuba—			
Bullion	2,400	(a)	(a)
United States—			
Ore and base bullion ..	845,000	850,000	1,600,000
Refined bullion ..	7,648,000	2,732,000	8,100,000
Coin	5,616,000	15,577,000	20,000,000

(a) Information not available.

IMPORTS OF GOLD (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Argentina—			
Bullion	900	2,700	9,000
Brazil—			
Bullion	20	100	10
Coin	80,000	—	400
Colombia—			
Coin	—	(a)	(a)
Venezuela—			
Coin	92,000	(a)	(a)
China—			
Bullion	15,000	38,000	—
Coin	15,000	19,000	150
Formosa—			
Bullion and coin ..	—	35,000	(a)
French Indo-China—			
Bullion	54,000	1,200	600
Drawn and rolled ..	4,400	1,700	400
Iraq (years ended Mar. 31 of the year following)—			
Coin	95,000	50,000	400
Japan—			
Bullion	10,300	216,200	210,000
Coin	—	170	6,000
Korea—			
Bullion	3,300	273,000	518,000
Netherlands East Indies—			
Bullion and scrap ..	57,000	17,000	(a)
Coin	226,000	48,000	(a)
Persia (c)—			
Coin	200	130	100
Philippine Islands—			
Bullion	800	900	700
Coin	20,000	40	3,000
Siam—			
Bullion	51,000	4,000	—
Coin	400	—	100

(a) Information not available.

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

GRAPHITE

PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Union of South Africa ..	52	206	43
Canada (sales)	1,304	1,371	489
Ceylon (exports)	12,739	8,724	6,721
India	39	—	7
Australia	50	—	60
Total ..	14,200	10,300	7,300
FOREIGN COUNTRIES			
Austria	24,897	17,400	11,869
Czechoslovakia	23,277	14,330	1,801
France	694	226	(a)
Germany	21,012	24,602	23,199
Italy	7,352	5,787	3,986
Norway	—	—	868
Russia (years ended Sept.30)	4,500	(a)	(a)
Madagascar	14,600	9,700	4,613
Morocco (French zone) ..	44	1,800	(a)
Mexico	5,630	5,760	3,073
United States (sales)—			
Amorphous	3,174	1,733	(a)
Crystalline	2,592	(a)	(a)
Brazil	15	10	(a)
Japan	303	226	(a)
Korea	24,359	19,672	14,500
Total ..	132,000	108,000	75,000
WORLD'S TOTAL	146,000	118,000	82,000

(a) Information not available.

EXPORTS OF GRAPHITE
(Domestic Produce)
(Long tons)

Exporting Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Crucibles	3,767	3,306	2,480
Canada	1,413	2,159	849
Ceylon	12,739	8,724	6,721
Australia (including foundry-black) (b)	42	40	22
FOREIGN COUNTRIES			
Austria	19,321	14,138	8,862
Belgium-Luxemburg E.U.—			
Crude and ground	90	133	50
Crucibles, etc.	57	111	301
Czechoslovakia	9,733	7,099	4,467
Denmark	81	158	49
France	4,829	3,094	2,142
Germany	5,345	5,248	4,615
Hungary	1	12	2
Italy	3,764	3,397	2,652
Jugoslavia	6	9	136
Poland	41	27	30
Russia	40	2	—
Sweden	3	5	5
Madagascar	15,795	9,076	6,188
Morocco (French zone)	103	139	43
Mexico	5,630	5,760	3,073
United States (including manufactures)	1,441	1,390	1,061
Brazil	15	9	9
French Indo-China	—	87	—
Japan	5,353	3,883	5,287
Korea	24,256	20,631	14,478

(a) Information not available.

(b) Including re-exports.

IMPORTS OF GRAPHITE

(Less Re-exports)

(Long tons)

Importing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Natural	14,041	13,394	10,597
Artificial.. .. .	238	352	118
Crucibles	192	99	45
Southern Rhodesia	7	5	3
Union of South Africa	135	131	161
Canada—			
Unground	(£1,338)	(£417)	(£288)
Ground, including manu- factures	(£16,839)	(£12,675)	(£17,394)
Crucibles	(£13,659)	(£10,769)	(£7,216)
Newfoundland (years ended June 30)	(£26)	(£17)	(£5)
British India (total im- ports)—			
Graphite	511	495	502
Crucibles	180	153	203
Australia (including foundry-black)	511	647	16
New Zealand (£ <i>New Zea- land</i>)—			
Graphite.. .. .	(£1,569)	(£1,657)	(£1,100)
FOREIGN COUNTRIES			
Austria	489	356	261
Belgium-Luxemburg E.U.—			
Crude and ground	1,645	1,490	1,287
Crucibles, etc.	736	512	382
Bulgaria	96	76	140
Czechoslovakia	5,729	3,647	1,410
Denmark—			
Graphite.. .. .	793	883	673
Crucibles	52	57	48
Finland	79	48	51
France	8,239	6,556	3,973
Germany	20,735	14,540	10,286
Hungary	1,479	820	953
Italy	2,417	1,692	1,275
Jugoslavia.. .. .	835	1,333	1,132
Latvia	32	45	25

IMPORTS OF GRAPHITE (*Cont.*)

Importing Country	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Norway—			
Crucibles, etc.	51	45	(a)
Poland	267	149	142
Portugal	10	15	17
Roumania	(a)	626	(a)
Russia	777	663	1,662
Sweden	599	576	398
Algeria	76	7	(a)
Egypt	81	95	71
Tunis—			
Graphite	5	7	5
Crucibles	15	11	5
Mexico	70	65	(a)
United States	21,394	14,934	8,116
Argentina	281	363	278
Chile	96	91	2
Colombia	4	5	(a)
Peru	18	33	49
French Indo-China	16	20	10
Japan (total imports)	1,233	1,426	1,287
Netherlands East Indies	180	109	(a)

(a) Information not available.

GYPSUM

 PRODUCTION OF GYPSUM
 (Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	967,491	838,208	754,895
Union of South Africa	16,973	16,828	14,613
Canada	1,094,400	982,186	788,286
Cyprus	(e) 12,556	12,000	15,300
Palestine	1,475	1,635	483
India	52,726	56,316	53,632
Australia	124,515	(c) 45,276	(c) 26,167
Total ..	2,270,000	(c) 1,950,000	(c) 1,650,000
FOREIGN COUNTRIES			
Austria (d)	42,000	36,760	(a)
Estonia	9,835	1,932	7,727
France	2,529,420	3,015,323	(a)
Germany—			
Bavaria	59,241	41,114	26,737
Prussia (alabaster)	396	287	122
Greece	—	1,343	(a)
Italy (including alabaster)	658,678	674,703	576,592
Jugoslavia (Serbia only) ..	1,585	1,440	(a)
Latvia (exports)	26,629	36,077	32,014
Luxemburg	7,092	10,451	9,117
Roumania (b)	75,414	50,442	(a)
Spain (b)	960,250	1,557,380	(a)
Sweden	120	133	(a)
Algeria (including alabaster)	105,300	164,100	(a)
Belgian Congo	—	—	1,000
Egypt (estimated)	130,000	130,000	130,000
Tunis	19,231	(a)	(a)
United States	4,478,689	3,099,458	2,284,837
Cuba	25,000	26,800	(a)
Argentina	36,051	48,667	(a)
Chile	15,190	16,907	12,965
Peru	19,830	(a)	(a)
China	50,700	61,100	70,400
New Caledonia	7,004	3,082	(a)
Total ..	(f) 9,200,000	(f) 9,000,000	(a)
WORLD'S TOTAL	(f) 11,500,000	(f) 11,000,000	(a)

NOTE:—404,068 long tons of gypsum were recorded as produced in Russia during year ended September, 1928—later figures are not available.

(a) Information not available.

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

(c) Excluding production of Victoria, which is not available, but amounted to 13,195 long tons during 1929.

(d) Estimated by Bundesministerium für Handel und Verkehr.

(e) Exports.

(f) Excluding the production of Russia.

EXPORTS OF GYPSUM

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Calcined	6,958	6,269	7,012
Union of South Africa—			
Crude and calcined ..	1,411	1,253	1,594
Canada—			
Crude	797,719	642,304	552,469
Calcined	7,087	6,501	2,755
Cyprus—			
Crude	337	949	2,195
Calcined	12,219	9,338	9,777
Australia (including re-exports)			
Crude	6,910	3,563	3,772
Calcined	864	949	1,238
FOREIGN COUNTRIES			
Austria—			
Crude and ground	19,813	21,057	17,261
Calcined	17,065	12,234	12,779
Belgium-Luxemburg E.U.—			
Crude	2,981	1,979	2,586
Ground and calcined ..	11,222	7,379	11,203
Alabaster, crude	15	116	15
Czechoslovakia—			
Crude, ground and calcined	22	144	83
Denmark—			
Crude and calcined	4	4	4
Estonia	4,055	1,028	2,949
France	354,115	351,852	266,030
Germany—			
Gypsum and phosphatic gypsum	148,607	139,636	119,465
Hungary—			
Calcined	3	16	13
Italy—			
Crude	22,160	2,222	26,920
Calcined	1,011	947	990
Alabaster, crude	2,086	1,279	696

EXPORTS OF GYPSUM (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Crude and ground	412	2,033	9,808
Latvia—			
Crude	26,422	34,715	30,935
Ground and calcined ..	207	1,362	1,079
Netherlands	136	70	64
Poland—			
Crude	2,764	3,052	1,936
Ground and calcined ..	1,510	922	1,218
Portugal—			
Crude	36	29	20
Sweden—			
Calcined	5	24	25
Switzerland—			
Ground and calcined ..	83	179	135
Algeria	34,820	27,978	14,461
Egypt	33	98	14
Morocco (French zone)—			
Crude	—	177	558
Calcined	202	25	37
Tunis (including re-exports)—			
Calcined	103	10	10
United States—			
Crude and ground	3,777	3,217	4,020
Calcined and manufactures	21,945	17,864	6,048
Argentina	559	296	333
China	3,098	2,129	2,934

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Crude, including alabaster ..	76,991	87,952	87,115
Calcined	7,698	13,780	9,426
Irish Free State—			
Calcined	6,683	7,286	7,857
Southern Rhodesia—			
Crude and calcined ..	682	1,120	1,752
South West Africa	21	4	6
Union of South Africa—			
Crude and calcined	1,043	1,477	2,353
Canada—			
Crude	1,111	802	432
Ground	147	196	141
Calcined	14,604	14,829	9,866
Newfoundland (years ended June 30)—			
Crude and calcined	(£588)	(£527)	(£406)
Palestine (total imports)—			
Crude and calcined	467	810	1,828
Australia—			
Crude and calcined	3,489	1,349	541
New Zealand—			
Crude	6,561	4,550	3,796
Calcined	12,660	11,662	5,553
FOREIGN COUNTRIES			
Austria—			
Crude and ground	994	815	983
Calcined	937	949	1,173
Belgium-Luxemburg E.U.—			
Crude	159,037	174,347	120,204
Ground and calcined ..	49,790	44,970	40,289
Alabaster, crude	48	49	145
Bulgaria—			
Crude	4,467	2,202	504
Calcined		335	205
Czechoslovakia—			
Crude and ground	20,121	14,319	15,378
Calcined	54,007	49,401	46,217
Denmark—			
Crude	20,508	25,114	8,227
Calcined	5,229	4,540	5,062
Estonia	47	331	24

IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Finland—			
Crude	11,974	8,205	5,086
Calcined	12,539	7,391	9,469
France—			
Alabaster	281	112	107
Calcined	7,940	9,457	6,044
Germany—			
Gypsum and phosphatic gypsum	12,269	11,037	6,565
Greece	152	240	333
Hungary—			
Ground	215	262	144
Calcined	22,808	14,354	14,820
Italy—			
Crude	814	1,265	865
Calcined	1,106	1,046	713
Alabaster, crude	6	2	—
Jugoslavia—			
Crude	204	166	17
Ground and calcined	1,270	1,089	574
Latvia—			
Crude and ground	126	95	55
Lithuania—			
Ground and calcined	313	413	402
Netherlands	28,443	27,164	29,046
Norway—			
Crude	9,085	8,534	7,229
Calcined	2,130	2,493	
Poland—			
Crude	45	31	35
Ground and calcined	3,459	3,496	2,361
Portugal—			
Crude	5,791	6,601	5,022
Calcined	932	921	508
Sweden—			
Crude	12,217	17,469	12,019
Ground and calcined	6,693	6,334	6,147
Switzerland—			
Ground and calcined	5,749	3,969	4,283

IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Algeria	6,156	6,713	(a)
Egypt	11,449	8,873	9,105
Morocco	10,626	11,488	9,717
Mozambique—			
Crude	786	751	1,459
Calcined.. .. .	599	145	472
Tunis—			
Alabaster	3	7	7
Calcined	1,052	1,140	1,137
Costa Rica (total imports) ..	14	(a)	(a)
Cuba (total imports)	3,858	(a)	(a)
Panama	—	146	(a)
United States—			
Crude	925,344	805,677	637,393
Ground	2,879	3,828	4,291
Calcined	1,567	2,023	2,170
Argentina	1,858	1,737	1,201
Chile	26	85	30
Colombia—			
Ground	709	258	(a)
Ecuador	35	22	3
Peru—			
Crude	16	11	7
Calcined	12	7	11
Uruguay—			
Ground	1,443	1,049	895
Venezuela—			
Crude	82	(a)	(a)
Manufactured	141	(a)	(a)
Formosa	5,237	2,924	(a)
French Indo-China—			
Crude	5,206	879	1,819
Calcined	276	282	1,043
Alabaster	5	1	28
Japan (total imports).. .. .	22,018	18,032	9,793
Netherlands East Indies	3,772	4,230	(a)
Philippine Islands	1,574	3,927	3,009
Syria and Lebanon	920	1,160	1,098

(a) Information not available.

IRON AND STEEL.

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

Producing Country.	Ore.			Estimated Iron Content.		
	1929	1930	1931	1929	1930	1931
BRITISH EMPIRE						
Great Britain(<i>f</i>) ..	13,214,943	11,627,233	7,625,860	3,964,483	3,604,442	2,364,017
Northern Ireland ..	689	—	—	200	—	—
Northern Rhodesia	3,556	9	759	900	2	200
Southern Rhodesia	3,352	2,484	526	850	600	150
South West Africa	28,244	39,338	21,863	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)
Union of South Africa	37,666	50,846	15,203	16,419	25,866	5,911
Newfoundland ..	1,494,452	1,450,123	587,210	777,000	754,000	305,000
India	2,428,555	1,849,625	1,624,883	1,550,000	1,180,000	1,040,000
Unfederated Malay States	809,518	777,785	691,991	517,500	497,000	441,000
Australia	852,960	936,609	297,651	563,000	618,000	196,000
New Zealand ..	8,043	16,150	(<i>a</i>)	4,300	8,800	(<i>a</i>)
Total ..	18,900,000	16,800,000	10,900,000			
FOREIGN COUNTRIES						
Austria	1,861,509	1,161,808	503,859	587,898	388,780	178,475
Belgium	153,211	128,921	(<i>a</i>)	69,000	58,000	(<i>a</i>)
Czechoslovakia ..	1,779,113	1,626,814	1,215,572	573,788	522,705	388,153
France	49,929,873	48,049,473	38,171,666	18,000,000	17,000,000	13,000,000
Germany (<i>b</i>)	6,272,546	5,648,219	2,579,900	2,047,404	1,816,193	828,200
Greece	249,031	252,115	(<i>a</i>)	121,339	119,467	(<i>a</i>)
Hungary	247,736	154,854	82,706	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)

* For detailed figures see page 157.

(*a*) Information not available.

(*b*) Including manganiferous ore as follows:—

	Under 12% Mn	12-30% Mn
1929 ..	3,079,666 long tons.	179,096 long tons.
1930 ..	3,016,423 „ „	79,014 „ „
1931 ..	2,533,395 „ „	46,505 „ „

(*f*) In addition bog ore and iron ore (not used for iron making) were produced as follows:—

1929	10,426 long tons.
1930	9,524 „ „
1931	10,281 „ „

PRODUCTION OF IRON ORE (Cont.)

Producing Country.	Ore.			Estimated Iron Content.		
	1929	1930	1931	1929	1930	1931
FOREIGN COUNTRIES						
—(Cont.).						
Italy (c)	710,606	717,849	565,675	326,077	352,974	275,200
Jugoslavia	421,186	424,378	131,009	232,000	233,000	72,000
Luxemburg	7,451,629	6,544,354	4,689,671	2,251,137	1,967,233	1,434,296
Norway	734,328	760,224	565,807	481,436	498,467	372,232
Poland	649,151	469,610	280,000	182,000	131,000	73,000
Portugal	11,580	—	—	6,250	—	—
Roumania	88,592	91,056	(a)	39,000	40,000	(a)
Russia	7,724,700	10,260,000	10,444,600	(a)	(a)	(a)
Spain	6,455,471	5,437,519	3,079,409	3,134,700	2,570,000	1,480,000
Sweden	11,286,437	11,058,964	6,959,193	6,842,000	6,740,000	4,245,000
Switzerland						
(exports)	87,048	100,316	33,698	(a)	(a)	(a)
Algeria	2,161,514	2,196,619	884,627	1,080,748	1,098,370	442,300
Belgian Congo ..	50,000	55,000	19,000	(a)	(a)	(a)
Morocco (Spanish)	1,227,357	(a)	(a)	663,000	(a)	(a)
Tunis	958,000	815,000	439,500	500,000	430,000	230,000
Cuba (shipments) ..	671,320	190,654	(a)	377,000	105,000	(a)
United States (d) ..	74,215,978	59,194,054	31,412,916	37,000,000	29,600,000	15,700,000
Brazil (estimated)	30,000	30,000	30,000	20,000	20,000	20,000
Chile	1,783,807	1,693,349	701,000	1,177,313	1,117,611	463,000
China	2,630,200	2,225,500	2,206,800	(a)	(a)	(a)
Japan	174,752	242,106	(a)	(a)	(a)	(a)
Korea	550,386	572,769	(a)	308,000	321,000	(a)
Turkey	—	—	492	—	—	(a)
Total (e) ..	181,000,000	161,000,000	108,000,000			
World's Total (e) ..	200,000,000	178,000,000	119,000,000			

(a) Information not available.

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

1929	6,730 long tons.
1930	11,066 „ „
1931	13,700 „ „

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

	5-10 per cent. Mn	10-35 per cent. Mn
1929 ..	1,110,067 long tons.	78,191 long tons.
1930 ..	707,973 „ „	77,417 „ „

1931 .. 281,414 long tons.

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

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES.

Producing Country	1929	1930	1931
Great Britain—			
West Coast hematite ..	1,391,756	1,134,088	709,143
Jurassic ironstones—			
Lower lias	2,842,387	2,460,713	1,423,172
Middle lias	4,475,238	3,825,712	2,553,020
Inferior oolite ..	3,880,380	3,716,669	2,850,822
Coal measure ironstones	417,041	350,603	72,657
Other iron ore (hematite, limonite, etc.) ..	208,141	139,448	17,046
Northern Ireland—			
Hematite and limonite ..	689	—	—
Belgium—			
Oolitic limonite and hematite	145,918	121,087	(a)
Limonite	7,293	7,834	(a)
France (b)—			
By phosphorus content—			
To 0.075 %	217,785	193,023	104,564
Over 0.075 % to 1.7 %	2,472,297	2,220,580	1,957,810
Over 1.7 %	47,239,791	45,273,373	35,806,173
Germany—			
Limonite (under 12 % Mn)	3,079,666	3,016,424	(a)
Limonite (12–30 % Mn)	179,096	79,014	(a)
Hematite	642,617	480,570	(a)
Siderite	2,075,758	1,812,023	(a)
Magnetic iron ore ..	18,421	—	(a)
Argillaceous and car- bonaceous ironstone ..	7,922	2,423	(a)
Flux ironstone	124,519	102,081	(a)
Bog iron ore	495	399	(a)
Other ores	144,052	155,285	(a)
By phosphorus content—			
To 0.05 %	2,188,606	1,878,396	(a)
Over 0.05 to 0.1 % ..	229,394	363,451	(a)
Over 0.1 to 0.5 % ..	1,699,610	1,302,387	(a)
Over 0.5 to 0.75 % ..	232,353	233,137	(a)
Over 0.75 to 1.0 % ..	1,049,356	1,047,397	(a)
Over 1.0 %	873,227	823,451	(a)
Greece—			
Iron ore	249,029	252,115	(a)
Manganiferous iron ore ..	2	—	(a)
Italy—			
Iron ore	703,876	706,782	551,995
Manganiferous iron ore ..	6,730	11,067	13,680

(a) Information not available.

(b) Sales.

DETAILS OF PRODUCTION OF IRON ORE (Cont.)

Producing Country	1929	1930	1931
Luxemburg—			
Siliceous iron ore ..	4,067,984	3,760,035	2,902,237
Calcareous iron ore ..	3,151,777	2,585,137	1,691,696
Ferruginous limestones..	231,868	199,182	95,738
By phosphorus content—			
From 0.5 to 0.6 % ..	2,019,156	1,701,873	1,178,756
From 0.6 to 0.7 % ..	5,432,473	4,842,481	3,510,915
Poland—			
Limonite	64,798	42,561	(a)
Argillaceous iron ore ..	584,353	427,049	(a)
Portugal—			
Hematite	11,580	—	—
Roumania—			
Limonite, siderite and magnetite	88,592	91,056	(a)
Sweden—			
By phosphorus content—			
Under 0.01% ..	747,814	774,091	(a)
0.01% to under 0.05 %	1,314,311	1,094,433	(a)
0.05% to under 0.1 %	287,402	376,641	(a)
0.1% to under 0.6 %	1,206,887	1,179,453	(a)
0.6% to under 1.0 %	3,135,629	3,251,637	(a)
1% and over	4,594,394	4,382,709	(a)
Algeria—			
Non-phosphoric	2,130,728	2,170,354	884,627
Moderately phosphoric..	30,786	26,265	—
United States—			
Ore containing 5 % Mn—			
Hematite*	69,849,231	55,265,954	29,665,475
Magnetite*	2,401,104	2,421,211	1,105,249
Limonite	775,610	720,496	359,960
Siderite	1,775	1,003	818
Ore containing 5 to 10 % Mn	1,110,067	707,973	} 281,414
Ore containing 10 to 35 % Mn	78,191	77,417	

* Some hematite is included with magnetite.

(a) Information not available.

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

Exporting Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	6,586	4,304	1,499
Irish Free State (<i>d</i>) ..	29,078	26,304	(<i>a</i>)
Newfoundland	1,516,999	1,177,961	(<i>e</i>) 974,223
British India (<i>c</i>)	—	903	114
British Malaya (<i>c</i>)	809,753	778,074	692,178
Australia (<i>c</i>)	—	414,713	58,494
FOREIGN COUNTRIES			
Austria	260,217	225,038	45,763
Belgium-Luxemburg E.U.	805,035	501,032	323,891
Czechoslovakia	346,498	250,098	150,587
France	16,145,603	14,841,458	12,211,245
Germany	114,065	74,582	30,832
Greece	131,298	201,191	128,882
Hungary (including burnt pyrites)	45,724	27,606	9,335
Italy	21,118	2,445	189
Jugoslavia	381,961	350,358	26,480
Netherlands	2,891	2,064	138
Norway	723,339	621,850	342,408
Poland	97,494	80,139	44,120
Portugal	9,314	—	—
Roumania	(<i>a</i>)	23,681	(<i>a</i>)
Russia	536,593	459,249	1,101,433
Spain (<i>c</i>)	5,506,179	3,665,441	1,843,298
Sweden	10,726,833	9,238,271	4,425,263
Switzerland (<i>b</i>)	87,048	100,316	33,698
Algeria	2,107,515	1,604,466	905,911
Belgian Congo	—	802	—
Morocco (French zone) ..	—	2,954	2
Tunis (<i>c</i>)	959,026	738,392	435,921
Cuba (<i>c</i>)	73,963	(<i>a</i>)	(<i>a</i>)
Mexico	—	140	1,366
United States	1,304,417	752,267	435,665
Brazil	—	11	346
Chile	1,787,277	1,693,349	700,755
Peru	99	—	—
China	964,276	835,900	584,943
Korea	309,170	283,182	173,796
Turkey	3,451	—	—

(*a*) Information not available.

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

(*c*) Including re-exports.

(*d*) Burnt pyrites.

(*e*) Year ended 30th June, 1931.

IMPORTS OF IRON ORE

(Less Re-exports)

(Long tons)

Importing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	5,689,342	4,137,899	2,118,716
Canada	2,185,542	1,326,276	721,804
British India (b)	24	35	52
British Malaya (b)	—	62	—
FOREIGN COUNTRIES			
Austria	1,857	2,256	624
Belgium-Luxemburg E.U.	13,835,012	12,657,341	10,499,951
Czechoslovakia	1,615,235	1,451,554	1,290,175
Denmark	106	162	107
Finland	266	351	41
France	1,123,401	995,565	769,331
Germany	16,685,077	13,670,496	6,959,168
Hungary (including burnt pyrites)	561,737	429,756	175,867
Italy	208,628	232,107	156,963
Jugoslavia	41	49	975
Netherlands	453,646	525,610	460,890
Norway	11,098	8,361	(a)
Poland	524,870	240,945	257,983
Roumania	(a)	20,769	(a)
Spain (b)	953	49	2,522
Sweden	—	28	29
Switzerland (c)	48,770	53,196	41,604
Algeria	3,760	2,110	(a)
Tunis	12,857	4,345	8,539
United States	3,139,334	2,775,124	1,465,613
Chile	141	60	1
Japan (b)	1,914,070	1,942,488	1,525,400
Korea	38,221	27,140	3,266
Turkey	39	169	—

(a) Information not available.

(b) Total imports.

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

TOTAL IMPORTS OF IRON ORE INTO THE UNITED KINGDOM BY PORTS

(Long tons)

Port	1929	1930	1931
ENGLAND AND WALES			
North-East—			
Grimsby, including Im- mingham	277,891	286,970	107,000
Hartlepool	23,500	120	302
Middlesbrough	1,965,181	1,276,970	721,528
Newcastle, including			
Shields	499,511	466,206	207,974
Stockton.. ..	774	746	500
Sunderland	53,129	84,895	17,130
North-West—			
Barrow-in-Furness	—	120,019	84,695
Liverpool	169,399	106,781	59,421
Manchester	103,219	103,110	50,698
South-West—			
Cardiff	648,474	469,595	254,625
Newport.. ..	473,387	3,079	1,069
Port Talbot	262,981	340,450	275,460
Swansea.. ..	—	—	4,850
SCOTLAND			
Ardrossan	208,149	70,872	—
Glasgow	447,246	400,819	87,902
Grangemouth	247,585	224,656	60,375

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

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	7,589,300	6,192,400	3,772,600
Union of South Africa ..	16,249	29,255	8,799
Canada	1,169,276	812,401	466,802
India	1,395,171	1,179,868	1,072,418
Australia (c)	330,000	440,000	380,000
New Zealand	4,393	8,075	3,460
Total ..	10,500,000	8,700,000	5,700,000
FOREIGN COUNTRIES			
Austria	451,724	292,136	142,726
Belgium	3,976,715	3,312,091	3,180,542
Czechoslovakia	1,618,542	1,414,392	1,146,331
Finland	10,508	10,215	12,134
France—			
Saar	2,071,695	1,882,240	1,491,495
Other districts	10,198,417	9,876,608	8,069,357
Germany	13,030,356	9,545,248	5,967,291
Hungary	362,140	253,164	157,109
Italy	714,841	578,314	544,824
Jugoslavia	30,397	34,458	37,166
Luxemburg	2,860,195	2,433,852	2,020,672
Netherlands	249,768	268,411	252,662
Norway	150,972	142,549	(a)
Poland	694,389	470,399	341,632
Roumania	71,203	67,756	(a)
Russia	4,278,100	4,921,500	4,778,800
Spain	740,732	612,069	483,292
Sweden	515,556	488,570	410,912
Mexico	59,279	56,913	(a)
United States	42,613,983	31,752,169	18,426,354
Japan (b)	1,536,783	1,660,779	1,385,959
Korea	153,058	148,987	(a)
Manchuria	289,512	342,557	(a)
Philippine Islands ..	200	170	(a)
Total ..	86,700,000	69,700,000	49,600,000
WORLD'S TOTAL	97,200,000	78,400,000	55,300,000

* For details see page 163.

(a) Information not available.

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

(c) Figures of *American Iron and Steel Institute*.

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

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Hematite	2,347,900	1,841,000	879,200
Basic	3,196,500	2,407,600	1,435,500
Foundry	1,473,200	1,433,700	1,153,600
Forge	275,200	282,500	174,600
Other kinds of pig-iron	117,800	94,400	61,400
Spiegeleisen	26,300	30,500	9,300
Ferro-manganese	149,800	99,300	57,400
Ferro-silicon	2,600	2,200	1,600
Ferro-silicon-manganese	—	1,200	—
Canada—			
Basic	770,478	494,231	311,850
Foundry	221,644	193,074	80,892
Malleable	88,038	59,873	27,296
Ferro-alloys	89,116	65,223	46,764
India—			
Basic	307,584	301,625	519,530
Foundry and forge	1,079,479	873,238	538,522
Direct castings	4,478	429	—
Ferro-manganese	3,630	4,576	14,366
FOREIGN COUNTRIES			
Austria—			
Basic	434,040	280,877	142,431
Foundry	17,684	11,259	295
Belgium—			
Basic	3,776,853	3,015,539	(a)
Foundry, hematite	32,282	56,474	(a)
phosphoric	113,213	124,837	(a)
Forge	40,687	91,817	(a)
Ferro-alloys	13,680	23,424	(a)
Czechoslovakia—			
Open hearth	1,010,215	931,547	767,007
Bessemer	353,039	283,110	233,485
Foundry	243,850	185,960	121,193
Spiegeleisen	7,344	3,929	6,328
Ferro-manganese	4,094	9,846	18,318
Finland—			
Open hearth	3,613	3,164	2,807
Foundry	2,890	225	2,121
Ferro-silicon	4,005	6,826	7,057
Ferro-tungsten	—	—	149
France—			
Saar—			
Basic	1,867,768	1,662,847	1,330,075
Foundry and castings	203,927	219,393	161,420

(a) Information not available.

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

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France (Cont.)—			
Other districts—			
Phosphoric (over 1%P)			
Basic	7,856,352	7,555,567	6,255,282
Foundry	1,237,950	1,208,447	924,912
Other kinds	10,356	4,369	5,079
Semi-phosphoric (over 0·12% to 1% P)—			
Foundry	161,295	111,632	108,797
Open hearth		37,979	20,958
Hematite (0·12% or less P)—			
Foundry	354,141	358,802	288,071
Open hearth	342,606	349,501	275,804
Bessemer	12,573	16,483	18,574
Spiegeleisen	106,496	97,911	84,635
Ferro-manganese	70,554	76,132	53,194
Ferro-silicon	32,289	43,430	25,690
Other ferro-alloys	13,805	16,355	8,361
Germany—			
Basic	8,271,744	6,092,278	4,011,307
Bessemer	29,711	1,467	—
Foundry	2,187,075	1,606,695	784,241
Forge, etc.	11,315	5,081	26,319
Manganese pig-iron (b) and ferro-alloys			
	2,530,511	1,839,726	1,145,424
Italy—			
Coke iron	533,041	438,235	390,808
Electric	13,252	25,141	43,754
Other kinds	114,272	65,555	67,783
Spiegeleisen	15,872	13,871	9,639
Ferro-manganese	18,859	14,647	9,663
Ferro-silicon	12,393	15,427	16,290
Other ferro-alloys	7,152	5,438	6,887
Luxemburg—			
Basic	2,814,092	2,383,134	1,995,627
Foundry	41,965	50,339	25,045
Forge	4,138	379	—
Norway—			
Electric	19,569	21,801	12,659
Ferro-silicon	131,403	35,901	31,292
Other ferro-alloys		84,847	73,009

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

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Poland—			
Foundry.. .. .	142,123	90,713	(a)
Basic	2,418	1,037	(a)
Acid	506,085	352,750	(a)
Castings	5,771	418	(a)
Ferro-alloys	37,992	25,481	(a)
Spain—			
Pig-iron	737,108	605,861	468,318
Ferro-manganese	3,624	6,102	9,815
Ferro-silicon	—	106	3,537
Ferro-silicon-manganese	—	—	1,622
Sweden—			
Open hearth, acid	162,805	150,689	124,609
basic	60,211	54,936	54,038
Bessemer, acid	27,267	20,987	14,250
basic.. .. .	108,036	118,492	107,746
Foundry	71,637	65,380	60,603
Forge	41,265	32,924	16,132
Castings	10,722	9,110	5,710
Ferro-manganese	2,618	2,958	} 27,824
Ferro-silicon	18,346	17,325	
Ferro-chrome	9,750	9,561	
Other ferro-alloys	2,899	6,208	
United States—			
Basic	24,911,654	18,393,384	10,174,447
Bessemer and low phos- phorus	9,877,240	7,314,749	4,635,648
Foundry.. .. .	4,446,011	3,622,779	2,133,939
Forge	167,930	50,696	36,482
Malleable	2,312,813	1,571,512	945,664
Other pig-iron	41,567	67,787	31,599
Ferro-manganese and spiegeleisen	476,655	362,386	234,858
Ferro-silicon	341,222	337,640	211,234
Other ferro-alloys	38,891	31,236	22,483
Japan—			
Pig-iron	(a)	1,634,860	(a)
Ferro-alloys	(a)	25,919	(a)

(a) Information not available.

(b) Containing 4-8 % manganese.

PRODUCTION OF STEEL INGOTS AND CASTINGS*

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	9,636,200	7,325,700	5,202,600
Union of South Africa (b)	38,269	38,956	42,663
Canada	1,378,024	1,009,578	672,109
India	575,310	618,922	625,148
Australia (c)	348,000	420,000	150,000
Total ..	12,000,000	9,400,000	6,700,000
FOREIGN COUNTRIES			
Austria	621,952	460,314	317,266
Belgium	4,044,596	3,301,196	3,073,372
Czechoslovakia	2,158,759	1,788,509	1,490,159
France—			
Saar	2,174,022	1,904,237	1,514,050
Other districts	9,545,765	9,297,366	7,698,095
Germany	15,769,785	11,191,422	8,160,301
Hungary	505,362	363,554	311,297
Italy	2,088,677	1,715,817	1,503,115
Luxemburg	2,659,579	2,234,042	2,002,814
Norway	3,800	3,122	1,802
Poland	1,354,970	1,217,952	1,020,641
Russia	4,801,000	5,706,600	5,330,000
Spain	987,611	909,932	(a)
Sweden	682,959	601,177	530,719
Mexico	110,777	111,929	(a)
United States	56,433,473	40,699,483	25,945,501
Japan	2,306,058	2,289,483	1,834,660
China (estimated)	30,000	30,000	30,000
Total ..	106,300,000	83,800,000	61,800,000
WORLD'S TOTAL ..	118,300,000	93,200,000	68,500,000

* For details see page 167.

(a) Information not available.

(b) Including rails, fishplates, etc.

(c) Figures of *American Iron and Steel Institute*.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS IN
CERTAIN COUNTRIES

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ingots—			
Open hearth, acid ..	2,403,800	1,761,000	1,155,100
basic ..	6,480,200	5,091,100	3,777,400
Converter, acid ..	527,700	255,300	113,000
Electric ..	56,600	40,400	27,800
Castings, electric ..	30,200	35,600	25,500
other ..	137,700	142,300	103,800
Canada—			
Ingots, open hearth ..	1,295,162	925,427	612,437
electric ..	14,444	31,461	25,017
Castings—			
Open hearth, basic ..	35,806	24,772	14,741
acid ..	—	—	19
Bessemer ..	2,590	2,314	590
Electric ..	30,022	25,604	19,305
India—			
Ingots—			
Open hearth, basic ..	252,153	234,279	216,246
Duplex steel (b) ..	319,423	381,571	405,307
Castings ..	3,734	3,072	3,595
FOREIGN COUNTRIES			
Austria—			
Open hearth ..	533,515	389,656	251,720
Electric ..	88,437	70,658	65,546
Belgium—			
Ingots, open hearth ..	394,056	362,198	} 3,008,178
Bessemer basic ..	3,538,291	2,839,967	
electric ..	13,523	15,629	
Castings, open hearth ..	24,113	15,550	} 65,194
converter ..	73,245	66,208	
electric ..	1,368	1,644	
Czechoslovakia—			
Ingots—			
Open hearth, acid ..	31,059	24,662	16,979
basic ..	1,757,879	1,476,036	1,235,102
Bessemer, acid ..	192	322	132
basic ..	252,035	211,314	174,673
Electric ..	70,093	41,487	38,716
Crucible ..	59	21	14
Castings ..	47,442	34,667	24,543

(a) Information not available.

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

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

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France—			
Saar—			
Open hearth, basic (b)	535,805	448,575	401,097
Bessemer	1,616,406	1,432,492	1,098,646
Castings, acid ..	5,904	8,273	3,717
basic	15,907	14,897	10,590
Other districts—			
Ingots—			
Open hearth, acid ..	21,220	28,232	25,555
basic	2,567,192	2,391,763	1,910,544
Bessemer, acid ..	1	—	—
basic	6,571,897	6,463,446	5,398,104
Crucible	15,658	8,966	4,450
Electric	136,757	137,272	137,415
Castings—			
Open hearth	120,947	135,787	115,864
Bessemer	99,362	117,085	86,640
Crucible	871	826	394
Electric	11,860	13,989	19,129
Germany—			
Ingots—			
Open hearth, acid ..	143,625	107,160	76,629
basic	8,057,606	5,809,903	4,630,773
Bessemer, acid ..	2	—	15
basic	7,273,756	5,051,100	3,171,410
Crucible	8,471	5,235	115,253
Electric	129,185	93,835	
Castings	157,140	124,189	166,221
Hungary—			
Open hearth	487,785	338,097	289,678
Electric	17,577	25,457	21,619
Italy—			
Ingots, open hearth ..	1,829,148	1,497,159	1,343,033
electric	207,753	169,074	116,025
Castings, open hearth ..	9,832	11,408	44,057
Bessemer	495	462	
electric	41,449	37,714	
Luxemburg—			
Ingots, open hearth ..	22,180	5,544	4,738
Bessemer, basic ..	2,627,594	2,224,578	1,995,288
Electric	9,805	3,920	2,788

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

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Poland—			
Open hearth	1,307,000	1,181,599	(a)
Electric	18,028	13,982	(a)
Castings	29,800	22,371	(a)
Spain—			
Open hearth	613,155	686,703	(a)
Bessemer	355,700	201,664	(a)
Electric	18,756	21,565	(a)
Sweden—			
Open hearth	488,283	399,509	336,382
Bessemer	82,406	86,109	79,671
Crucible	1,348	1,001	265
Electric	110,922	114,558	114,401
United States—			
Ingots—			
Open hearth, acid ..	576,393	367,181	} 22,181,321
basic ..	46,644,206	33,898,518	
Bessemer	7,091,680	5,020,588	3,011,394
Crucible	5,762	1,563	831
Electric	532,392	307,418	235,376
Castings—			
Open hearth, acid ..	544,076	413,675	} 328,245
basic ..	588,213	369,798	
Bessemer	30,829	14,871	12,052
Crucible	883	690	716
Electric	419,039	305,181	175,566
Japan—			
Ingots—			
Open hearth	2,202,867	2,190,303	(a)
Bessemer	1,031	34	(a)
Crucible	1,750	1,684	(a)
Electric	51,963	61,159	(a)
Castings	48,447	36,303	(a)

(a) Information not available.

(b) Including electric.

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

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Pig-iron—			
Forge and foundry ..	199,001	143,484	81,644
Acid	246,904	126,923	108,583
Basic	9,685	780	42
Spiegeleisen and ferro-manganese	88,173	45,042	10,633
Ferro-silicon	475	152	216
Other ferro-alloys ..	879	808	1,298
Iron and steel ingots (b)	2,092	1,096	1,302
Blooms, billets and slabs (b)—			
Iron	43	706	112
Steel	13,522	6,833	6,029
Special steel	2,092	1,096	1,302
Old and scrap	423,950	179,036	173,660
Irish Free State—			
Old and scrap	41,366	24,037	20,203
Canada—			
Pig-iron	7,478	593	2,787
Ferro-silicon	27,652	14,577	3,191
Ferro-manganese, spiegeleisen and other ferro-alloys	34,044	24,277	15,504
Billets, ingots and blooms	464	1,923	—
Scrap	123,546	37,898	23,968
British India—			
Pig-iron	548,881	502,629	318,694
Ferro-manganese ..	4,198	—	—
Old and scrap	78,587	63,063	87,240
British Malaya (including re-exports)—			
Pig-iron	47	50	11
Scrap	6,541	5,569	5,069

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
Australia (including re-exports)—			
Pig-iron	20	5	1,173
Ingots, blooms, slabs, etc.	—	4	51
New Zealand—			
Pig-iron	—	4	—
FOREIGN COUNTRIES			
Austria—			
Pig iron	42,283	31,418	13,381
Ferro-silicon	6,359	5,073	2,338
Other ferro-alloys ..	171	138	111
Iron ingots, blooms and bars	10,917	5,222	3,534
Steel ingots, blooms and bars	6,298	2,461	1,939
Old waste and scrap ..	21,499	8,328	19,725
Belgium-Luxemburg E.U.—			
Pig-iron	119,130	113,587	69,031
Steel ingots	34,742	11,036	6,939
Blooms and billets ..	438,888	375,508	483,070
Old and scrap	305,139	376,947	189,873
Czechoslovakia—			
Pig-iron—			
Foundry	48,465	22,241	7,346
For refining or puddling	276	—	1,781
Spiegeleisen	1,549	873	415
Ferro-alloys	41	2,247	8,059
Iron blooms	30	—	—
Steel ingots	174	66	38
Billets of cast iron ..	34,088	25,941	4,552
Billets, blooms and bars of puddled iron ..	16,361	8,574	10,815
Old waste and scrap ..	2,278	1,835	906

(b) Other than special steel.

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

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Old and scrap	74,422	71,936	50,052
Estonia—			
Old and scrap	3	—	10
Finland—			
Pig-iron and ferro-alloys	4,261	7,391	8,927
Old and scrap	5,036	2,401	7
France—			
Pig-iron—			
Forged or refined ..	552,863	517,747	410,279
Spiegeleisen	806	993	6,101
Ferro-manganese ..	3,014	3,465	2,262
Ferro-silicon	5,631	5,384	6,904
Ferro-chrome	320	140	375
Other ferro-alloys ..	1,079	697	1,429
Steel ingots, crude ..	39,999	67,311	73,945
Blooms and billets, forged or rolled ..	448,287	558,782	382,330
Tool steel	1,596	1,187	1,354
Machine iron or steel ..	224,526	161,087	147,401
Other special steel ..	2,383	1,360	1,317
Waste, old rails of pig- iron	13,996	5,496	24,183
Do., and filings of iron and steel	312,820	305,254	324,256
Germany—			
Pig-iron	381,632	198,734	175,233
Ferro-manganese ..	19,824	9,812	14,129
Ferro-silicon	19	25	811
Other ferro-alloys ..	47,123	28,877	12,655
Rough blooms, bars, in- got, etc.	460,496	386,805	402,504
Old and scrap	234,133	249,633	304,046
Greece—			
Old and scrap	4,769	4,892	2,088
Italy—			
Pig-iron	46	6	41
Ferro-manganese ..	1,155	1,348	559

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

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Italy (Cont.)—			
Ferro-chrome	—	—	260
Ferro-silicon	1,067	808	910
Other ferro-alloys	3,456	845	956
Crude iron ingots	33	2	1
Steel ingots	40	—	5
Blooms and loops	1	—	33
Old and scrap	15	57	17
Jugoslavia—			
Ferro-silicon	3,236	1,826	2,122
Ferro-manganese-silicon	103	—	—
Ferro-manganese	—	—	1,210
Crude iron in ingots	306	35	56
Crude steel	317	—	—
Special steel	16	270	260
Scrap and filings	11	9	15
Netherlands—			
Pig-iron and ferro-alloys	176,444	206,414	219,338
Ingots, blooms and billets	13,955	7,842	6,853
Old iron and scrap	259,126	153,546	154,359
Norway—			
Pig-iron—electric	11,635	10,708	7,648
Ferro-chrome	3,809	4,076	4,779
Ferro-manganese	67,892	47,092	31,524
Ferro-silicon	40,250	27,262	26,634
Phosphor-iron	264	727	(a)
Other ferro-alloys	6,880	4,338	(a)
Steel	1,225	1,148	(a)
Old and scrap	41,052	26,269	(a)
Poland			
Pig-iron—Foundry	10	4	—
Refined	177	69	—
Ferro-manganese	4,410	1,319	1,587
Other ferro-alloys	—	77	5
Other pig-iron	1	90	2
Blooms and billets	2,026	1,437	5,201
Old and scrap	2,517	2,254	2,075

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

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Roumania—			
Pig-iron	(a)	2,470	(a)
Tool steel	(a)	14	(a)
Old and scrap .. .	(a)	142	(a)
Russia—			
Pig-iron	343	2,099	1,673
Steel	1,752	592	14
Spain—			
Pig-iron	1,478	10	—
Ferro-alloys	—	3	—
Crude iron and steel in ingots and blooms ..	14	—	—
Fine carbon tool steel ..	2	3	—
Iron and steel scrap ..	150	64	24
Sweden—			
Pig-iron	69,994	46,398	39,836
Granular iron	50	42	6
Ferro-manganese and spiegeleisen	871	685	669
Ferro-silicon and ferro- manganese-silicon ..	20,636	13,823	10,616
Ferro-chrome	8,195	5,752	5,911
Other pig-iron and ferro- alloys	1,924	2,017	964
Steel ingots	3,985	3,168	1,759
Steel blooms	1,190	500	648
Tool steel	1,726	821	541
Old and scrap	9,603	4,361	2,331
Switzerland—			
Ferro-chrome and ferro- silicon	6,345	4,513	3,942
Old filings and scrap ..	85,778	64,227	69,271
Algeria—			
Tool steel	3	—	(a)
Old, filings and scrap ..	16,616	10,106	(a)
Egypt (total exports)—			
Scrap	25,489	8,062	14,311

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

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Morocco—			
Old and scrap	3,871	3,442	1,570
United States—			
Pig-iron	46,357	13,671	6,719
Ferro-manganese and spiegeleisen	1,574	6,189	1,306
Ferro-tungsten and tungsten	46	13	472
Steel ingots, slabs, blooms, billets and sheet bar ..	42,578	17,032	7,965
Old and scrap (including tin-plate scrap) ..	557,044	358,649	136,125
Argentina—			
Old and scrap	95,459	47,914	—
Chile—			
Ingots	30	3	(a)
Old and scrap	3,090	188	(a)
Cuba—			
Old and scrap	53,439	(a)	(a)
China—			
Pig-iron	202,226	180,564	247,062
Old and scrap	(£29,802)	(£29,500)	(£19,648)
French Indo-China—			
Pig-iron and spiegeleisen	27	18	22
Steel ingots, billets and brass	37	37	8
Tool steel	2	—	—
Old and scrap	2,610	3,556	659
Japan—			
Ingots	239	166	342
Old and scrap	15,317	9,505	8,863

(a) Information not available.

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

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Korea— Pig-iron	137,610	109,898	94,925
Netherlands East Indies— Old and scrap	35,068	21,793	(a)
Persia (years ended Mar. 31 following)— Ingots, old and scrap ..	643	143	1,526
Philippine Islands— Old and scrap	2,024	1,497	847
Turkey— Old and scrap	9,046	3,152	2,783

(a) Information not available.

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

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Pig-iron—			
Forge	1,989	1,142	498
Foundry	45,518	117,498	109,348
Acid	2,628	205	24,346
Basic	71,886	171,668	149,730
Spiegeleisen and ferro- manganese	6,251	5,516	7,600
Other ferro-alloys	24,662	16,085	14,956
Iron and steel ingots <i>(b)</i>	41,647	34,671	21,647
Blooms, billets, slabs <i>(b)</i>—			
Iron	5,245	5,928	103
Steel	572,316	565,643	530,016
Special steel	2,867	1,851	1,776
Old and scrap	66,669	214,016	95,658
Irish Free State—			
Pig-iron	16,090	19,420	10,169
Anglo-Egyptian Sudan—			
Pig-iron	(£1,298)	(£726)	(£149)
Mauritius—			
Pig-iron	61	46	(a)
Northern Rhodesia—			
Pig, ingots, blocks, slabs, etc.	30	23	11
South West Africa—			
Pig-iron	41	20	3
Union of South Africa—			
Pig-iron, including steel ingots	6,147	9,464	9,010
Ferro-silicon	149	251	164
Ferro-manganese	445	548	609
Other ferro-alloys	34	57	77

(a) Information not available.

(b) Other than special steel.

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
Canada—			
Pig-iron	32,548	13,643	7,913
Ferro-silicon	618	205	83
Ferro-manganese, spie- geleisen and other ferro- alloys	7,560	3,700	2,708
Ingots, blooms and billets	33,048	8,722	9,645
Chrome steel	3,135	1,995	—
Scrap	108,298	106,316	67,931
Newfoundland (years ended June 30)—			
Pig-iron	(£1,976)	(£2,634)	(£1,124)
British India (total im- ports)—			
Pig-iron	2,840	3,106	1,283
Ferro-alloys	(a)	(c) 758	1,502
Old	1,718	3,089	2,303
British Malaya (total im- ports)—			
Pig-iron	3,790	3,977	1,686
Scrap	940	573	70
Ceylon—			
Pig-iron	918	648	402
Cyprus—			
Pig-iron	90	71	99
Palestine (total imports)—			
Pig-iron	220	107	78
Australia—			
Pig-iron	5,247	2,276	1,053
Ferro-alloys (d)		2,020	761
Ingots and billets of high grade carbon and alloy steels (d)	660	23	21
Ingots, blooms, billets, etc. (d)	3,295	3,678	1,481
Scrap (d)	5,009	3,979	218

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
New Zealand—			
Pig-iron	5,484	4,320	5,158
FOREIGN COUNTRIES			
Austria—			
Pig-iron	35,220	21,951	17,906
Ferro-silicon	622	264	427
Other ferro-alloys ..	5,595	4,108	3,259
Iron ingots, blooms and bars	247	766	69
Steel ingots, blooms and bars	2,790	1,014	2,146
Old and scrap	6,172	4,581	7,117
Bulgaria—			
Pig-iron	4,996	4,092	3,180
Belgium-Luxemburg E.U.—			
Pig-iron	663,144	393,381	296,732
Steel ingots	4,915	8,330	801
Blooms and billets ..	153,711	112,634	73,357
Old and scrap	142,453	73,629	193,339
Czechoslovakia—			
Pig-iron—			
Foundry	26,455	11,866	9,973
For refining or puddling	29,816	26,475	20,294
Ferro-alloys	22,228	12,534	5,700
Iron blooms	20	—	—
Steel ingots	462	225	61
Billets of cast iron ..	319	295	139
Billets, blooms, bars of puddled iron	263	423	185
Old and scrap	275,191	64,974	28,989
Denmark—			
Pig-iron	52,322	50,661	31,363
Ingots	26	5	7
Ferro-alloys	498	471	268
Old and scrap	652	326	772

(a) Information not available.

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

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

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

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Estonia—			
Pig-iron	2,022	1,320	728
Crude iron and steel in ingots and bars ..	30	10	30
Ferro-alloys	—	98	34
Finland—			
Pig-iron	18,320	12,456	13,496
Ferro-manganese and spiegeleisen	149	242	198
Other ferro-alloys ..	112	51	178
Steel-sand	175	122	80
Old, filings and scrap ..	690	557	40
France—			
Pig-iron—ordinary ..	} 213,478	27,225	9,605
hematite		115,232	62,806
Spiegeleisen	27,083	25,515	14,131
Ferro-manganese	10,920	1,958	381
Ferro-silicon	2,041	2,293	1,416
Ferro-chrome	1,522	1,372	732
Other ferro-alloys ..	1,195	326	190
Ingots	17,228	6,253	1,625
Blooms and billets, rolled or forged	51,241	27,775	15,055
Tool steel	1,430	1,357	788
Machine iron or steel ..	6,862	2,104	1,408
Other special steel ..	8,029	5,292	4,166
Old, filings and scrap ..	68,104	71,633	57,631
Germany—			
Pig-iron	172,410	167,683	115,623
Ferro-alloys	2,004	1,652	1,213
Rough blooms, ingots, bars, etc.	133,104	102,006	87,126
Old and scrap	352,758	158,952	88,290
Greece—			
Crude iron in ingots ..	3,452	3,258	3,749

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

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Italy—			
Pig-iron	174,863	154,204	82,580
Spiegeleisen	2	—	251
Ferro-chrome	322	489	212
Ferro-manganese	393	23	217
Other ferro-alloys	451	425	338
Crude iron in ingots	26	3	—
Steel ingots	23,524	6,477	8,050
Steel blooms and loops	16,034	14,134	6,744
Old and scrap	979,036	841,873	603,313
Jugoslavia—			
Ferro-manganese	2,148	1,184	162
Ferro-silicon	56	86	2
Pig-iron and other ferro- alloys	13,210	12,813	4,431
Iron in ingots	2,775	374	309
Crude steel	7,660	5,366	3,668
Special steel	1,036	1,310	571
Old, filings and scrap	23,468	10,418	23,137
Latvia—			
Pig-iron	5,082	5,908	4,659
Iron blooms and loops	1,907	1,831	4,208
Steel blooms and loops	41	294	1
Old, filings and scrap	47	893	534
Netherlands—			
Pig-iron and ferro-alloys	30,024	32,321	15,971
Ingots, blooms, billets, etc.	1,855	1,780	741
Old and scrap	14,901	22,619	27,514
Norway—			
Pig-iron	16,688	13,518	9,222
Ferro-silicon	111	—	(a)
Ferro-wolfram and ferro- vanadium	26	83	(a)
Steel ingots	820	178	(a)
Alloyed steel	617	503	(a)
Old and scrap	4,630	4,788	(a)

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

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Poland—			
Pig-iron—Foundry ..	128	217	777
Refined ..	8	60	710
Other ..	5,598	2,237	1,172
Ferro-manganese ..	6	21	2,027
Ferro-silicon	1,431	522	409
Ferro-chrome	251	243	162
Other ferro-alloys ..	49	20	9
Blooms and billets ..	38,556	30,687	13,964
Old and scrap	508,287	328,492	360,941
Portugal—			
Iron and steel ingots ..	} 6,879	7,140	6,447
Old and scrap		1,024	435
Roumania—			
Pig-iron	(a)	9,501	(a)
Ferro-alloys	(a)	1,126	(a)
Ingots, slabs and blooms	(a)	6,450	(a)
Tool steel	(a)	234	(a)
Old and scrap	(a)	209	(a)
Russia—			
Pig-iron	25	3	67,125
Spiegeleisen, silico- spiegel, etc... ..	635	81	317
Ferro-chrome	598	2,187	4,088
Ferro-molybdenum ..	22	302	650
Ferro-silicon	9,837	12,398	21,418
Ferro-tungsten	1,052	1,617	3,622
Ferro-vanadium	50	199	339
Other ferro-alloys ..	294	744	54
Old and scrap	4,765	6,028	18,247
Spain—			
Pig-iron	8,494	4,722	1,362
Ferro-manganese ..	7,014	3,906	503
Ferro-silicon	2,563	2,620	613
Other ferro-alloys ..	342	733	469
Ingots and blooms ..	5,798	297	10
Tool steel	2,352	2,133	1,127
Special alloy-steel ..	334	496	349
Old and scrap	212,087	253,029	159,088

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

Importing Country and Description.	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Pig-iron	88,624	87,088	58,534
Spiegeleisen and ferro- manganese	1,674	1,703	2,791
Ferro-chrome	1,075	493	421
Ferro-wolfram	330	223	98
Other ferro-alloys	111	116	85
Granulated iron	284	274	295
Steel ingots	—	14	2
Tool steel	46	31	34
Old and scrap	26,625	1,700	2,779
Ferro-silicon and man- ganese-silicon	162	208	85
Switzerland—			
Pig-iron, billets, blooms, etc.	171,525	147,307	130,731
Ferro-chrome and ferro- silicon	1,700	1,657	1,595
Old, filings and scrap	814	2,767	3,313
Algeria—			
Pig-iron	2,427	2,328	1,706
Spiegeleisen and ferro- alloys	41	8	(a)
Ingots, blooms and billets	34	22	(a)
Tool steel	89	64	(a)
Old, filings and scrap	253	435	(a)
Egypt—			
Pig-iron and ferro-alloys	2,739	3,679	2,343
Scrap (total imports)	136	740	194
Morocco (French zone)—			
Tool steel	24	48	32
Tunis—			
Pig-iron	169	108	81
Iron ingots and rough bars	312	529	224
Steel bars, ingots and billets	15,769	11,210	18,867
Tool steel	62	276	33
Old and scrap	769	1,617	796

(a) Information not available.

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

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Cuba—			
Iron ingots	611	(a)	(a)
Steel ingots	10	(a)	(a)
United States—			
Pig-iron	147,662	137,031	84,411
Ferro-manganese and other alloys (<i>Mn con-</i> <i>tent</i>)	62,785	38,452	17,764
Ferro-silicon (<i>Si con-</i> <i>tent</i>)	9,424	5,188	738
Ferro-tungsten, tungsten and alloys (<i>W con-</i> <i>tent</i>)	3,040	1,613	532
Ferro-chromium and chromium	667	162	95
Steel ingots, blooms, etc.	26,493	22,314	19,925
Scrap	90,479	27,482	16,279
Mexico—			
Ingots	(a)	10,177	4,496
Ferro-alloys	(a)	1,247	456
Argentina—			
Ingots	27,417	34,388	21,474
Old and scrap	2,460	645	25
Brazil—			
Pig-iron	4,352	1,853	632
Filings	180	81	49
Chile—			
Ingots	7,686	5,747	2,408
Old iron.. .. .	48	4,555	(a)
Colombia—			
Ingots and filings ..	623	194	(a)
Peru—			
Pig-iron	1,447	953	373
China—			
Pig and kentledge ..	19,492	19,853	22,455
Old and scrap	24,104	17,216	19,340
Tool and spring steel ..	4,240	3,792	4,085

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

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Formosa—			
Ingots, blooms and billets	4,553	6,313	(a)
Old and scrap	275	394	(a)
French Indo-China—			
Pig-iron and ferro-alloys	2,593	2,050	1,275
Iron ingots	4	1	—
Steel ingots, bars and billets	24,219	20,654	8,616
Tool steel	740	105	60
Old, filings and scrap ..	478	550	282
Japan—			
Pig-iron	643,725	399,420	393,139
Ferro-manganese	2,429	2,097	904
Other ferro-alloys	729	609	365
Ingots, blooms, and billets	34,520	7,297	2,196
Old and scrap	488,674	481,199	290,911
Special steel	2,419	2,379	1,934
Korea—			
Pig-iron	8,164	6,164	4,085
Netherlands East Indies—			
Iron ingots	5,228	2,623	(a)
Old and scrap	194	282	(a)
Persia (years ended Mar. 31 following)—			
Ingots, old and scrap ..	3,117	2,489	629
Philippine Islands—			
Pig-iron	2,225	1,299	775
Syria and Lebanon—			
Pig-iron	620	916	30
Turkey—			
Iron ingots and blocks..	} 729	275	174
Steel ingots and blocks		1,357	514
Old and scrap		99	17

(a) Information not available.

LEAD

PRODUCTION OF LEAD ORE

(In terms of metal)

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	18,608	20,304	23,602
Kenya	2	—	—
Nigeria (estimated) ..	50	370	1,310
Northern Rhodesia (smelter)	1,635	—	—
Southern Rhodesia ..	—	4	—
South West Africa (<i>d</i>) ..	25,500	28,500	14,100
Union of South Africa ..	50	6	39
Canada	145,769	148,613	119,349
Newfoundland (estimated)	11,000	12,000	17,000
India	102,100	114,400	89,000
Australia	194,006	197,595	150,764
Total ..	500,000	520,000	420,000
FOREIGN COUNTRIES			
Austria	7,388	8,754	1,646
Bulgaria (estimated) ..	3,600	1,200	(<i>a</i>)
Czechoslovakia	4,411	6,500	4,604
Finland	268	180	(<i>a</i>)
France	11,058	10,400	10,000
Germany	59,509	67,579	53,404
Greece	4,161	7,686	6,600
Hungary (estimated) ..	200	800	(<i>a</i>)
Italy	30,051	29,445	24,185
Jugoslavia	14,500	19,800	40,200
Norway	32	639	867
Poland	11,400	11,300	8,000
Portugal	150	—	40
Roumania (smelter) ..	556	969	(<i>a</i>)
Russia (smelter)	8,300	10,580	11,000
Spain (smelter)	140,498	121,317	120,267
Spitzbergen	48	77	(<i>a</i>)
Sweden	6,925	5,835	(<i>a</i>)
Algeria	8,852	7,686	(<i>a</i>)
Egypt	134	70	(<i>a</i>)

PRODUCTION OF LEAD ORE (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Morocco (French zone) ..	3,500	4,100	4,000
Tunis	17,000	14,000	13,000
Mexico (b)	244,478	229,252	223,199
United States (b)	(c) 578,567	499,063	355,000
Argentina	3,050	2,975	3,824
Bolivia (exports)	14,719	11,826	6,564
Chile	1,615	664	(a)
Peru	27,819	(a)	(a)
China (estimated)	6,900	4,900	3,800
French Indo-China	51	20	6
Japan (smelter)	3,321	3,524	4,000
Turkey (smelter)	7,208	4,590	2,724
Korea (smelter)	322	125	(a)
New Caledonia	138	500	(a)
Total ..	1,220,000	1,110,000	940,000
WORLD'S TOTAL ..	1,720,000	1,630,000	1,360,000

(a) Information not available.

(b) Amount estimated as recoverable.

(c) Excluding the production in Virginia, which is about 2,000 long tons a year.

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

METAL PRODUCTION OF LEAD

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	10,668	10,219	10,554
Northern Rhodesia ..	1,635	—	—
South West Africa (a) ..	2,758	3,603	2,599
Canada	135,915	135,925	124,307
India	80,233	79,730	74,785
Australia (f)	177,509	168,543	150,436
Total ..	409,000	398,000	363,000
FOREIGN COUNTRIES			
Austria	6,465	6,825	6,020
Belgium (b)	81,541	84,022	(a)
Czechoslovakia	4,536	4,158	3,601
France	20,036	19,900	19,000
Germany (c)	122,264	133,620	120,000
Greece	5,276	7,213	(a)
Hungary	107	69	51
Italy	22,292	23,956	24,489
Jugoslavia	10,257	9,889	7,806
Norway	(e) 903	(e) 787	342
Poland	35,224	39,573	31,372
Portugal	93	—	106
Roumania	556	969	(a)
Russia (years ended Sept.30)	8,300	10,580	11,000
Spain	140,498	121,317	120,267
Sweden	71	7	(a)
Tunis	19,133	19,100	18,810
Mexico	224,478	211,167	204,000
United States	638,988	548,537	371,297
Argentina	7,969	(g) 7,000	(g) 7,000
Peru	21,072	16,630	(g) 4,000
French Indo-China ..	17	11	(a)
Brazil (estimated) ..	400	(a)	(a)

METAL PRODUCTION OF LEAD (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Japan	3,321	3,524	4,000
Korea	322	125	(a)
Turkey	7,208	4,590	2,724
Total ..	1,380,000	1,280,000	1,050,000
WORLD'S TOTAL	1,790,000	1,680,000	1,410,000

(a) Information not available.

(b) Includes base bullion as follows:—

1929 22,499 long tons.

1930 22,184 „ „

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

1929 96,400 long tons.

1930 109,100 „ „

1931 99,700 „ „

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

(e) Including tin.

(f) Includes base bullion as follows—

1929 689 long tons.

1930 252 „ „

1931 17,130 „ „

(g) Estimated.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	15,421	11,457	16,201
Pig-lead	4,848	3,773	3,097
Sheets and pipes	4,954	6,053	4,863
Foil	23	29	104
White lead	9,842	6,563	4,539
Litharge, red lead, etc. ..	12,431	10,143	7,369
Nigeria—			
Ore	—	353	1,700
Northern Rhodesia—			
Pig-lead	2,054	—	—
South West Africa—			
Pig-lead	3,426	2,642	3,654
Copper-lead ore and matte	65,045	55,084	32,445
Union of South Africa—			
Pig, ingot and sheets ..	10	2	2
Canada—			
Ore (<i>Pb content</i>)	7,132	11,751	1,974
Pig-lead, etc.	101,953	91,711	96,619
White lead	23	129	169
Newfoundland (years ended June 30)—			
Concentrates	10,501	23,451	29,229
British India—			
Ores	616	600	30
Pig-lead, bars, etc. ..	82,742	75,267	69,621
British Malaya (including re- exports)—			
Pig-lead	140	184	154
Sheets and pipes	56	19	10
Australia (including re-exports)			
Ores and concentrates (<i>Pb content</i>) (b)	15,321	19,471	24,121
Pig-lead	149,050	146,132	146,682
Sheets and pipes	613	526	109
White lead	226	296	368
New Zealand—			
Pig and bar	—	—	4

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Austria—			
Ore	102	20	11
Pig-lead, scrap and alloys..	1,792	4,176	1,979
Bars, sheets, rods, etc. ..	235	221	222
Red and white lead, etc. ..	3,872	2,468	1,592
Belgium-Luxemburg E.U.—			
Ore	1,685	1,298	42
Pig-lead and scrap.. ..	20,697	20,618	38,747
Sheets, bars, pipes and wire	15,269	18,872	18,991
Red and white lead, etc. ..	4,929	5,411	4,981
Bulgaria—			
Ore (c)	3,710	2,108	—
Czechoslovakia—			
Ore	1,416	2,082	—
Pig-lead, ashes, scrap and alloys	337	721	173
Sheets, pipes, etc.	35	12	13
Red and white lead, etc. ..	18	2	2
Denmark—			
Pig-lead, scrap and alloys ..	255	398	364
Sheets and pipes	14	21	13
Red lead	17	17	17
France—			
Ore, matte and slag	20,299	21,290	10,695
Pig-lead, including argenti- ferous and antimonial ..	1,348	904	880
Scrap	984	1,315	675
Sheets, etc.	2,585	4,187	2,981
Red and white lead, etc. ..	906	2,673	1,594
Germany—			
Ore	21,470	25,462	21,923
Pig-lead, alloys and scrap..	22,008	31,157	29,504
Sheets, pipes, wire, etc. ..	5,901	8,262	9,593
Red and white lead	12,170	12,318	9,909
Greece—			
Argentiferous lead	4,318	6,993	6,599

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

(c) Not including mixed ores.

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Pig-lead and scrap ..	334	59	34
Sheets, pipes and wire ..	82	117	28
Red and white lead, etc. ..	46	38	63
Italy—			
Ore	12,506	15,721	16,016
Pig-lead, scrap and alloys..	63	71	69
Sheets, pipes, wire and alloys	131	157	128
Red and white lead ..	1,525	1,069	2,025
Jugoslavia—			
Ore	3,328	13,998	36,976
Pig-lead and scrap ..	24	15	464
Plates and sheets ..	7,177	6,675	6,137
Latvia—			
Red and white lead, etc. ..	572	876	1,224
Netherlands—			
Pig-lead and scrap ..	1,247	1,208	858
Sheets and wire ..	303	277	362
Red and white lead ..	1,216	1,311	960
Norway—			
Ore	—	813	(a)
Pig-lead, ashes and scrap	333	169	(a)
Sheets, tubes and wire ..	95	50	(a)
Poland—			
Ore and slag ..	94	372	36
Pig-lead, bars and scrap ..	15,201	14,991	20,306
Sheets, tubes and wire ..	716	131	82
Red and white lead, etc. ..	959	751	626
Portugal—			
Ore	600	65	—
Pig-lead	5	4	—
Roumania—			
Ore	(a)	5,216	(a)
Scrap	(a)	79	(a)
Russia—			
Concentrates	8,743	9,028	—
Spain (including re-exports)—			
Galena — non-argentiferous	3,647	4,066	1,167
do. argentiferous ..	1,519	835	1,207
Other ore	375	686	825
Pig-lead—non-argentiferous	95,642	87,669	81,697
do. argentiferous ..	2,386	—	10
Pipes and sheets ..	1,066	2,500	2,488

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Ore	13,328	11,144	12,010
Pig-lead and scrap ..	1,355	1,436	2,119
Sheets, pipes and wire ..	4	5	1
Red and white lead and litharge	124	30	2
Switzerland—			
Ores	593	700	293
Pig-lead, scrap, etc. ..	1,082	1,152	825
Sheets and pipes ..	70	41	68
Red and white lead, etc. ..	42	23	21
Algeria—			
Ore	19,840	21,927	10,699
Pig-lead and scrap ..	243	230	674
Egypt—			
Pig-lead and scrap ..	2	(c) 671	48
Morocco—			
Ore	4,992	6,932	1,199
Scrap	24	90	1
Tunis (including re-exports)—			
Ore	1,068	214	181
Pig-lead and bars ..	18,007	13,363	21,077
Mexico—			
Ores, etc.	(d) 19,972	45,663	19,716
Pig-lead, refined ..	159,276	168,031	190,466
Base bullion	50,938	22,328	27,697
Pig-lead, antimonial ..	2,705	2,017	2,171
United States—			
Pig-lead, bars, etc. ..	64,518	42,831	19,208
Red and white lead, etc. ..	7,855	9,530	7,228
Argentina—			
Ore	93	942	—
Slag and ash	17	100	—
Bolivia—			
Ore (Pb content)	14,719	11,826	6,564
Brazil—			
Ore	592	827	1,128

(a) Information not available.

(c) March-December only.

(d) Pb conten .

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Chile—			
Ores	3,121	1,204	24
Peru—			
Ore and concentrates (<i>Pb</i> <i>content</i>)	3,046	2,824	3,225
Pig-lead and scrap (<i>do.</i>) ..	18,422	15,779	212
Venezuela—			
Pig-lead	54	(a)	(a)
Red and white lead ..	134	(a)	(a)
China—			
Ore	5,131	2,377	1,044
Pig-lead	17	—	68
Formosa—			
Tea-lead	5	5	(a)
French Indo-China—			
Ore, matte and slag ..	29	111	80
Iraq (years ended March 31 of year following)—			
Pig-lead, etc.	16	35	16
Japan—			
Tubes	590	608	489
Red lead	1,099	1,413	1,503
Korea—			
Pig-lead	358	3	95
Netherlands East Indies—			
Scrap	71	44	(a)
Turkey—			
Ore	5,700	7,715	5,462
Pig-lead, scrap and alloys..	62	4,445	38
Sheets and dust	(a)	837	—

(a) Information not available.

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	3,456	1,264	1,669
Pig-lead	265,131	286,151	283,189
Sheets and pipes	8,106	13,926	20,147
Foil	28	21	21
White lead	10,911	11,631	11,811
Litharge, red lead, etc. ..	3,449	4,493	4,005
Irish Free State—			
Pig-lead	1,245	1,228	1,536
Sheets and pipes	790	1,059	1,066
Red and white lead, etc. ..	819	807	730
Gold Coast—			
Bars and sheets	23	123	119
Kenya and Uganda—			
Bars and sheets	45	41	20
Mauritius (total imports)—			
Pig-lead, sheets and pipes..	65	57	(a)
Nigeria—			
Ore	93	79	57
Bars and sheets	97	93	54
Sierra Leone—			
Bars and sheets	10	7	6
Southern Rhodesia—			
Pig-lead, bars and sheets ..	29	38	34
Foil	10	2	3
Red and white lead, acetate, etc.	169	99	71
South West Africa—			
Bars, sheets and pipes	11	19	11
Red and white lead, etc. ..	15	10	5
Tanganyika—			
Bars and sheets	5	13	3
Union of South Africa (total imports)—			
Pig-lead, bars, sheets and pipes	1,325	2,734	1,999
Foil	97	77	48
Red and white lead, acetate etc.	1,672	1,295	1,282
Canada—			
Pig-lead and scrap	524	341	115
Bars, sheets, pipes, etc. ..	155	856	310
White lead, red lead, litharge, etc.	3,481	2,007	2,504

(a) Information not available.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
Newfoundland (years ended June 30)—			
Bars and sheets	(£815)	(£1,488)	(£781)
British India (total imports)—			
Ore	197	262	262
Pig-lead, bars, etc. ..	226	192	254
Sheets, pipes, etc. ..	1,986	1,704	1,584
Lead (Government stores) ..	36	15	31
Litharge, red and white lead, etc... ..	3,445	2,471	2,087
British Malaya (total imports)—			
Pig-lead	433	580	370
Pipes and sheets	156	105	77
Ceylon—			
Pig-lead	2,985	2,940	2,508
Sheets and pipes	75	40	37
Tea-lead	1,837	981	640
Cyprus—			
Sheets and pipes	7	6	31
Palestine (total imports)—			
Pig-lead, sheets, pipes, etc.	63	62	126
Australia—			
Pig-lead	—	23	—
Sheets and pipes	123	64	19
White lead and lead acetate	1,642	389	5
Fiji—			
Pig-lead and sheet	17	7	13
New Zealand—			
Pig-lead and bars	1,267	1,611	1,062
Sheets and pipes	511	566	76
White lead	2,581	2,117	1,166
FOREIGN COUNTRIES			
Austria—			
Ore	1,972	2,391	842
Pig-lead, scrap and alloys	9,672	7,606	6,077
Bars, sheets, rods, etc. ..	98	216	44
Red and white lead, etc. ..	116	78	80
Belgium-Luxemburg E.U.—			
Ore	41,754	39,526	55,146
Pig-lead and scrap	30,843	33,782	51,441
Sheets, bars, pipes and wire	518	1,246	366
Red and white lead, etc. ..	981	801	748

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Bulgaria—			
Pig-lead, sheets, scrap, etc.	425	447	482
Tubes, wire, etc.	58	34	26
Red and white lead, etc. (b)	573	477	554
Czechoslovakia—			
Ore	504	148	45
Pig-lead, ashes, scrap and alloys	13,069	10,663	8,897
Sheets and plates	16	4	4
Rods, pipes, wire, etc.	14	17	13
Red and white lead, etc.	1,276	1,059	848
Denmark—			
Pig-lead and scrap	5,792	7,537	7,965
Sheets and pipes	910	819	650
Red and white lead	775	763	756
Estonia—			
Pig-lead and bars	114	55	139
Sheets, pipes and wire	32	49	47
Red and white lead, etc.	128	127	118
Finland—			
Pig-lead and scrap	630	720	1,041
Sheets, pipes, wire, etc.	682	957	739
Red and white lead	698	551	423
France—			
Ore, matte and slag	34,052	32,726	26,803
Pig-lead, including argenti- ferous and antimonial	93,594	127,258	113,495
Scrap	3,858	7,343	3,153
Sheets, etc.	195	205	286
Red and white lead, etc.	1,937	1,428	1,779
Germany—			
Ore	78,282	81,595	48,513
Pig-lead, scrap and alloys	134,653	84,751	63,550
Sheets, pipes, wire, etc.	747	176	165
Red and white lead	1,523	1,155	912
Greece—			
Lead	1,219	1,657	1,234
Hungary—			
Pig-lead and scrap	4,766	4,490	4,493
Sheets, pipes and wire	13	15	22
Red and white lead, etc.	220	118	79
Iceland—			
Pig-lead, etc.	30	(a)	(a)
Red and white lead	53	(a)	(a)

(b) Includes zinc white and lithopone.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Italy—			
Ore	3,493	10,046	12,378
Pig-lead, scrap and alloys	24,275	17,723	15,395
Sheets, pipes, wire and alloys	46	21	15
Red and white lead ..	485	791	384
Jugoslavia—			
Pig-lead and scrap	105	82	50
Sheets, bars, rods and wire	106	147	24
Red and white lead, etc. ..	551	544	457
Latvia—			
Pig-lead, sheets and scrap	1,707	1,419	1,684
Red and white lead, etc. ..	31	7	8
Lithuania—			
Pig-lead, pipes and scrap ..	150	158	239
Red lead, etc.	63	64	18
Netherlands—			
Ore	232	256	244
Pig-lead and scrap	20,809	22,549	23,031
Sheets and wire	5,031	8,256	4,035
Red and white lead	5,946	5,546	4,611
Norway—			
Pig-lead	1,188	1,682	1,726
Bars, sheets and tubes ..	636	823	455
Red and white lead	709	837	636
Poland—			
Ore and slag	24,578	30,238	18,725
Pig-lead, bars and scrap ..	18	31	79
Sheets, tubes and wire ..	52	83	82
Red and white lead, etc. ..	896	783	678
Portugal—			
Lead and alloys	2,175	1,984	2,033
Roumania—			
Pig-lead and scrap	(a)	2,397	(a)
Red and white lead, etc. ..	(a)	400	(a)
Russia—			
Pig-lead, sheets and scrap ..	43,609	49,390	41,284
Red lead	348	1,083	176
Spain (total imports)—			
Ore	715	3,522	17,882
Pig-lead and scrap	223	119	128
Sheets, pipes and wire ..	36	26	15
Sweden—			
Pig-lead and scrap	8,365	11,553	12,886
Sheets and pipes	2,182	2,123	2,061
Red and white lead and litharge	2,744	2,753	2,773

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Ores	179	79	24
Pig-lead, scrap, etc. ..	11,420	12,650	14,243
Sheets, pipes, wire, etc. ..	776	554	679
Red and white lead, etc. ..	287	388	394
Algeria—			
Ore and matte	4,056	5,198	(a)
Pig-lead, bars, sheets, etc. ..	2,234	3,670	3,503
Belgian Congo—			
Pig-lead	2,648	36	1
Egypt—			
Pig-lead and scrap.. ..	179	364	381
Sheets and pipes	594	671	692
Red and white lead, etc. ..	331	333	373
Morocco—			
Pig-lead, sheets and wire ..	164	185	256
Mozambique—			
Bars and sheets	26	16	15
Réunion	5	(a)	(a)
Togoland—			
Pig-lead and sheets	46	(a)	(a)
Tunis—			
Ore	6,711	15,680	19,605
Pig-lead, bars and scrap ..	120	11	12
Sheets, pipes, etc.	173	137	55
Red and white lead, etc. ..	46	31	29
Costa Rica (total imports)—			
Bars and sheets	4,889	(a)	(a)
Cuba (total imports)—			
Pig-lead	236	(a)	(a)
Sheets, pipes and wire ..	149	(a)	(a)
Mexico—			
Pig-lead	173	121	300
Sheets and pipes	—	39	(a)

(a) Information not available.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Panama—			
Pig-lead	21	7	(a)
Salvador	215	86	(a)
United States—			
Ore and matte (<i>Pb content</i>)	27,974	35,158	18,650
Bullion and base bullion (<i>Pb content</i>)	74,170	34,491	28,857
Pig-lead, bars and scrap (<i>c</i>)	1,480	(d) 187	(d) 9
Red and white lead, etc. ..	133	86	72
Argentina—			
Ore	7,767	6,397	5,138
Pig-lead and sheets ..	5,487	6,563	5,544
Red and white lead ..	902	662	555
Bolivia—			
Bars and sheets	78	30	(a)
Brazil (total imports)—			
Pig-lead, sheets and pipes..	5,839	3,640	4,141
Red and white lead ..	873	680	366
Chile—			
Pig-lead	1,012	914	394
Bars and sheets	1,477	350	243
Red and white lead ..	26	36	10
Colombia—			
Ingots, bars, tubes and alloys	173	150	(a)
Red and white lead ..	106	43	(a)
Ecuador—			
Pig-lead, sheets and wire ..	177	91	42
Peru—			
Pig-lead, sheets, etc. ..	322	134	69
Uruguay—			
Pig-lead	928	1,014	879
Red and white lead ..	166	122	11
Venezuela—			
Pig-lead	54	(a)	(a)
Red lead	136	(a)	(a)
China—			
Pig-lead	4,340	5,399	4,867
Tea- and sheet-lead ..	574	314	580
Pipes	607	453	397
Red and white lead, etc. ..	1,660	1,477	1,572

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Formosa—			
Pig-lead	30	11	(a)
Pipes, tubes, etc.	1,436	1,259	(a)
Red lead, etc.	197	194	(a)
French Indo-China—			
Pig-lead and scrap	292	176	151
Sheets, etc.	50	33	31
Red and white lead	469	344	130
Iraq (years ended March 31 of year following—			
Pig-lead, etc.	49	13	28
Japan (total imports)—			
Pig-lead	59,595	55,098	52,741
Tea-lead	152	133	129
Korea—			
Pipes	578	1,174	403
Netherlands East Indies—			
Pig-lead, scrap and alloys	653	579	(a)
Sheets, etc. and alloys ..	861	628	(a)
Tea-lead	624	438	(a)
Red and white lead	1,942	1,709	(a)
Philippine Islands—			
Pig-lead and sheets	460	564	586
Red and white lead	535	484	394
Siam (total imports)—			
Pig-lead	326	354	240
Syria and Lebanon—			
Ingots and sheets	29	38	56
Pipes	108	42	31
Red and white lead	27	10	77
Turkey—			
Pig-lead, scrap and alloys..	1,004	342	568
Sheets, tubes, wire and alloys	131	149	103

(a) Information not available.

(c) Total imports.

(d) Pb content.

MAGNESITE**PRODUCTION OF MAGNESITE**

(Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
Union of South Africa—			
Crude	1,682	1,879	1,336
Canada—			
Crude	38,597	24,677	23,963
Caustic and dead-burnt (c)	16,794	11,907	10,188
India—			
Crude	23,497	16,523	5,333
Australia—			
Crude	9,115	(e) 8,691	(e) 3,425
FOREIGN COUNTRIES			
Austria—			
Crude	430,000	299,588	176,606
Caustic (c)	(a)	20,200	34,211
Dead-burnt (c)	88,400	122,264	38,186
Bricks (c)	45,000	40,434	23,441
Czechoslovakia (exports less imports) (b)—			
Crude	10,027	7,003	7,708
Calcined	42,616	30,123	14,569
Greece—			
Crude	82,696	67,427	(a)
Caustic (c)	32,087	19,661	(a)
Dead-burnt (c)	1,229	889	(a)
Italy—			
Crude	16,901	4,057	(a)
Jugoslavia (Serbia only)—			
Crude	(a)	17,701	(a)
Calcined	6,511	6,585	8,436

PRODUCTION OF MAGNESITE (Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Norway—			
Crude	1,781	2,171	1,555
Calcined	488	783	450
Bricks	524	326	290
Russia (years ended Sept. 30)			
Crude	130,614	150,000	(a)
Caustic (c)	5,780	6,129	(a)
Dead-burnt (c)	53,403	62,566	(a)
Bricks (c)	28,857	33,906	(a)
United States—			
Crude	167,554	115,464	65,716
Caustic (sales) (c)	10,170	7,661	5,268
Dead-burnt (sales) (c)	70,268	44,161	25,206
China—			
Crude	31,681	29,016	30,000
Turkey—			
Crude	281	317	2,162

(a) Information not available.

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

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

(e) Excluding production of Victoria, which is not available. During 1929 this amounted to 27 long tons.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Magnesium	12	14	46
Chloride, sulphate, etc. ..	3,647	3,655	3,782
Canada—			
Caustic and dead-burnt ..	4,714	1,653	1,438
FOREIGN COUNTRIES			
Austria—			
Crude	1,400	889	4,960
Caustic	27,032	26,458	18,110
Dead-burnt	88,834	57,144	27,057
Bricks	54,581	53,971	42,217
Carbonate	5	8	9
Chloride	50	48	15
Sulphate	7	3	1
Belgium-Luxemburg E.U.—			
Crude	1	37	5
Calcined	54	159	5
Magnesium	1	2	—
Carbonate	—	23	31
Chloride	5	93	123
Sulphate	17	21	109
Czechoslovakia—			
Crude	10,094	7,003	7,708
Calcined	46,134	31,269	15,264
Chloride and sulphate ..	23	18	4
Denmark—			
Chloride	11	1	1
France—			
Crude	34	1	27
Calcined	12	35	45
Magnesium	2	23	7
Carbonate	93	40	35
Chloride	2,220	932	649
Sulphate	49	42	46
Germany—			
Crude and calcined	5,517	6,232	5,087
Carbonate	637	586	483
Chloride	42,320	39,595	34,624
Sulphate	99,276	75,778	60,426

EXPORTS OF MAGNESITE, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Greece—			
Crude	3,469	3,209	1,203
Caustic	9,702	10,550	8,020
Hungary—			
Sulphate	7	6	6
Italy—			
Caustic, impure	292	227	526
do. pure	137	164	176
Carbonate	192	146	131
Chloride and sulphate	3	13	9
Jugoslavia—			
Crude	6,493	5,998	610
Calcined	577	3,970	6,799
Netherlands—			
Crude	8	6	5
Magnesia	17,321	15,378	12,189
Sulphate	(a)	32	7
Norway—			
Crude	20	5	
Calcined	503	695	399
Bricks	362	311	380
Poland—			
Sulphate	11	—	—
Russia	20,991	18,522	14,945
Sweden—			
Crude and calcined.. .. .	—	—	9
United States—			
Magnesia and manufactures	2,794	3,055	1,297
Turkey—			
Crude	67	69	1,684

(a) Information not available.

IMPORTS OF MAGNESITE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Crude	11,585	6,738	6,626
Caustic and dead-burnt	27,276	18,856	12,125
Magnesium	149	46	62
Chloride, sulphate, etc.	40,016	25,964	26,159
Union of South Africa—			
Carbonate and sulphate	438	395	492
Chloride	441	363	227
Canada—			
Crude and calcined	111	1,368	1,596
Oxide	949	1,212	474
Sulphate	2,290	2,291	1,839
Bricks	(£52,449)	(£55,195)	(£32,337)
British India (total imports)—			
Chloride	1,895	1,779	1,827
Sulphate	2,230	2,987	1,289
Other salts	475	32	17
Australia—			
Oxide	244	137	43
Carbonate	182	153	94
Chloride	387	332	37
Sulphate	1,452	1,369	626
New Zealand—			
Sulphate	187	242	235
FOREIGN COUNTRIES			
Austria—			
Caustic	117	91	83
Dead-burnt	8	18	7
Bricks	1,149	752	711
Carbonate	221	151	153
Chloride	2,227	1,715	1,383
Sulphate	192	113	99
Belgium-Luxemburg E.U.—			
Crude	83	44	490
Calcined	978	621	599
Magnesium	12	3	1
Carbonate	86	49	61
Chloride	3,892	3,145	3,108
Sulphate	5,510	8,268	13,143
Bulgaria—			
Sulphate	32	32	56

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Crude	67	—	—
Calcined	3,518	1,146	695
Oxide, impure	4,901	4,694	3,777
Chloride	5,900	5,292	4,285
Sulphate	1,025	72	3
Denmark—			
Crude	419	487	510
Oxide	89	96	88
Chloride	424	526	609
Sulphate	193	216	146
Estonia—			
Crude and calcined	66	59	69
Chloride and sulphate	111	109	104
Finland—			
Magnesite and witherite	835	772	490
Calcined	24	20	15
Carbonate	45	37	64
Chloride	666	724	423
Sulphate	100	104	94
France—			
Crude	2,365	2,344	361
Calcined	1,571	4,964	5,947
Magnesium	52	44	71
Carbonate	890	1,145	1,439
Chloride	2,423	3,675	2,594
Sulphate	4,627	2,925	1,741
Germany—			
Crude	16,906	9,389	14,113
Caustic	31,360	29,195	19,871
Dead-burnt	30,595	20,137	15,226
Carbonate	71	82	31
Sulphate	66	32	5
Hungary—			
Magnesite	18,656	9,483	6,018
Oxide	53	31	37
Sulphate	853	897	884
Italy—			
Caustic, impure	2,752	2,449	2,164
do. pure	1	1	2
Carbonate	20	25	12
Chloride	1,426	1,352	840
Sulphate	4,855	636	441

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia--			
Calcined	2,110	1,825	1,579
Chloride and sulphate ..	707	705	823
Oxide and carbonate ..	115	108	92
Latvia--			
Crude and calcined	129	157	134
Chloride and sulphate ..	129	194	114
Lithuania--			
Crude	4	} 132	163
Calcined	115		
Salts.. .. .	120		
Netherlands--			
Crude	1,207	451	879
Magnesia	18,762	17,345	12,744
Sulphate	(a)	19,005	9,533
Norway--			
Calcined	1,513	1,174	(a)
Bricks	102	109	(a)
Chloride	519	938	(a)
Poland--			
Crude	3,824	3,309	3,061
Chloride	1,313	1,506	1,237
Oxide	22	6	2
Sulphate	4,306	4,187	2,238
Portugal--			
Calcined, etc.	101	3	175
Carbonate	11	11	8
Sulphate	565	415	455
Chloride	73	106	138
Roumania--			
Calcined	(a)	29	(a)
Chloride	(a)	98	(a)
Sulphate	(a)	614	(a)
Spain (total imports)--			
Carbonate	126	147	85
Chloride and sulphate ..	608	1,351	735
Oxide	11	29	24

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1929	1930	1931		
FOREIGN COUNTRIES (Cont.)					
Sweden—					
Magnesite	2,159	} 2,006	1,497		
Calcined and carbonate ..	114				
Chloride	1,584			(a)	(a)
Sulphate	376			(a)	(a)
Switzerland—					
Calcined	2,300	2,481	2,578		
Algeria—					
Sulphate	22	13	(a)		
Egypt—					
Sulphate	273	719	278		
Panama—					
Sulphate	—	14	(a)		
United States—					
Crude and calcined.. ..	6,072	3,802	2,651		
Dead-burnt	41,413	41,907	18,693		
Oxide	211	175	188		
Carbonate, precipitated ..	231	200	255		
Chloride	1,470	893	589		
Sulphate	6,045	3,607	4,225		
Argentina—					
Calcined	109	82	84		
Carbonate, etc.	81	87	76		
Chloride	140	178	160		
Sulphate and chlorate ..	468	395	504		
Brazil (total imports)—					
Sulphate	641	631	917		
Chile—					
Crude	353	213	58		
Chloride	126	103	105		
Carbonate, etc.	10	8	3		
Oxide	12	7	3		
Sulphate	525	282	131		

(a) Information not available.

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

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Colombia—			
Salts	126	135	(a)
Peru—			
Crude	519	1,528	495
Salts	46	32	40
Venezuela—			
Calcined	6	(a)	(a)
Sulphate	27	(a)	(a)
French Indo-China—			
Calcined	34	31	15
Carbonate	16	3	2
Chloride	33	38	16
Sulphate	3	5	—
Japan (excluding Kobe)—			
Crude	(c) 10,203	(c) 4,830	(a)
Magnesia	12	14	(a)
Turkey—			
Crude	141	—	14
Salts	245	210	126

(a) Information not available.

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

MANGANESE

PRODUCTION OF MANGANESE ORE

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Gold Coast (exports) ..	419,224	417,490	247,191
Northern Rhodesia ..	1,849	873	1,467
Union of South Africa ..	9,202	144,994	100,290
Canada	—	244	104
India	994,279	829,946	537,844
Unfederated Malay States	32,183	20,696	8,946
Australia	313	125	13
Total ..	1,460,000	1,410,000	900,000
FOREIGN COUNTRIES			
Austria (b)	38,437	25,176	11,298
Czechoslovakia	95,004	83,874	82,558
France	2,560	1,381	(a)
Germany	467	2,312	(a)
Greece	1,600	645	(a)
Hungary	18,743	8,946	1,114
Italy	9,760	10,465	6,320
Jugoslavia	4,424	1,515	2,414
Portugal	—	—	266
Roumania	34,485	32,998	(a)
Russia (years ended Sept. 30)—			
Nikopol	602,264	} 1,543,362	(a)
Tchiaturi	634,125		
Urals	550		

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

PRODUCTION OF MANGANESE ORE (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Spain	17,590	16,553	8,948
Sweden	14,378	8,542	8,232
Egypt	188,453	119,297	(a)
Morocco (French zone) ..	12,942	15,900	11,320
Tunis	1,358	—	(a)
Cuba (exports)	8,400	(a)	(a)
Porto Rico (exports) ..	2,316	2,536	2,374
Mexico	(a)	296	(a)
United States (c)	60,379	67,035	39,242
Argentina	205	236	(a)
Brazil	288,685	159,478	142,731
Chile	3,055	6,040	377
China	62,200	70,700	24,000
Japan	18,100	(a)	(a)
Netherlands East Indies ..	20,665	17,361	(a)
Turkey	148	900	1,000
Total ..	2,100,000	2,200,000	(a)
WORLD'S TOTAL ..	3,600,000	3,600,000	(a)

(a) Information not available.

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

1929	78,191 long tons
1930	77,417 " "
1931	(a) " "

EXPORTS OF MANGANESE ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ferro-manganese and spiegeleisen	88,173	45,042	10,633
Gold Coast—			
Ore	419,224	417,490	247,191
Canada—			
Ferro-manganese and other ferro-alloys	34,044	24,277	15,504
Union of South Africa—			
Ore	—	47,235	(a)
British India—			
Ore (b)	779,550	602,449	246,547
Ferruginous manganese ore	22,560	5,750	6,700
Ferro-manganese	4,198	—	—
British Malaya (c)—			
Ore	32,183	20,696	8,946
Australia (including re- exports)—			
Ore	80	80	—
New Zealand—			
Ore	—	2	10 cwt.
FOREIGN COUNTRIES			
Belgium-Luxemburg E.U.—			
Ore	420	186	2,848
France—			
Ore	3,115	4,904	4,878
Ferro-manganese	3,014	3,465	2,262
Manganese dioxide	212	53	31
Germany—			
Ore	1,392	1,668	1,543
Ferro-manganese	19,824	9,812	14,129
Italy—			
Ore, including manganiferous iron ore	1,581	—	4
Ferro-manganese	1,155	1,348	559
Ferro-silicon-manganese ..	3,408	814	613

(a) Information not available.

(b) Excluding manganese ore mined in British India, but exported via the Portuguese port of Mormugao—1929, 184,939 tons, 1930, 170,577 tons.

(c) Including re-exports.

EXPORTS OF MANGANESE ORE, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Ore	148	98	491
Ferro-silicon-manganese	103	—	—
Ferro-manganese	—	—	1,210
Netherlands—			
Ore	1,266	955	969
Norway—			
Ferro-manganese	67,892	47,092	31,524
Ferro-silicon-manganese	(c) 6,880	4,288	(a)
Poland—			
Ferro-manganese	4,410	1,319	1,587
Russia—			
Ore	1,020,742	742,289	729,991
Spain (including re-exports)—			
Ore	61,545	34,465	6,070
Sweden—			
Ore	484	184	116
Ferro-manganese and spie- geleisen	871	685	669
Ferro-silicon-manganese and ferro-silicon	20,636	13,823	10,616
Algeria—			
Ore	443	1,558	490
Morocco (French zone)—			
Ore	235	150	165
Tunis (including re-exports)—			
Ore	1,159	—	—
Cuba—			
Ore	8,400	(a)	(a)
United States—			
Ferro-manganese and spie- geleisen	1,574	6,189	1,306
Brazil—			
Ore	288,685	189,088	94,041
Chile—			
Ore	3,065	6,040	377
China—			
Ore	41,219	53,988	21,702
Japan—			
Ore	1,735	1,535	3,147
Netherlands East Indies—			
Ore	17,488	17,359	13,084

(a) Information not available.

(c) Including a small amount of other ferro-alloys.

IMPORTS OF MANGANESE ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	289,183	216,301	78,104
Ferro-manganese and spiegeleisen	6,251	5,516	7,600
Union of South Africa—			
Ferro-manganese	445	548	609
Manganese dioxide	36	33	24
Canada—			
Ferro-alloys	7,560	3,700	2,708
Ore (oxide)	88,517	88,194	21,201
British Malaya— (b)			
Ore	(a)	49	278
Australia—			
Ore	275	477	486
New Zealand—			
Ore	—	2	—
FOREIGN COUNTRIES			
Austria—			
Ore	401	70	232
Belgium-Luxemburg E.U.—			
Ore	323,476	255,543	238,298
Czechoslovakia—			
Ore	27,304	43,358	71,469
Denmark—			
Ore	1,774	1,554	1,608
Finland—			
Ore	103	123	59
Ferro-manganese and spiegeleisen	149	242	198
France—			
Ore	787,868	703,759	475,122
Ferro-manganese	10,920	1,958	184
Manganese dioxide	43	221	71
Germany—			
Ore	384,118	330,482	159,797
Ferro-manganese	3,122	2,180	2,328

(a) Information not available.

(b) Total exports.

IMPORTS OF MANGANESE ORE, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Italy—			
Ore, including manganiferous iron ore	105,098	70,489	51,393
Ferro-manganese	393	23	217
Ferro-silicon-manganese	69	94	47
Spiegeleisen	2	—	251
Jugoslavia—			
Ore	21	4,989	5,194
Ferro-manganese	2,148	1,184	162
Netherlands—			
Ore	13,441	2,716	29,863
Norway—			
Ore	158,582	170,271	(a)
Poland—			
Ore	55,116	35,952	39,166
Ferro-manganese	6	21	2,027
Manganese dioxide	91	123	309
Russia—			
Spiegeleisen, silico-spiegel, etc.	635	81	317
Spain (total imports)—			
Ore	7,593	10,167	10,318
Ferro-manganese	7,014	3,906	503
Sweden—			
Ore	477	405	302
Ferro-manganese and spie- geleisen	1,674	1,703	2,791
Ferro-silicon-manganese and ferro-silicon	162	208	77
Algeria—			
Ore	1,020	142	(a)
United States—			
Ore (<i>Mn content</i>)	323,415	278,070	245,910
Ferro-manganese and other Mn alloys (<i>Mn content</i>) (b)	62,785	38,452	17,764
Argentina—			
Dioxide and borate of manganese	45	76	240
Japan (total imports)—			
Ferro-manganese	2,429	2,097	904

(a) Information not available.

(b) Total imports.

MICA

PRODUCTION OF MICA
(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Kenya	2	—	—
Nigeria	—	(8 cwt.)	(17 cwt.)
Northern Rhodesia	3	4	1
Southern Rhodesia	169	162	66
South West Africa (waste)	31	—	—
Tanganyika Territory	29	21	9
Union of South Africa (b)	1,525	878	843
Canada—			
Rough cobbled	—	20	—
Thumb trimmed	43	4	22
Splittings	10	34	17
Scrap	3,566	987	1,156
Ceylon (exports)	(12 cwt.)	—	2
India (exports)—			
Sheet	890	741	414
Splittings	4,914	3,404	2,235
Australia	46	26	29
FOREIGN COUNTRIES			
France	2	(a)	(a)
Norway (exports)—			
Sheet	—	1	(a)
Scrap	58	51	(a)
Sweden	65	72	(a)
Madagascar—			
Muscovite	26	21	14
Phlogopite, etc.	344	322	217
United States (sales)—			
Sheets (uncut)	909	654	430
Scrap	5,583	6,011	5,912
Argentina	117	98	(a)
Brazil	44	51	(a)
Korea	22	28	(a)
Guatemala	2	(a)	(a)

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

(a) Information not available.

(b) Nearly all scrap.

The following amounts of lithium mica were produced :—

	1929	1930	1931	
South West Africa	—	250	100	long tons.
Czechoslovakia	—	30	7	” ”
France	1,500	(a)	(a)	” ”
Germany	777	773	(a)	” ”
Portugal	740	269	564	” ”

EXPORTS OF MICA
(Domestic Produce)
(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Sheet and splittings	15	8	—
Kenya	2	—	(£5)
Southern Rhodesia	171	207	75
Tanganyika Territory	27	21	9
Union of South Africa	844	—	517
Canada—			
Rough-cobbed and thumb- trimmed	1	1	21
Splittings	81	35	17
Scrap and waste	4,276	928	1,100
British India—			
Sheet	890	741	414
Splittings	4,914	3,404	2,235
Ceylon	(12 cwt.)	—	2
FOREIGN COUNTRIES			
Austria	4	5	29
Belgium-Luxemburg E.U.—			
Sheet and plate	17	3	62
France—			
Unmanufactured	334	207	193
Sheet, plate and manufactures	198	71	27
Germany—			
Unmanufactured	67	75	75
Italy	6	5	1
Norway—			
Sheet	—	1	(a)
Scrap	58	51	(a)
Russia	21	220	—
Sweden (including manufactured)	22	(a)	(a)
Switzerland (including asbestos)	23	8	9
Madagascar			
Muscovite	24	19	2
Phlogopite, etc... ..	396	371	117
United States (including manu- factured)	2,762	2,113	2,339
Argentina	52	60	33
Brazil	44	51	54

(a) Information not available.

IMPORTS OF MICA

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Sheet and splittings	1,088	998	704
Ground	749	963	625
Union of South Africa—			
Micanite sheets	(£1,211)	(£1,038)	(£1,103)
Newfoundland (years ended June 30)	(£88)	(£28)	(£32)
British India (total imports)—			
Sheet	63	31	21
Splittings	2	19	13
Australia	(8 cwt.)	—	(8 cwt.)
FOREIGN COUNTRIES			
Austria—			
Unmanufactured	61	65	11
Sheet	28	26	15
Belgium-Luxemburg E.U.—			
Crude sheet and plate	68	144	145
Cut sheet and plate	37	31	16
Denmark	114	130	107
France—			
Unmanufactured	911	1,127	466
Sheet, plate and manufactures	250	51	51
Germany—			
Unmanufactured	969	610	341
Italy—			
Unmanufactured and sheet ..	159	268	236
Netherlands	32	39	33
Poland	24	27	29
Russia	14	32	30
Spain (total imports)—			
Sheet	8	9	21
Sweden—			
Mica and manufactured ..	73	(a)	(a)
Switzerland (including asbestos)	1,298	800	1,135
United States (total imports)—			
Unmanufactured	588	2,034	2,040
Cut, splittings and manufactures	2,541	1,246	545
Chile	2	3	1

(a) Information not available.

MOLYBDENUM

PRODUCTION OF MOLYBDENUM ORE

(In cwt. of concentrates)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Canada (<i>MoS₂ content</i>) ..	144	—	11
Australia	10	105	11
FOREIGN COUNTRIES			
Austria	77	5	—
Norway (<i>MoS₂ content</i>) ..	3,478	4,193	4,390
French Morocco (ore) ..	18	200	(a)
Mexico	—	—	112
United States (<i>MoS₂ content</i>)	59,830	55,402	46,416
China	160	100	(a)
Korea	582	520	(a)

(a) Information not available.

EXPORTS OF MOLYBDENUM ORE, ETC.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
Canada—			
Ore (<i>Mo content</i>)	—	180	—
Australia (including re-exports)—			
Ore	585	26	125
FOREIGN COUNTRIES			
France—			
Molybdic acid and molybdates	26	2	102
Norway—			
Ore	5,944	6,548	4,516
Morocco (French zone)—			
Ore	29	16	
Mexico—			
Concentrates (<i>Mo content</i>) ..	—	—	112

IMPORTS OF MOLYBDENUM ORE, ETC.

*(Less Re-exports)**(Cwt.)*

Importing Country and Description.	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	5,336	6,715	11,498
FOREIGN COUNTRIES			
France—			
Molybdic acid and molybdates	61	55	51
Italy—			
Ferro-molybdenum	468	1,559	1,183
United States—			
<i>Mo content</i> of—			
Ferro-molybdenum, etc. ..	15	1,294	94
Russia—			
Ferro-molybdenum	440	6,040	13,000

MONAZITE

PRODUCTION OF MONAZITE

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
India	180	14	90
FOREIGN COUNTRIES			
Brazil (exports)	88	15	—

(a) Information not available.

EXPORTS OF MONAZITE, ETC.

(Domestic Produce)

Exporting Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom—				
Thorium nitrate	Cwt.	—	—	1
Gas mantles	Gross	26,317	20,359	16,144
British India—				
Monazite sand	Long ton	312	—	—
British Malaya (including re- exports)—				
Gas mantles	Gross	130	113	130
FOREIGN COUNTRIES				
Austria—				
Gas mantles	Cwt.	87	55	32
Belgium-Luxemburg E.U.—				
Gas mantles	Cwt.	195	108	73
France—				
Thorium nitrate and other rare-earth salts	Cwt.	47	30	286
Gas mantles	Gross	1,583	1,951	2,014
Germany—				
Gas mantles	Gross	121,250	104,899	75,514
Italy—				
Gas mantles	Gross	1,264	2,500	2,165
Netherlands—				
Gas mantles	Gross	29	67	31
Sweden—				
Gas mantles	Cwt.	184	87	38
Switzerland—				
Gas mantles	Cwt.	1	—	—
United States—				
Gas mantles	Gross	26,416	18,686	15,787
Brazil—				
Monazite sand	Long ton	88	15	—

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

IMPORTS OF MONAZITE, ETC.

(Less Re-exports)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom—				
Monazite sand	Long ton	292	(b) 1	148
Thorium nitrate	Cwt.	594	356	349
Gas mantles	Gross	9,300	7,854	13,874
Irish Free State—				
Gas mantles	Gross	3,239	3,311	3,285
Canada—				
Thorium nitrate, etc.	£	530	1,153	827
British India (total imports)—				
Gas mantles	£	55,754	43,378	37,000
British Malaya (total imports)—				
Gas mantles	Gross	7,176	3,286	2,667
Ceylon—				
Gas mantles	Gross	1,856	1,327	942
Australia—				
Gas mantles	Gross	7,548	7,271	5,623
FOREIGN COUNTRIES				
Austria—				
Gas mantles	Cwt.	18	14	4
Belgium-Luxemburg E.U.—				
Gas mantles	Cwt.	201	173	128
Estonia—				
Gas mantles	Gross	131	207	109
France—				
Thorium nitrate and other rare-earth salts	Cwt.	35	37	10
Gas mantles	Gross	1,125	736	1,007
Germany—				
Monazite sand	Long ton	866	123	97
Gas mantles	Gross	69	111	444
Hungary—				
Gas mantles	Cwt.	10	14	14
Italy—				
Gas mantles	Gross	83	63	92
Thorium and cerium salts	Cwt.	20	29	18
Jugoslavia—				
Gas mantles	Cwt.	92	33	16
Netherlands—				
Gas mantles	Gross	9,993	8,740	7,654

IMPORTS OF MONAZITE, ETC. (Cont.)

Importing Country and Description	Unit.	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Norway—				
Gas mantles	Cwt.	35	21	(a)
Poland—				
Gas mantles	Cwt.	22	24	18
Portugal—				
Gas mantles	Cwt.	19	25	29
Sweden—				
Thorium nitrate and other rare-earth salts	Cwt.	103	(a)	(a)
Gas mantles	do.	7	2	3
Switzerland—				
Gas mantles	Cwt.	10	7	9
Egypt—				
Gas mantles	£	18,435	16,141	11,645
United States—				
Monazite sand and thorite ..	Long ton	515	(a)	1,516
Thorium nitrate	Cwt.	87	36	(9 lb.)
Gas mantles	Gross	7,574	4,087	1,513
Brazil (total imports)—				
Gas mantles	Cwt.	17	15	10

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

(a) Information not available.

(b) Excess of re-exports.

NICKEL

PRODUCTION OF NICKEL ORE

(In terms of metal)

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Canada	49,230	46,325	29,315
India (b)	830	951	879
Australia	85	118	(1 <i>cwt.</i>)
Total	50,100	47,400	30,200
FOREIGN COUNTRIES			
Greece	254	—	(a)
Norway	431	862	523
United States (d)	306	275	333
New Caledonia (c)	4,300	4,800	3,800
Total	5,300	5,900	4,700
WORLD'S TOTAL	55,000	53,000	34,900

(a) Information not available.

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

(c) Estimated content of matte and ferro-nickel obtained at smelters.

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

EXPORTS OF NICKEL

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Cubes, rondels, etc. ..	8,124	4,318	4,135
Plates, sheets and anodes..	288	201	154
Ingots, sheets, etc. (alloys)	731	772	393
Nickel oxide.. .. .	9	9	6
Canada—			
Ore, matte, etc. (<i>Ni content</i>)	13,228	20,040	14,861
Nickel, fine	30,539	19,251	12,113
Nickel oxide (<i>Ni content</i>) ..	5,179	1,667	1,388
Australia (years ended June 30)			
Ores and concentrates (<i>Ni content</i>)	25	377	3
FOREIGN COUNTRIES			
Austria—			
Crude, scrap and alloys ..	277	309	422
Sheets, tubes, etc. and alloys	1,922	1,541	1,214
Belgium-Luxemburg E.U.—			
Ingots, etc.	251	265	318
Sheets, wire, etc.	1,634	1,725	1,963
Czechoslovakia—			
Crude and scrap	11	8	5
Denmark—			
Sheets, rods, wire and alloy	6	6	4
France—			
Ore	37	26	37
Matte and speiss	34	24	374
Ingots	136	378	341
do. (alloys)	18	11	37
Sheets and wire	41	19	11
do. (alloys)	126	120	97
Nickel sulphate and oxide..	30	46	44

EXPORTS OF NICKEL (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Germany—			
Nickel and chrome ores ..	297	624	387
Crude and coin	2,056	1,835	2,329
Bars, sheets, wire, etc. ..	498	390	311
Hungary—			
Crude, scrap and alloys ..	19	2	6
Italy—			
Nickel and alloys	186	469	224
Netherlands—			
Crude and scrap	96	64	52
Norway—			
Ingots	390	697	2,250
Sweden—			
Crude	7	—	4
Switzerland—			
Crude, scrap, and alloys ..	476	309	201
Bars, sheets, etc., and alloys	670	498	357
United States—			
Nickel and alloys	1,281	1,268	793
Nickel-silver bars, etc. ..	466	501	183
French Indo-China—			
Ore, mixed with chrome ..	10	—	—
Nickel and alloys	—	99	—
New Caledonia—			
Ore	1,369	25	5
Matte, etc.	5,329	6,833	5,447

IMPORTS OF NICKEL

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore and matte (b)	2	18	—
Cubes, rondels, etc.	678	607	667
Plates, sheets and anodes	30	114	198
Ingots, sheets, etc. (alloys)	1,044	1,014	483
Nickel oxide	44	56	42
Irish Free State—			
Nickel, alloys and manufactures	225	223	173
Union of South Africa—			
Sulphate	3	3	1
Canada—			
Ingots or blocks and alloys	14	17	16
Bars, rods, sheets, etc.	555	500	28
do. (alloys)	147	100	58
British India (total imports)—			
Nickel-silver	918	958	677
Australia—			
Ingots, sheets, scrap, etc.	35	24	10
FOREIGN COUNTRIES			
Austria—			
Crude, scrap and alloys	2,684	2,105	1,165
Sheets, tubes, etc., and alloys	54	45	24
Belgium-Luxemburg E.U.—			
Ingots, scrap, etc.	3,151	2,383	7,707
Sheets, wire, etc.	189	288	114
Czechoslovakia—			
Crude and scrap	965	480	405
Plates and sheets	477	256	184
Denmark—			
Crude and scrap	12	19	19
Bars, sheets, wire and alloys	165	161	122

(b) Canada records exports to the United Kingdom of nickel contained in ore, matte or speiss as follows :—1929, 6,466 long tons ; 1930, 13,825 long tons ; 1931, 10,327 long tons.

IMPORTS OF NICKEL (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Finland—			
Crude and scrap	16	3	3
France—			
Ore	1,182	3,041	2
Matte and speiss	2,518	2,597	2,722
Ingots	2,786	1,126	1,438
do. (alloys)	68	37	71
Sheets and wire	345	353	285
do. (alloys)	408	748	774
Nickel sulphate and oxide	1,368	841	1,053
Germany—			
Ore	13,599	11,624	19,280
Crude and coin	4,409	2,609	2,558
Bars, sheets, wire, etc. ..	327	295	201
Greece	3	3	2
Hungary—			
Crude, scrap and alloys ..	68	71	79
Bars and wire	57	34	41
Italy—			
Ingots, scrap and alloys ..	1,683	1,611	1,284
Sheets, tubes, wire, etc., and alloys	75	160	178
Jugoslavia—			
Crude, scrap and coin ..	4	2	3
Bars, sheets, wire, etc. ..	4	9	19
Netherlands—			
Crude and scrap	168	99	60
Norway—			
Ore	156	15	(a)
Poland—			
Ingots, sheets, scrap, etc. ..	379	274	103
Portugal	11	3	3
Roumania—			
Crude and sheets	(a)	12	(a)
Russia—			
Ingots, sheets, etc.	945	2,861	3,780
Spain (total imports)—			
Ingots and cubes	201	200	143
Sheets, tubes, wire and alloys	178	139	55
Sweden—			
Crude	569	491	605
Sheets	25	(a)	(a)

IMPORTS OF NICKEL (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Switzerland—			
Crude, scrap, and alloys ..	526	582	342
Bars, sheets, etc., and alloys	517	366	304
Algeria—			
Sheets, wire and alloys ..	11	9	(a)
Egypt—			
Nickel and alloys	48	13	18
United States—			
Ore and matte	12,938	9,193	5,192
Crude, etc., and alloys ..	28,759	17,108	10,653
Nickel oxide	1,458	604	135
Argentina—			
Sheets	5	6	5
Brazil (total imports)—			
Cubes and sheets	14	51	4
Chile			
Bars and plates	13	44	9
China	112	56	79
French Indo-China	3	2	6
Japan (total imports)—			
Ingots and grains	728	515	765
Other nickel	30	19	34
Netherlands East Indies—			
Crude, etc., and alloys ..	8	2	(a)
Philippine Islands	1	3	2
Siam	9	9	10
Turkey—			
Nickel and alloys	18	1	7

(a) Information not available.

NITROGEN COMPOUNDS.

PRODUCTION OF NITRATES (NATURAL)

(Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
India— Nitrate of potash (estimated)	4,900	4,600	6,500
FOREIGN COUNTRIES			
Spain— Nitrified earth	1,000	900	(a)
Egypt— Nitrate shale (5% nitrate)..	940	1,634	(a)
Chile— Nitrate of soda	3,186,461	2,407,205	1,107,900
China— Nitrified earth	5,300	5,300	5,350

(a) Information not available.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS.*

(Long tons)

Producing country and Description	1929	1930	1931
BRITISH EMPIRE			
Great Britain— Ammonium salts expressed as sulphate (25½% NH ₃) (c)	912,259	777,090	646,629
Irish Free State— Ammonium sulphate ..	1,891	(a)	(a)
Union of South Africa— Ammonium sulphate ..	1,039	215	583
Canada—			
Ammonium sulphate ..	30,482	21,333	25,316
Ammonium phosphate ..	—	—	3,462
Cyanamide	225,004	147,782	(a)
India—			
Ammonium sulphate ..	17,567	16,131	12,133
Australia (years ended June 30)—			
New South Wales— Ammonium sulphate ..	17,617	7,096	8,169
Victoria—			
Ammonium sulphate ..	2,689	965	1,875
South Australia— Ammonium sulphate ..	1,113	761	873
Tasmania—			
Ammonium sulphate ..	44	63	76

* Includes by-product ammonium sulphate which is separately recorded on pages 75-78.

(a) Information not available.

(c) Estimated ammonium sulphate production (basis 25½% NH₃) was:—

1929	829,000 long tons.
1930	671,000 " "
1931	514,000 " "

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS
(Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Austria—			
Ammonium sulphate ..	5,687	6,942	6,310
Ammonium carbonate ..	(a)	(a)	110
Aqueous ammonia	(a)	(a)	690
Ammonia liquor	(a)	(a)	180
Belgium—			
Ammonium sulphate ..	188,170	(a)	(a)
Czechoslovakia—			
Ammonium sulphate ..	69,259	79,706	(a)
Cyanamide	30,478	26,920	(a)
Denmark—			
Ammonium sulphate ..	4,000	(a)	(a)
Finland—			
Ammonia	129	(a)	(a)
France—			
Saar—			
Ammonium sulphate ..	27,347	28,705	21,014
Other districts—			
Ammonium sulphate ..	270,500	293,200	(a)
Cyanamide	63,000	69,000	(a)
Nitrate of soda	2,000	2,000	(a)
Nitrate of lime	25,400	51,200	(a)
Ammonium sulphate			
nitrate	250	4,500	(a)
Amonitre	3,013	1,940	(a)
Nitropotasse	502	980	(a)
Other nitrogen fertilizers	9,000	7,400	(a)
Germany—			
Ammonium sulphate (b) ..	2,224,000	(a)	(a)
Cyanamide	430,000	(a)	(a)
Nitrate of lime	720,000	(a)	(a)
Nitrate of soda	226,000	(a)	(a)
Ammonium sulphate nitrate	200,000	(a)	(a)
Urea and nitrophoska ..	100,000	(a)	(a)
Ammonia products—			
Gas-works	33,400	31,300	(a)
Coke ovens	524,000	448,700	(a)
Tar distillation	18,200	12,800	(a)
Ammonium sulphate—			
By-product of brown coal, shale and peat carboni- zation	4,200	3,500	(a)

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS
(Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Ammonium sulphate ..	1,280	995	(a)
Ammonium chloride ..	313	350	(a)
Anhydrous ammonia ..	40	36	(a)
Italy—			
Ammonium sulphate ..	142,316	138,695	140,020
Cyanamide	67,300	100,673	86,657
Nitrate of lime	9,678	38,343	27,950
Nitrate of ammonia ..	11,365	10,804	6,100
Ammonium sulphate nitrate	3,599	580	(a)
Diammonium phosphate ..	—	4,211	(a)
Jugoslavia (exports)—			
Cyanamide	22,884	9,284	6,037
Netherlands—			
Ammonium sulphate ..	58,500	148,000	(a)
Norway (years ended June 30)—			
Ammonium sulphate ..	29	(a)	(a)
Cyanamide	70,403	49,009	(a)
Nitrate of ammonia ..	17,745	7,215	(a)
Nitrate of lime	145,896	443,760	(a)
Nitrate of soda	26,302	36,892	(a)
Nitrite of soda	653	(a)	(a)
Nitamonkalk	5,026	909	(a)
Nitamonfos	—	514	(a)
Poland—			
Ammonium sulphate ..	52,814	72,546	47,200
Ammonium chloride ..	—	—	170
Ammonium carbonate ..	—	—	100
“Wapnamon”	—	—	1,950
Cyanamide	146,000	82,786	35,200
Nitrate of soda	646	7,256	8,400
Saletrzak	—	9,457	40,050
Nitrophos	15,200	50,171	5,700
Nitrate of ammonia ..	5,524	8,232	2,000
Nitrate of lime	50	312	—
Portugal—			
Ammonium sulphate ..	8	(a)	(a)
Roumania—			
Ammonium sulphate ..	600	(a)	(a)
Cyanamide	17,546	5,946	(a)

(a) Information not available.

(b) The production from ammonia and sulphuric acid is estimated as follows:—

1929	1,057,380 long tons
1930	752,450 ” ”
1931	535,000 ” ”

Synthetic ammonium sulphate is also made from ammonium carbonate and gypsum.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS
(Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Russia (years ended Sept. 30)— Ammonium sulphate ..	19,023	9,731	(a)
Spain— Ammonium sulphate ..	25,200	(a)	(a)
Sweden— Ammonium sulphate ..	13,809	18,541	12,000
Cyanamide	17,819	20,523	16,042
Switzerland— Ammonium sulphate ..	524	300	200
Cyanamide	10,000	15,000	(a)
United States— Sulphate equivalent of ammonia produced (by- product)	790,000	712,500	499,000
do. (synthetic) ..	364,000	572,500	260,000
China (years ended March 30 following)— Ammonium sulphate ..	7,750	22,000	3,200
Japan— Ammonium sulphate ..	230,903	261,573	374,720
Cyanamide (c)	76,775	144,658	141,000
Aqueous ammonia (10%) ..	4,154	755	(a)
Do. do. (38%) ..	233	79	(a)
Korea— Ammonium sulphate ..	—	140,000	217,812

(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	1929	1930	1931
By-product sulphate of ammonia	400,000	392,000	305,000
Synthetic sulphate of ammonia	464,000	396,000	425,000
Cyanamide (b)	237,000	232,000	180,000
Nitrate of lime	133,000	121,000	100,000
Other forms of synthetic nitrogen (c)	396,000	410,000	355,000
Other forms of by-product nitrogen (c)	51,000	41,000	25,000
Chilean nitrate of soda	477,000	357,000	177,000
Total production ..	2,158,000	1,949,000	1,567,000
Consumption.			
Manufactured nitrogen ..	1,524,000	1,482,000	1,367,000
Chilean nitrate of soda ..	391,000	304,000	207,000
Total consumption ..	1,915,000	1,786,000	1,574,000
Agricultural consumption about	1,717,000	1,603,000	1,427,000

(b) Excluding part of the cyanamide made in Japan, which is included under synthetic sulphate of ammonia.

(c) Including ammonia liquor used for industrial purposes.

EXPORTS OF NITROGEN COMPOUNDS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Nitrate of potash	650	580	717
Nitrate of soda	441	216	6,320
Nitrate of lime	28	24	22
Ammonium sulphate	587,476	557,930	402,012
Ammonium chloride	3,941	4,079	4,740
Union of South Africa—			
Ammonium sulphate	10	1	—
Canada—			
Ammonium sulphate	21,865	10,724	5,024
British India—			
Nitrate of potash	4,585	3,827	6,156
Ammonium sulphate	—	4,850	3,001
British Malaya (including re- exports)—			
Nitrate of potash	196	217	114
Australia (including re- exports)—			
Nitrate of soda	—	2	4
Ammonium sulphate	10	67	210
New Zealand—			
Liquid ammonia (b)	(£165)	(£317)	(£81)
FOREIGN COUNTRIES			
Austria—			
Nitrate of potash	255	226	246
Ammonium sulphate	1,372	1,412	1,049
Liquid ammonia	11	7	10
Belgium-Luxemburg E.U.—			
Nitrate of potash	245	117	15
Nitrate of soda	1,870	2,481	14,183
Nitrate of lime	21	60	272

EXPORTS OF NITROGEN COMPOUNDS (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.			
<i>(Cont.)—</i>			
Ammonium sulphate ..	56,907	79,267	173,131
Ammonium chloride ..	462	253	381
Cyanamide	731	650	1,972
Liquid ammonia	5,393	1,592	981
Czechoslovakia—			
Nitrate of potash	96	104	84
Nitrate of soda	24	13	4
Ammonium sulphate ..	22,971	16,100	3,810
Ammonium chloride ..	187	620	94
Liquid ammonia	1	—	15
Denmark—			
Ammonium sulphate ..	821	334	—
France—			
Nitrate of potash—			
Natural	520	113	333
Synthetic	6,120	3,988	3,201
Nitrate of soda	2,935	2,022	1,998
Nitrate of lime	2,656	2,295	1,084
Ammonium nitrate ..	4	39	114
Ammonium sulphate ..	4,930	8,122	16,863
Cyanamide	2,554	1,223	580
Liquid ammonia	92	86	162
Germany—			
Nitrate of potash	28,084	25,590	35,675
Nitrate of soda	68,315	64,167	51,075
Ammonium sulphate ..	715,335	456,360	654,428
Ammonium chloride ..	23,264	21,291	22,439
Cyanamide	1,244	6,253	373
Liquid ammonia	4,896	5,371	2,059
Hungary—			
Ammonium sulphate ..	193	585	498
Liquid ammonia	—	21	16
Italy—			
Nitrate of potash	1	1	3
Nitrate of soda	12	44	21
Nitrate of lime	53	5	16
Ammonium nitrate ..	281	86	1,106
Ammonium sulphate ..	16,470	16,397	22,522
Cyanamide	30	10	48

(b) £ New Zealand.

EXPORTS OF NITROGEN COMPOUNDS (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Nitrate of soda	280	54	58
Cyanamide	22,884	9,284	6,037
Netherlands—			
Nitrate of potash	1,207	976	295
Nitrate of soda	1,758	1,876	1,216
Nitrate of lime	36	158	52
Ammonium sulphate ..	32,377	90,342	250,663
Ammonium chloride ..	38	18	14
Ammonium nitrate ..	40	41	1
Norway—			
Nitrate of soda	27,823	27,612	18,362
Nitrate of lime	204,270	360,848	287,096
Ammonium nitrate ..	5,485	4,549	2,293
Cyanamide	64,523	47,743	14,265
Poland—			
Nitrate of potash	61	—	1
Nitrate of soda	25	2	100
Nitrate of lime	238	20	1,768
Ammonium sulphate ..	18,142	55,477	38,333
Cyanamide	14,093	4,935	2,640
Liquid ammonia	1	23	—
Roumania—			
Ammonium chloride ..	(a)	68	(a)
Sweden—			
Nitrates of potash, soda and lime	10	7	14
Ammonium sulphate ..	650	1,491	1,723
Liquid ammonia	38	37	25
Switzerland—			
Nitrate of potash (crude) ..	—	500	15,273
Nitrates of potash and soda (purified)	3,229	6,936	3,677
Ammonium sulphate, etc..	2,823	313	1,586
United States—			
Ammonium sulphate ..	144,761	81,662	66,902
Algeria—			
Ammonium sulphate ..	5	40	(a)
Chile—			
Nitrate of soda	2,851,193	1,757,525	1,431,638
China—			
Ammonium sulphate ..	8,841	5,204	11,669

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Nitrate of potash	6,022	5,057	4,294
Nitrate of soda	77,147	44,512	76,915
Nitrate of lime	3,681	3,671	3,434
Ammonium sulphate	188	1,994	9,085
Ammonium chloride	2,733	2,714	3,796
Irish Free State—			
Nitrate of potash	196	149	165
Nitrate of soda	3,700	459	1,219
Ammonium sulphate	20,712	21,759	18,084
Mauritius—			
Nitrate of potash	3,225	4,918	(a)
Nitrate of soda	3,600	838	(a)
Ammonium sulphate	8,803	7,302	(a)
Northern Rhodesia—			
Nitrates	172	2	22
Nyasaland—			
Nitrates	326	46	163
Southern Rhodesia—			
Nitrate of potash	28	15	12
Union of South Africa—			
Nitrate of potash	117	125	137
Nitrate of soda	31,318	16,535	19,661
Ammonium sulphate	2,738	2,217	2,026
Ammonium chloride	35	34	20
Liquid ammonia (<i>gallons</i>) ..	12,361	13,635	9,967
Canada—			
Nitrate of potash	632	422	935
Nitrate of soda	30,248	28,401	13,616
Ammonium sulphate	1,538	3,056	11,455
Ammonium chloride	1,543	1,313	876
Barbados—			
Nitrate of soda	30	105	(a)
Ammonium sulphate	4,764	5,323	(a)

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (Cont.)			
British India (total imports)—			
Nitrate of soda	12,427	4,237	1,238
Ammonium sulphate	23,901	21,859	14,996
British Malaya (total imports)—			
Nitrate of potash	234	290	139
Ceylon—			
Nitrate of potash refuse	3,895	2,820	2,942
Nitrate of soda	4,986	3,656	1,599
Ammonium sulphate	16,444	16,128	12,595
Cyprus—			
Ammonium chloride	4	3	7
Australia—			
Nitrate of potash	713	1,042	480
Nitrate of soda	8,280	5,351	161
Ammonium chloride	5,626	12,695	3,179
Ammonium sulphate	496	786	393
New Zealand—			
Nitrate of potash	86	64	77
Nitrate of soda	2,098	1,854	670
Ammonium sulphate	8,992	8,244	4,845
Ammonium chloride	47	50	35
FOREIGN COUNTRIES			
Austria—			
Nitrate of potash	19	10	26
Nitrate of soda	3,581	2,983	2,925
Nitrate of lime	4,931	5,429	5,922
Nitrophoska	1,676	3,402	4,097
Cyanamide	10,365	10,370	9,099
Ammonium nitrate	1,185	995	885
Ammonium sulphate	188	323	345
Ammonium chloride	230	198	176
Liquid ammonia	17	15	18
Belgium-Luxemburg E.U.—			
Nitrate of potash	1,196	1,695	2,304
Nitrate of soda	139,695	140,378	171,871
Nitrate of lime	9,366	13,500	28,501
Cyanamide	41,818	31,355	20,105

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1929	1930	1931	
FOREIGN COUNTRIES (Cont.)				
Belgium-Luxemburg (Cont.)—				
Ammonium sulphate ..	38,029	36,040	69,549	
Ammonium chloride ..	4,310	1,124	1,137	
Liquid ammonia	116	197	15	
Bulgaria—				
Nitrate of potash	} 266	153	108	
Nitrate of soda		72	17	
Ammonium nitrate		270	174	
Ammonium chloride		75	61	88
Liquid ammonia		24	24	25
Czechoslovakia—				
Nitrate of potash	55	52	46	
Nitrate of soda	98,631	18,631	5,777	
Nitrate of lime	11,209	16,278	6,933	
Ammonium sulphate	1,117	119	4	
Ammonium chloride	175	54	11	
Cyanamide, etc.	28	21	33	
Liquid ammonia	21	1	—	
Denmark—				
Nitrate of potash	1,273	1,491	1,678	
Nitrate of soda	43,799	45,131	25,175	
Nitrate of lime	144,166	129,650	58,312	
Ammonium sulphate	47,833	37,038	44,490	
Ammonium chloride	434	446	420	
Cyanamide	846	1,409	812	
Estonia—				
Nitrate of potash	12	16	21	
Nitrate of soda	2,372	2,052	546	
Nitrate of lime	112	—	516	
Ammonium sulphate	520	199	217	
Ammonium chloride	28	21	8	
Cyanamide	72	149	—	
Liquid ammonia	—	—	20	
Finland—				
Nitrate of potash	37	35	50	
Nitrate of soda	211	339	974	
Nitrate of lime	18,454	17,255	12,120	
Ammonium nitrate	352	342	226	
Ammonium sulphate	281	156	135	
Ammonium chloride	24	20	16	
Liquid ammonia	18	19	18	

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France—			
Nitrate of potash—			
Natural	18	16	3
Synthetic	259	194	176
Nitrate of soda	569,064	276,205	368,143
Nitrate of lime	20,161	27,887	31,363
Ammonium nitrate	1,557	717	1,359
Ammonium sulphate	103,511	81,984	22,391
Cyanamide	12,475	18,713	4,850
Liquid ammonia	38	51	29
Germany—			
Nitrate of potash	152	66	12
Nitrate of soda	128,322	78,484	70,953
Ammonium sulphate	209	44,054	53,021
Ammonium chloride	79	108	81
Cyanamide	21,036	76	29
Liquid ammonia	1,349	501	603
Greece—			
Nitrate of potash	158	155	132
Nitrate of soda	14,549	3,399	5,562
Hungary—			
Nitrate of soda	1,808	1,217	361
Ammonium sulphate	872	1,389	736
Cyanamide	11,274	4,773	1,311
Liquid ammonia	31	60	70
Iceland—			
Nitrate of potash	7	} (a)	} (a)
Nitrate of soda	25		
Nitrate of lime	1,315		
Nitrophoska	507		
Italy—			
Nitrate of potash	1,771	1,720	2,496
Nitrate of soda	81,823	78,700	54,438
Nitrate of lime	24,681	20,130	362
Ammonium sulphate	10,927	20,809	5,697
Ammonium chloride	651	582	481
Cyanamide	19,732	10,696	69
Liquid ammonia	66	59	1
Jugoslavia—			
Nitrate of potash	37	28	27
Nitrate of soda	2,016	2,438	1,609
Ammonium sulphate	383	428	262
Ammonium chloride	109	150	121
Liquid ammonia	154	180	135

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Latvia—			
Nitrate of potash	30	26	37
Nitrate of soda	3,031	1,678	2,901
Nitrate of lime	2,297	1,471	2,216
Nitrophoska	319	539	1,087
Ammonium sulphate	1,140	251	1,088
Ammonium chloride	20	25	20
Lithuania—			
Nitrate of potash	25	35	92
Nitrate of soda	1,125	2,036	1,485
Netherlands—			
Nitrate of potash	965	1,503	1,435
Nitrate of soda	183,135	60,397	48,945
Nitrate of lime	87,902	71,969	71,344
Ammonium sulphate	124,475	30,235	169,888
Ammonium chloride	314	342	281
Ammonium nitrate	15,891	15,215	5,639
Norway—			
Nitrate of potash	147	153	(a)
Nitrate of soda	84	79	111
Nitrophoska	1,273	2,363	(a)
Ammonium sulphate	204	279	(a)
Poland—			
Nitrate of potash	491	412	474
Nitrate of soda	77,947	29,077	658
Nitrate of lime	47,345	47,629	280
Ammonium sulphate	308	15	319
Ammonium chloride	203	146	84
Liquid ammonia	3	10	3
Portugal—			
Nitrate of potash	403	364	229
Nitrate of soda	3,317	4,716	3,695
Nitrate of lime	(a)	99	194
Ammonium sulphate	14,981	24,018	24,839
Ammonium chloride	50	11	16
Ammonium nitrate	—	—	49
Cyanamide	(a)	1,666	1,361
Roumania—			
Nitrate of potash	(a)	149	}
Nitrate of soda	(a)	796	
Ammonium nitrate	(a)	168	
Ammonium sulphate	(a)	151	
Ammonium chloride	(a)	182	
Liquid ammonia	(a)	94	(a)

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Russia—			
Nitrate of potash	2,168	3,054	2,170
Nitrate of soda	18,285	39,893	123
Nitrate of lime, etc.	34	20	—
Spain (total imports)—			
Nitrate of soda	170,452	46,094	101,966
Ammonium sulphate	237,366	237,692	260,667
Cyanamide	1,746	3,110	1,950
Sweden—			
Nitrate of potash	494	537	543
Nitrate of soda	42,332	36,927	26,354
Nitrate of lime	29,661	29,363	26,715
Ammonium nitrate	868	568	298
Ammonium sulphate	1,577	3,940	3,012
Ammonium chloride	310	312	387
Liquid ammonia	36	6	5
Switzerland—			
Nitrate of potash, crude	1,888	1,781	1,089
Nitrates of potash and soda, pure	462	429	376
Ammonium sulphate, etc.	2,071	3,096	2,808
Ammonium chloride	210	212	248
Liquid ammonia	43	52	52
Algeria—			
Nitrate of potash	114	97	} 3,100
Nitrate of soda	974	1,184	
Nitrate of lime	398	348	
Ammonium sulphate	9,686	5,536	6,470
Cyanamide	306	292	(a)
Egypt—			
Nitrate of soda	189,908	171,143	133,363
Nitrate of lime	63,772	86,511	79,132
Ammonium sulphate	2,254	3,156	3,420
Ammonium chloride	282	331	357
Liquid ammonia	39	(a)	(a)
Cyanamide	1,636	1,169	562
Réunion—			
Ammonium sulphate	844	1,400	(a)

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Tunis—			
Nitrate of potash	45	118	6
Nitrate of soda	232	192	262
Martinique—			
Nitrate of potash	391	69	} (a)
Nitrate of soda	3,912	1,608	
Nitrate of lime (b)	41	5	
Ammonium sulphate	2,580	3,280	
Mexico—			
Nitrates of potash and soda	6,252	6,450	(a)
United States—			
Nitrate of potash (b)	12,800	12,799	14,520
Nitrate of soda	921,264	558,648	548,459
Nitrate of lime (b)	31,684	43,871	28,761
Ammonium sulphate (b)	18,812	33,784	112,215
Ammonium chloride	4,268	2,959	2,532
Cyanamide (b)	184,260	144,522	51,314
Ammonium-sulphate-nitrate (b)	16,284	8,141	5,263
Argentina—			
Nitrate of potash	74	171	145
Nitrate of soda	824	1,536	995
Ammonium sulphate	44	81	2
Liquid ammonia	29	25	27
Brazil (total imports)—			
Nitrate of potash	5,105	1,362	1,851
Liquid ammonia	201	189	150
Chile—			
Nitrate and sulphide of potash	13	14	1
Liquid ammonia	56	47	36
Colombia—			
Nitrates of potash and soda	35	10	(a)
Peru—			
Liquid ammonia	47	92	46
Uruguay—			
Liquid ammonia	48	(a)	(a)
Ammonium sulphate	174	(a)	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF NITROGEN COMPOUNDS (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Venezuela—			
Nitrate of potash	63	(a)	(a)
Liquid ammonia	3	(a)	(a)
China—			
Nitrate of potash	1,478	1,357	1,652
Nitrate of soda	3,944	4,916	3,298
Ammonium sulphate	110,557	186,514	137,504
Ammonium chloride	113	3,578	573
Formosa—			
Nitrate of soda	142	149	(a)
Ammonium sulphate	85,905	115,784	(a)
Cyanamide	1,673	492	(a)
French Indo-China—			
Nitrate of potash	138	160	59
Nitrate of soda	30	—	—
Ammonium sulphate	332	589	246
Other nitrate fertilizers	548	655	240
Liquid ammonia, etc.	19	35	29
Japan (total imports)—			
Nitrate of soda	87,168	30,092	34,441
Ammonium sulphate	374,646	300,247	220,608
Ammonium chloride	2,464	2,145	2,191
Netherlands East Indies—			
Nitrate of potash	227	182	(a)
Nitrate of soda	729	599	(a)
Ammonium sulphate	119,809	113,018	115,466
Ammonium chloride	10	29	(a)
Liquid ammonia	239	305	(a)
Philippine Islands—			
Nitrate of soda	2	101	—
Ammonium sulphate	26,980	27,137	31,718
Anhydrous ammonia	(£4,041)	(£4,036)	(£5,800)
Syria and Lebanon—			
Nitrates	545	202	108
Turkey—			
Liquid ammonia and ammonium chloride.. ..	113	167	225
New Caledonia—			
Ammonium sulphate	—	5	—

(a) Information not available.

PETROLEUM AND ALLIED PRODUCTS

PRODUCTION OF CRUDE PETROLEUM (Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (c) (estimated)	166,000	164,000	143,000
Canada (b)	141,439	192,686	194,557
Barbados	1,357	(a)	(a)
Trinidad (b)	1,193,925	1,290,261	1,334,726
British Borneo (Sarawak)	748,405	688,424	527,020
India (b)	1,182,039	1,200,888	1,177,679
Total ..	3,430,000	3,540,000	3,380,000
FOREIGN COUNTRIES			
Czechoslovakia	13,645	22,436	19,424
Estonia (c)	4,586	9,847	15,316
France	78,025	80,564	78,038
Germany	101,242	171,575	225,315
Greece	300	443	(a)
Italy	5,793	7,668	15,932
Jugoslavia	—	273	207
Poland	664,033	652,296	620,526
Roumania	4,760,581	5,700,830	6,552,652
Russia	14,543,600	18,327,700	22,578,700
Spain (c)	6,221	5,715	5,608
Algeria	3,000	2,376	1,063
Egypt	267,816	280,585	280,360
Morocco (French zone) ..	40	(a)	(a)
Mexico (b)	6,770,876	5,989,390	5,005,815
United States (b)	136,124,700	121,352,800	115,010,900
Argentina	1,319,074	1,252,722	1,678,079
Colombia (b)	2,870,980	2,865,600	2,497,151
Ecuador	188,421	212,031	246,937
Peru	1,748,697	1,750,058	1,412,871
Venezuela	19,531,514	19,835,809	16,920,350
China (c)	4,367	53,250	55,031
Formosa (b)	9,253	(d)	(d)
Iraq	118,986	119,567	118,374
Japan	253,082	274,638	280,271
Netherlands East Indies ..	5,155,807	5,444,182	4,448,761
Persia	5,718,745	5,940,979	6,338,444
Total ..	200,300,000	190,300,000	183,300,000
WORLD'S TOTAL	203,700,000	193,800,000	186,700,000

(a) Information not available.

(b) The following conversion rates have been used: 35 gallons=1 barrel, and the undermentioned barrels=one ton:—Canada 7·9, Mexico 6·6, Trinidad 7·3, India 7·4, United States 7·4, Colombia 7·1, Formosa 7·0.

(c) Including shale-oil.

(d) Included with Japan.

PRODUCTION OF NATURAL GAS
(Thousand cubic feet)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (estimated)	7,000	7,000	7,000
Canada	28,378,462	29,376,919	26,530,902
FOREIGN COUNTRIES			
Czechoslovakia	60,042	109,149	34,830
France	11,544	(a)	(a)
Italy	247,144	307,186	427,777
Jugoslavia	54,273	188,765	225,182
Poland	16,502,076	17,180,686	13,889,841
Roumania	28,484,879	42,594,019	(a)
Russia (years ended Sept. 30) (<i>long tons</i>)	289,900	(a)	(a)
United States	1,917,693,000	1,943,421,000	1,637,000,000
Netherlands East Indies (<i>long tons</i>)	529,833	531,462	(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, Japan 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	1929	1930	1931
BRITISH EMPIRE			
Barbados (exports of manjak)	52	10	9
Trinidad	219,603	157,859	123,138
FOREIGN COUNTRIES			
Italy	904	286	(a)
Poland (ozokerite)	822	887	324
Switzerland (exports)	19,693	16,849	15,089
Egypt (exports)	50,682	53,813	34,676
Cuba (exports)	5,219	(a)	(a)
United States (sales)—			
Gilsonite	49,096	33,646	29,253
Ozokerite	259	—	—
Wurtzilite	179	198	115
Peru	935	(a)	(a)
Venezuela	27,474	—	(a)
Netherlands East Indies ..	14,793	8,639	(a)

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

(a) Information not available.

PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES			
Albania	2,472	(a)	(a)
Czechoslovakia	1,755	658	995
France	62,687	55,655	56,822
Germany	143,046	115,311	68,270
Greece	1,177	1,524	(a)
Italy	216,116	220,496	186,786
Jugoslavia	60	237	(a)
Spain	8,860	9,330	(a)
United States (sales) ..	668,348	593,635	420,081
Netherlands East Indies ..	14,793	8,639	(a)

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

(a) Information not available.

PRODUCTION OF OIL-SHALE

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	2,023,609	2,020,510	1,732,746
Australia	4,299	5,774	3,533
FOREIGN COUNTRIES			
Austria	660	379	(a)
Estonia	509,476	490,090	393,185
France (including boghead coal)	77,365	77,000	(a)
Germany (Bavaria) ..	593	535	411
Italy	8,101	10,923	9,974
Spain	54,033	54,276	(a)
United States	1,739	—	—

Oil-shale was also produced in Russia and China.

(a) Information not available.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS
(Domestic Produce)

Exporting Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom—				
Crude petroleum ..	Gallon	48,094	15,540	24,316
Motor spirit, etc. ..	do.	32,099,067	36,171,300	34,090,949
Kerosene	do.	16,378,969	14,571,681	11,504,476
Fuel oil and gas oil ..	do.	54,285,919	45,232,791	15,047,626
Fuel oil (bunkers) (b) ..	do.	244,784,273	247,979,487	185,128,644
Lubricating oil ..	do.	7,660,607	7,104,832	6,028,133
Other refined oils ..	do.	530,582	464,773	327,636
Mineral jelly	Long ton	319	373	258
Paraffin wax	do.	9,654	7,020	9,973
Malta—				
Fuel oil (bunkers) (b) ..	Gallon	967	1,434	699
Sierra Leone—				
Fuel oil (bunkers) (b) ..	Gallon	135	—	—
Other petroleum oils (bunkers) (b)	do.	1,058	—	1,572
Union of South Africa— (Foreign produce, bunkers)				
Motor spirit	Gallon	—	4,744	320
Kerosene	do.	4,966	4,174	2,651
Lubricating oil ..	do.	27,422	80,556	24,616
Fuel oil	do.	9,074,377	9,741,702	8,430,164
Canada—				
Crude petroleum ..	Gallon	28,177,495	19,259,585	16,277,182
Motor spirit	do.	4,669,078	7,256,557	5,500,606
Kerosene, etc. . .	do.	1,367,241	1,460,676	504,364
Fuel oil (bunkers) ..	do.	(c)	(c)	(c)
Mineral wax	Long ton	516	757	423
Other mineral oils ..	Gallon	433,634	315,779	885,122
British West Indies—				
Barbados—				
Manjak	Long ton	52	10	9
Trinidad and Tobago—				
Crude petroleum ..	Gallon	31,799,157	37,449,461	92,971,043
Motor spirit	do.	48,426,448	53,288,543	63,268,185
Kerosene	do.	1,903,291	1,804,455	1,413,686
Fuel oil	do.	206,173,757	175,861,921	155,653,752
Lubricating oil ..	do.	7,620	4,685	11,112
Road oil	do.	195,542	349,174	432,831
Asphalt—				
Crude	Long ton	29,400	20,350	9,250
Dried	do.	134,911	97,705	70,999

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Aden (including re-exports)—				
Motor spirit	Gallon	76,473	43,404	21,393
Kerosene	do.	198,173	125,400	72,632
Other mineral oils ..	do.	23,066	25,992	21,994
British Borneo—				
Sarawak—				
Crude petroleum ..	Long ton	152,806	124,364	94,849
Motor spirit	do.	230,717	183,933	128,401
Kerosene	do.	63,795	64,209	38,141
Fuel oil	do.	276,102	235,118	202,939
Solar oil	do.	11,034	37,775	46,549
Brunei—				
Crude petroleum ..	Gallon	—	—	4,784
British India—				
Petroleum	Long ton	15,483	16,125	15,925
Motor spirit, etc. ..	Gallon	113,038	77,355	68,935
Kerosene	Long ton	3,268	3,078	2,521
Fuel oil (bunkers) (b) (d)	Gallon	(a)	(a)	8,572,547
Paraffin wax	Long ton	64,006	61,194	51,602
British Malaya (including re-exports)—				
Motor spirit	Long ton	194,255	443,332	282,450
Kerosene	do.	99,716	118,868	70,035
Fuel oil	do.	85,293	97,533	103,675
do. (bunkers)	do.	277,311	331,019	243,079
Lubricating oil ..	Gallon	1,467,130	941,212	768,407
Other petroleum oils ..	Long ton	55	91	99
Paraffin wax	do.	270	118	98
Asphalt and bitumen ..	do.	2,016	1,340	627
Ceylon (b)—				
Crude petroleum (bunkers)	Long ton	171,919	181,869	184,473
Australia (including re-exports)—				
Crude petroleum ..	Gallon	242,105	308,584	283,265
Motor spirit, etc. ..	do.	100,801	68,281	92,394
Kerosene	do.	1,863,783	77,455	744,340
Lubricating oil ..	do.	315,639	331,213	194,361
Residual and solar oils	do.	163,135	52,349	57,072
Greases	Long ton	291	303	178
Paraffin wax, etc. ..	do.	13	2	1
New Zealand—				
Fuel oil (bunkers) (b) ..	Gallon	16,642,009	19,129,568	18,206,468

(a) Information not available.

(b) Foreign produce, *see* imports.(c) Figures of exports not shown. *See* imports.

(d) Six months only, July to December.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES				
Austria—				
Motor spirit	Long ton	2	37	8
Kerosene	do.	6	23	133
Lubricating oils ..	do.	157	132	47
Vaseline and paraffin wax	do.	2	1	11
Ozokerite and ceresin ..	do.	118	73	61
Asphalt products ..	do.	1,512	1,225	486
Petroleum coke ..	do.	100	103	—
Bulgaria—				
Gas oil	Long ton	5	—	—
Lubricating oil ..	do.	4	5	10
Belgium-Luxemburg E.U.—				
Crude petroleum ..	Long ton	70	306	31,179
Motor spirit	do.	252	537	327
Kerosene	do.	27	60	116
do. (bunkers) ..	do.	34	17	
Lubricating oil ..	do.	1,998	6,325	78,832
do. (bunkers) ..	do.	306	409	1,131
Fuel oil, etc. ..	do.	51	525	44,000
do. (bunkers) ..	do.	109	202	11,831
Other heavy oils ..	do.	2,164	529	138
Vaseline	do.	760	791	1,529
Paraffin wax	do.	455	833	5,352
Ozokerite and ceresin..	do.	100	95	145
Asphalt, bitumen, etc.	do.	1,648	1,461	2,505
Residual asphalt ..	do.	1,244	803	252
Czechoslovakia—				
Crude oils	Long ton	—	16	34
Refined oils	do.	9,533	8,900	4,476
Residual oils	do.	12	—	—
Paraffin wax	do.	872	1,635	2,591
Ozokerite and ceresin..	do.	357	285	401
Asphalt products ..	do.	1,400	1,137	468
Denmark—				
Fuel oil	Long ton	7	—	—
Crude residual oils ..	do.	234	381	102
Lubricating oil ..	do.	260	322	290
Paraffin wax, etc. ..	do.	22	35	32
Estonia—				
Shale oil	Long ton	1,836	1,344	2,274
Motor spirit	do.	206	224	510
Oil-shale	do.	2	625	40

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
France—				
Crude petroleum ..	Long ton	25	97	48
Motor spirit	Gallon	124,638	167,511	(c) 127,209
Kerosene	do.	24,395	18,698	(c) 31,017
Kerosene and motor spirit—				
Bunkers (domestic produce)	Long ton	519	630	(a)
Bunkers (foreign produce)	do.	9,470	12,092	(a)
Lubricating oil	do.	2,975	4,346	(c) 3,688
Gas-oil	do.	414	137	(c) 697
Fuel-oil	do.	103	145	(c) 681
Other residual oils ..	do.	1,135	2,457	3,761
Petroleum coke, etc. ..	do.	887	839	467
Heavy and residual oils—				
Bunkers (domestic produce)	do.	1,750	2,089	(a)
Bunkers (foreign produce)	do.	419,403	472,627	(a)
Vaseline	do.	164	103	98
Paraffin wax	do.	38	27	19
Ozokerite	do.	65	89	219
Asphalt and bitumen..	do.	33,419	30,583	25,922
Germany—				
Crude petroleum ..	Long ton	—	116	203
Motor spirit	do.	7,326	6,663	9,818
Kerosene	do.	111	35	31
Gas oil	do.	8,469	13,475	22,205
Fuel oil	do.	(a)	9,941	8,185
Lubricating oil ..	do.	74,912	98,919	97,627
Paraffin wax	do.	743	316	264
Ozokerite, etc... ..	do.	6,259	5,478	5,455
Asphalt	do.	29,903	14,356	11,688
Hungary—				
Lubricating and gas oil	Long ton	1,101	1,160	1,062
Paraffin wax, etc. ..	do.	—	3	1
Asphalt, bitumen and tar	do.	92	134	150
Petroleum coke	do.	239	121	—

(a) Information not available.

(c) Including bunkers for foreign ships.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Italy—				
Crude petroleum	Long ton	(b) 5	18	77
Motor spirit	do.	(b) 1,637	1,682	1,967
Kerosene	do.	(b) 162	157	139
Lubricating oil	do.	(b) 4,473	5,040	3,613
Other oils and residues	do.	(b) 6,196	12,931	9,289
Paraffin wax	do.	5	5	7
Ceresin	do.	62	52	44
Asphalt and bitumen ..	do.	76,957	53,679	44,513
Vaseline	do.	7	9	8
Jugoslavia—				
Motor spirit	Long ton	1	34	66
Lubricating oil	do.	16	55	328
Asphalt	do.	6	—	—
Latvia—				
Crude petroleum	Long ton	—	70	12
Kerosene	do.	10	23	23
Fuel oil	do.	29	20	472
Lubricating oil	do.	4,687	6,393	1,763
Netherlands—				
Crude petroleum	Long ton	1,554	193	84
Motor spirit	do.	37	87	109
Kerosene	do.	58	250	20
Gas oil	do.	5,037	14,153	8,446
do. (bunkers)	do.	17,860	30,692	28,793
Fuel oil	do.	18,278	23,618	11,265
do (bunkers)	do.	90,455	69,664	50,126
Lubricating oil	do.	916	750	567
Greases	do.	173	222	274
Vaseline	do.	351	278	124
Paraffin wax	do.	4,581	2,934	3,525
Ozokerite and ceresin..	do.	6	7	25
Asphalt	do.	132,624	115,606	86,246
Natural asphalt	do.	3,003	10,500	1,087
Norway—				
Lubricating oils	Long ton	342	1,398	(a)
Poland—				
Motor spirit	Long ton	37,164	33,138	61,345
Kerosene	do.	50,018	21,803	28,621
Fuel oil and gas oil ..	do.	50,979	33,775	35,297
Lubricating oils	do.	39,423	33,912	20,755
Greases	do.	47	216	170
Paraffin wax	do.	27,558	23,356	21,569
Ceresin and ozokerite..	do.	971	852	445
Asphalt rock	do.	16	27	—
Mastic asphalt	do.	877	112	32
Other asphalt and tar	do.	8,974	8,444	9,339

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Portugal—				
Fuel oil (bunkers) ..	Long ton	149	375	18
Roumania—				
Crude petroleum ..	Long ton	2,502	68,268	}
Motor spirit	do.	789,748	1,101,788	
Kerosene	do.	762,092	926,833	
Fuel oil	do.	1,158,958	1,625,195	
Residual oil	do.	(a)	70,216	
Paraffin wax	do.	3,422	2,330	
Asphalt and bitumen..	do.	(a)	103	
Russia—				
Crude petroleum ..	Long ton	305,364	289,021	376,139
Motor spirit	do.	1,004,746	1,391,192	1,580,110
Kerosene	do.	775,385	768,821	689,785
Fuel oil	do.	1,112,329	1,457,196	1,744,744
Gas oil	do.	249,877	396,904	425,843
Solar oil	do.	64,399	63,699	42,987
Ligroin (naphtha) ..	do.	75,362	39,436	49,809
Lubricating oil ..	do.	209,001	225,266	225,022
Ozokerite	do.	236	462	404
Asphalt.. ..	do.	147	126	728
Spain (including re-exports)—				
Motor spirit	Long ton	2,617	2,451	1,307
Kerosene	do.	52	262	220
Gas oil	do.	1,193	1,556	371
Fuel oil	do.	—	8,038	8,469
Lubricating oil ..	do.	220	220	102
Residual pitch.. ..	do.	266	249	148
Sweden—				
Crude and residual oils	Long ton	17	—	—
Motor spirit	Gallon	90,920	972,974	170,698
Kerosene	Long ton	3,975	5,472	5,073
Fuel oil	do.	—	332	1,570
Lubricating oil ..	do.	821	919	557
Paraffin wax	do.	11	3	18
Asphalt.. ..	do.	1,297	696	472
Pitch	do.	1,270	3,503	7,760

(a) Information not available.

(b) In addition the following was shipped as bunkers:—

Crude petroleum	293 long tons.
Motor spirit	793 " "
Kerosene	63 " "
Lubricating oil	2,180 " "
Other oils and residues ..	65,624 " "

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Switzerland—				
Lubricating oil and grease	Long ton	82	52	330
Asphalt and bitumen ..	do.	19,693	16,849	15,089
Paraffin wax and ceresin ..	do.	14	19	19
Algeria—				
Motor spirit	Gallon	824,181	60,845	} 49,318
Kerosene	do.	41,311	23,229	
Gas oil	Long ton	281	736	
Fuel oil	do.	194	419	
Lubricating oils	do.	137	456	
Asphalt and bitumen ..	do.	8	6	
Belgian Congo—				
Motor spirit	Long ton	458	907	714
Kerosene	do.	153	187	116
Other oils and greases ..	do.	120	3,270	139
Canary Islands				
(re-exports)—				
Fuel oil (bunkers) ..	Long ton	224,213	252,131	(a)
Cape Verde Islands—				
Fuel oil (bunkers) ..	Long ton	136,842	(a)	131,392
Egypt—				
Motor spirit	Long ton	30,028	53,368	51,944
do. (additional) ..	Gallon	740,648	119,168	—
Kerosene	Long ton	8,004	2,970	1,076
do. (additional) ..	Gallon	1,127,560	146,512	—
Fuel oil	Long ton	} 76,195	2,886	20,823
do. (bunkers) ..	do.		30,647	65,795
Lubricating oil, etc. ..	do.	367	193	71
Asphalt and bitumen ..	do.	50,682	53,813	34,676
Senegal (including re-exports)—				
Motor spirit (bunkers)	Long ton	669	49	(a)
Fuel oil (bunkers) ..	do.	89,004	92,422	117,415
Cuba (including re-exports)—				
Natural asphalt ..	Long ton	5,219	(a)	(a)
Mexico (c)—				
Domestic exports—				
Crude petroleum—				
Light	Gallon	880	440	—
Heavy	do.	541,472,050	444,982,290	359,011,850
Fuel oil	do.	132,367,940	236,498,390	229,156,680
Gas oil	do.	67,706,950	60,320,990	38,855,900
Motor spirit	do.	61,804,130	85,267,944	65,703,610

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
<i>Mexico (cont.)—</i>				
Kerosene	Gallon	52,023,830	52,291,530	46,443,300
Lubricating oils	do.	15,459,670	15,458,572	12,113,860
Asphalt (b)	Long ton	273,535	202,624	164,958
Refined from imported oil—				
Fuel oil	Gallon	9,143,186	—	—
Gas oil	do.	5,192,851	4,353,867	—
Motor spirit	do.	840,305	—	—
Kerosene	do.	22	—	—
Lubricating oil	do.	146,178	222,570	13,210
<i>Netherlands West Indies—</i>				
Crude petroleum	Long ton	507,946	(a)	(a)
Motor spirit	Gallon	366,801,529	(a)	(a)
Kerosene	do.	5,616,101	(a)	(a)
Gas oil and fuel oil	Long ton	9,360,640	(a)	(a)
Diesel oil	Gallon	4,073,428	(a)	(a)
do. (bunkers)		25,821,865		
Lubricating oil	do.	41,702,041	(a)	(a)
<i>United States—</i>				
Crude petroleum	Gallon	923,802,215	829,645,670	893,730,565
Motor spirit	do.	2,100,233,590	2,211,836,585	1,532,528,165
Kerosene	do.	693,712,320	584,138,940	438,694,550
Gas oil and fuel oil	do.	1,250,017,440	1,133,221,530	930,586,545
do. (bunkers)	do.	1,829,725,520	1,776,762,260	1,529,984,750
Lubricating oils	do.	377,128,150	344,725,395	281,724,065
Mineral spirits	do.	2,108,330	1,937,425	1,776,670
Residual oils	do.	1,223,530	801,815	720,895
Greases	Long ton	52,095	44,318	33,072
Paraffin wax	do.	142,533	130,773	129,681
Petroleum jelly	do.	3,158	4,925	4,939
Asphalt, bitumen, etc.	do.	469,969	387,098	274,175
Petroleum coke	do.	115,820	88,098	49,979
<i>Argentina—</i>				
Fuel oil	Long ton	8,643	7,815	1,559
<i>Chile—</i>				
Crude petroleum	Long ton	545	2,739	1,651
do. (bunkers)	do.	19,458	14,008	1,617
Motor spirit	do.	161	199	53
Kerosene	do.	76	162	76

(a) Information not available.

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

(c) Including bunkers.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Colombia— Petroleum	Long ton	2,536,500	2,614,242	2,392,825
Ecuador— Crude petroleum, etc...	Long ton	154,056	158,855	189,877
Peru— Crude petroleum	Long ton	1,004,006	1,009,637	796,624
Motor spirit	do.	312,314	284,279	265,665
Kerosene	do.	23,844	19,067	20,580
Fuel oil	do.	142,816	76,706	56,822
do. (bunkers)	do.	32,410	33,609	40,344
Lubricating oil	do.	1,913	1,698	758
Venezuela— Crude petroleum	Long ton	18,916,256	19,948,962	
Motor spirit	do.	17,940	(a)	(a)
Kerosene	do.	89	(a)	(a)
Gas oil	do.	22,238	(a)	(a)
Asphalt	do.	26,000	(a)	(a)
Formosa— Crude and heavy oils..	Gallon	639,837	650	(a)
Motor spirit	do.	81,906	549,870	(a)
Kerosene	do.	261,795	535,967	(a)
Lubricating oil	do.	40,605	7,580	(a)
Other light oils	do.	226,875	127,635	(a)
French Indo-China— Motor spirit, etc.	Long ton	19	10	7
Fuel oil	do.	6	8	20
Heavy oils, etc.	do.	52	190	167
Iraq (b)— Motor spirit	Gallon	1,160	240	3,704
Kerosene	do.	6,167	4,110	1,427
Fuel oil	Long ton	(a)	17	33
Lubricating oil.. ..	Gallon	5,337	6,808	52,317
Japan— Kerosene	Gallon	154,630	1,047,291	886,956
Other oils	Long ton	2,496	5,907	3,048

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Netherlands East Indies—				
Crude petroleum ..	Long ton	22,258	77,117	63,190
Motor spirit	do.	1,100,066	1,298,936	1,144,626
Kerosene	do.	528,813	507,329	412,343
Fuel and motor oils ..	do.	1,705,416	1,836,319	1,364,630
do. (bunkers)	do.	273,023	316,125	308,397
Batching oil	do.	38,083	24,331	(a)
Lubricating oil	do.	37,501	31,175	25,875
Greases	do.	621	463	} (a)
Paraffin wax	do.	54,182	29,124	
Asphalt	do.	83	71	
Turpene	do.	6,892	7,528	
Persia (including re-exports) (d)—				
Crude petroleum ..	Long ton	1,590,026	1,637,840	1,557,049
Motor spirit	do.	785,980	1,637,840	1,042,893
Kerosene	do.	1,664,120	904,050	533,573
Fuel and lubricating oils	do.	1,053,024	1,494,579	2,199,953
Syria and Lebanon—				
Asphalt and bitumen..	Long ton	1	187	2,975

(a) Information not available.

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

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom—				
Crude petroleum ..	Gallon	487,347,925	460,966,789	344,369,573
Motor spirit, etc ..	do.	754,051,316	926,882,081	877,884,102
Kerosene	do.	242,271,870	231,133,943	256,221,930
Fuel oil	do.	402,547,913	485,365,385	480,831,570
Gas oil	do.	110,973,406	128,154,010	81,973,281
Lubricating oil ..	do.	95,351,480	98,981,585	95,103,254
Other petroleum oils	do.	586,495	224,124	193,223
Mineral jelly	Long ton	3,086	3,023	3,201
Paraffin wax	do.	58,013	56,199	53,891
Ozokerite	do.	1,169	806	847
Asphalt and bitumen..	do.	192,023	180,752	161,230
Irish Free State—				
Motor spirit	Gallon	26,058,455	32,244,701	39,890,995
Kerosene	do.	11,725,949	14,661,680	14,860,595
Fuel oil and gas oil ..	do.	5,978,588	4,673,004	3,588,003
Lubricating oil	do.	2,557,584	2,390,641	2,466,308
Paraffin wax	Long ton	4,972	3,763	5,132
Asphalt and bitumen..	do.	15,635	19,374	18,852
Malta—				
Motor spirit	Gallon	531,954	2,410,561	3,051,679
Petroleum	do.	3,955,848	4,483,400	4,951,232
Fuel oil (b) (total im- ports)	Long ton	2,838	10,895	37,828
Anglo-Egyptian Sudan—				
Petroleum	Gallon	1,051,504	896,144	272,200
do. (additional) ..	Long ton	1,284	3,723	3,673
Motor spirit	Gallon	789,648	631,808	70,128
do. (additional) ..	Long ton	2,702	5,831	6,434
Fuel oil	do.	10,198	13,152	14,318
Lubricating oil, etc. ..	do.	1,988	2,019	1,395
Gambia—				
Motor spirit	Gallon	135,043	173,464	109,082
Kerosene	do.	61,278	67,710	40,224
Fuel oil	do.	41,866	46,607	46,531
Lubricating oil	do.	17,053	15,744	15,065
Gold Coast—				
Motor spirit	Gallon	5,898,100	7,276,309	4,324,721
Kerosene	do.	3,044,023	3,357,208	2,316,965
Fuel oil	do.	521,872	649,719	605,252
Lubricating oil	do.	433,558	486,842	387,935
Asphalt tar	do.	384,085	942,299	558,142
Pitch, etc.	Long ton	1,394	1,056	397

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Kenya and Uganda—				
Motor spirit	Gallon	7,440,960	6,481,686	5,174,106
Kerosene	do.	4,100,345	5,184,412	2,116,016
Fuel oil	do.	4,666,698	3,085,773	3,152,808
Lubricating oil	do.	870,317	808,544	467,360
Greases	Long ton	163	309	177
Mauritius—				
Motor spirit	Gallon	1,713,343	1,159,582	(a)
Kerosene	do.	847,069	641,111	(a)
Lubricating oils, etc.	do.	231,088	136,514	(a)
Fuel oil	do.	59,793	35,047	(a)
Refined motor grease	Long ton	80	35	(a)
Natural asphalt, etc. . . .	do.	939	1,054	(a)
Nigeria—				
Motor spirit	Gallon	3,838,941	6,140,977	3,437,654
Kerosene	do.	5,014,154	4,400,990	2,889,297
Fuel oil	do.	272,315	166,998	184,637
Lubricating oil	do.	581,073	642,322	361,386
Asphalt tar	do.	178,832	115,951	133,581
Pitch, etc.	Long ton	186	375	161
Nyasaland—				
Motor spirit	Gallon	429,356	453,365	450,446
Kerosene	do.	81,639	78,600	75,207
Fuel oil	do.	(a)	8,988	17,515
Lubricating oil	do.	35,943	35,512	28,549
Northern Rhodesia—				
Motor spirit	Gallon	750,982	1,264,413	1,279,144
Kerosene	do.	127,216	172,114	136,280
Lubricating oil	do.	130,019	163,908	129,175
Seychelles—				
Motor spirit	Gallon	14,438	20,156	20,267
Kerosene	do.	35,909	54,198	7,886
Fuel oil	do.	6,910	34,106	29,725
Lubricating oil	do.	1,663	4,901	4,474
Sierra Leone—				
Motor spirit	Gallon	293,767	369,962	308,180
Kerosene	do.	396,319	465,015	272,642
Fuel oil	do.	89,156	107,201	100,989
Lubricating oil	do.	36,034	47,495	34,460
Asphalt tar	do.	23,291	84,754	36,974
Pitch	Long ton	60	98	10

(a) Information not available.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Southern Rhodesia—				
Motor spirit	Gallon	3,064,896	3,615,789	3,386,118
Kerosene	do.	754,806	695,765	569,712
Lubricating oil	do.	465,010	435,651	332,160
Other oils	do.	96,853	92,407	166,630
Asphalt and bitumen..	Long ton	875	603	518
Paraffin wax	do.	473	534	409
South West Africa—				
Motor spirit	Gallon	1,858,185	1,557,734	875,674
Kerosene	do.	494,861	506,149	401,931
Lubricating oil	do.	302,491	217,483	102,857
Other oils	do.	252,959	1,245,256	263,526
Tanganyika Territory—				
Motor spirit	Gallon	1,899,303	1,811,409	1,423,124
Kerosene	do.	1,526,897	1,528,652	990,863
Fuel oil	do.	575,783	772,791	865,650
Lubricating oil	do.	295,215	200,287	188,197
Union of South Africa—				
Motor spirit	Gallon	67,047,674	62,691,275	64,300,792
Kerosene	do.	19,636,513	16,870,494	12,000,741
Fuel oil	do.	13,017,810	16,932,431	14,806,891
Lubricating oil	do.	6,074,588	5,742,859	4,789,734
Other oils	do.	873,101	1,366,708	520,665
Paraffin wax	Long ton	11,596	9,786	10,635
Asphalt and bitumen..	do.	20,129	26,047	26,712
Petroleum jelly	do.	184	119	203
Zanzibar—				
Motor spirit	Gallon	168,656	346,026	294,469
Kerosene, etc.	do.	371,972	765,138	367,647
Fuel oil	do.	74,282	131,354	184,491
Lubricating oil, etc. ..	do.	13,729	13,562	24,096
Canada—				
Crude petroleum	Gallon	1,129,318,884	1,086,902,106	1,074,439,975
Motor spirit	do.	175,151,570	163,446,548	116,712,705
Kerosene, etc.	do.	4,532,833	4,987,091	3,699,759
Lubricating oils	do.	17,404,194	16,309,806	13,778,816
Fuel oil (bunkers)	do.	32,302,642	31,560,548	35,900,828
Other petroleum oils ..	do.	194,794	308,019	578,535
Vaseline, etc.	£	51,247	47,382	50,868
Grease	Long ton	3,130	2,384	1,852
Paraffin wax, etc.	do.	1,648	1,717	1,296
Asphaltum oil, etc.	£	25,169	34,604	17,132
Asphalt	Long ton	47,991	38,207	32,947
Other products	Gallon	1,828,536	1,667,160	3,443,531

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Newfoundland (years ended June 30)—				
Crude petroleum ..	Gallon	189,278	204,323	171,069
Motor spirit	do.	2,348,805	2,646,118	2,744,117
Kerosene	do.	1,019,568	1,601,331	1,112,047
Lubricating oil ..	do.	274,516	302,401	252,246
Fuel oil	do.	—	26,615	71,037
British Guiana—				
Crude petroleum ..	Gallon	5,200	666,759	854,571
Motor spirit	do.	677,824	730,094	759,809
Kerosene	do.	530,609	490,199	520,529
Fuel oil	do.	349,484	318,587	417,548
Tar and pitch	Long ton	193	177	316
British West Indies—				
Bahamas—				
Crude petroleum ..	Gallon	571,000	536,000	565,000
Motor spirit	do.	858,000	860,000	753,000
Kerosene	do.	341,000	336,000	331,000
Lubricating oil ..	do.	(a)	32,000	28,000
Barbados—				
Motor spirit	Gallon	928,115	837,439	(a)
Kerosene	do.	501,503	364,404	(a)
Lubricating oil ..	£	5,008	5,132	(a)
Residual oil	Long ton	6,117	4,582	(a)
Bermuda—				
Motor spirit	Gallon	65,793	333,332	269,652
Kerosene	do.	424,717	505,734	659,175
Fuel oil	Long ton	2,359	2,197	9,276
Grenada—				
Motor spirit	Gallon	127,980	132,737	124,036
Kerosene	do.	110,279	104,995	101,087
Fuel oil	do.	12,081	20,292	21,041
Lubricating oil ..	do.	6,295	8,783	6,301
Road oil	do.	31,144	101,126	85,051
Jamaica—				
Motor spirit	Gallon	5,494,605	4,452,862	4,938,063
Kerosene	do.	1,516,810	1,404,714	1,746,149
Gas oil and fuel oil ..	do.	13,771,592	632,704	2,167,941
Lubricating oil ..	do.	218,009	193,573	227,003
Other fuel oils	do.	—	19,125,990	20,619,612

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
British West Indies				
<i>(Cont.)—</i>				
Leeward Islands (a)—				
Motor spirit.. ..	Gallon	213,467	260,766	195,511
Kerosene	do.	212,265	172,576	157,879
Gas oil	do.	—	5,579	5,825
Fuel oil	do.	40,995	81,545	69,360
Road oil	do.	—	28,641	46,276
Lubricating oil ..	do.	21,574	38,858	20,753
St. Lucia—				
Motor spirit.. ..	Gallon	38,467	38,816	46,996
Kerosene	do.	54,294	48,866	46,162
Fuel oil	do.	11,400	15,243	17,496
Lubricating oil ..	do.	3,074	3,548	3,437
Road oil	do.	29,086	8,174	11,808
St. Vincent—				
Motor spirit.. ..	Gallon	64,400	75,724	87,349
Kerosene	do.	53,944	52,493	56,422
Fuel oil	do.	24,782	51,729	58,191
Lubricating oil ..	do.	5,562	1,851	4,180
Asphalt tar	do.	652	554	827
Pitch.. ..	Long ton	2	—	2
Trinidad and Tobago—				
Crude petroleum ..	Gallon	—	6,331,496	2,498,814
Motor spirit.. ..	do.	(e) 2,332	8,428	7,123
Refined petroleum, etc.	do.	154,009	94,617	49,879
Lubricating oil ..	do.	221,554	297,700	197,207
Fuel oil	do.	924,207	46	2,389,084
British Honduras—				
Motor spirit	Gallon	480,683	355,731	(a)
Kerosene	do.	295,536	220,993	(a)
Fuel oil.. ..	do.	96,560	38,300	(a)
Lubricating oil ..	do.	47,597	47,048	(a)
Aden (total imports)—				
Motor spirit	Gallon	340,248	359,842	321,764
Kerosene	do.	535,864	426,416	397,186
Fuel oil	Long ton	390,691	404,428	347,707
Lubricating oil ..	Gallon	63,193	82,200	96,893
Other oils	do.	508	92	62
British Borneo—				
Brunei—				
Kerosene	Gallon	91,736	125,361	124,427
Fuel oil	do.	(a)	107,583	120

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
British Borneo (Cont.)—				
Sarawak—				
Motor spirit.. ..	Gallon	226,253	205,777	129,977
Kerosene	do.	963,848	741,880	523,544
Fuel oil	do.	20,871	57,859	51,820
Lubricating oil	do.	182,430	116,397	125,946
State of North Borneo—				
Motor spirit.. ..	Gallon	150,097	179,640	93,590
Kerosene	do.	422,680	360,120	306,568
British India (total imports)—				
Motor spirit	Gallon	330,580	9,773,623	13,547,678
Kerosene	do.	103,300,553	108,489,396	72,997,029
Fuel oil	do.	114,966,030	107,582,226	104,313,690
White oil	do.	(f)2,647,916	1,104,892	823,675
Lubricating oil	do.	27,923,242	25,121,441	19,252,211
Other oils	do.	3,261,882	1,512,192	653,824
Paraffin wax	Long ton	961	1,645	847
Asphalt	do.	25,187	33,027	29,208
British Malaya (total imports)—				
Motor spirit	Long ton	280,485	546,774	354,982
Kerosene	do.	153,819	158,409	103,047
Fuel oil	do.	546,559	633,745	507,159
Lubricating oil	Gallon	6,090,910	4,086,394	2,969,807
Other oils	Long ton	30	325	99
Paraffin wax	do.	1,347	1,096	871
Asphalt and bitumen.. ..	do.	28,865	17,223	21,055
Ceylon—				
Crude petroleum (total imports) (b).. ..	Gallon	53,364,579	57,458,471	52,006,070
Motor spirit	do.	10,501,262	11,446,080	8,844,953
Kerosene	do.	8,515,604	8,710,658	7,919,771
Lubricating oil	do.	894,134	917,014	710,937
Asphalt	Long ton	16,251	15,306	9,500

(a) Information not available.

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

(d) Including inter-presidency trade.

(e) Excess of re-exports.

(f) April–December only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE (Cont.)				
Cyprus—				
Crude petroleum ..	Gallon	842,063	709,693	727,079
Motor spirit, etc. ..	do.	1,085,101	1,023,522	1,256,548
Kerosene, etc. ..	do.	835,172	938,562	1,001,113
Lubricating oil ..	Long ton	609	487	424
Paraffin wax ..	do.	85	52	41
Palestine (total imports)—				
Crude petroleum, etc. ..	Long ton	7,309	24,970	17,894
Motor spirit	Gallon	3,055,365	3,592,753	3,438,807
Kerosene	do.	8,431,306	8,291,361	9,117,858
Lubricating oils ..	Long ton	1,690	1,570	1,886
Other oils	do.	—	43	3
Paraffin wax	do.	50	104	85
Asphalt and bitumen ..	do.	866	1,530	1,959
Australia—				
Crude petroleum ..	Gallon	109,212,703	122,809,634	60,790,270
Motor spirit	do.	221,619,597	205,405,016	155,195,992
Kerosene	do.	39,988,852	38,891,508	26,055,471
Lubricating oil ..	do.	17,091,927	11,019,417	7,914,366
Residual and solar oils	do.	1,052,745	1,529,427	40,076,105
Petroleum jelly ..	Long ton	618	434	492
Greases	do.	2,792	1,163	885
Paraffin wax, etc. ..	do.	3,112	2,239	2,207
Mastic asphalt ..	do.	1,002	268	25
Fiji Islands—				
Motor spirit	Gallon	1,074,035	961,156	673,710
Kerosene	do.	387,875	372,145	267,722
Lubricating oil ..	do.	81,725	86,392	64,924
New Zealand—				
Crude petroleum, fuel oil, etc.	Gallon	28,349,403	43,833,938	36,746,724
Motor spirit	do.	62,403,206	68,294,208	61,828,003
Kerosene	do.	7,129,908	6,230,161	3,666,542
Lubricating oil ..	do.	3,249,642	3,371,786	1,723,253
Other refined oils ..	do.	152,770	234,554	183,758
Paraffin wax	Long ton	1,626	1,415	1,226
Asphalt	do.	25,920	21,145	18,013
Solomon Islands—				
Motor spirit	Gallon	66,335	66,856	90,795
Kerosene	do.	104,621	73,571	87,338
Lubricating oil ..	do.	17,469	11,494	14,264
Western Samoa—				
Motor spirit	£	10,722	9,035	3,658
Kerosene	£	6,379	3,173	1,966
Lubricating oil ..	£	1,687	2,181	752
Fuel oil	£	227	173	66

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES				
Austria—				
Crude petroleum	Long ton	49,879	110,847	145,142
Motor spirit	do.	102,306	108,278	83,147
Kerosene	do.	30,745	27,357	21,041
Gas oil	do.	31,426	19,742	19,241
Lubricating oils	do.	10,791	9,497	8,543
Vaseline	do.	161	145	165
Paraffin wax	do.	3,367	2,969	2,971
Asphalt products	do.	11,839	2,286	1,035
Petroleum coke	do.	3,263	2,541	1,718
Ozokerite and ceresin	do.	204	207	186
Asphalt	do.	1,201	1,830	1,048
Belgium-Luxemburg E.U.—				
Crude petroleum	Long ton	1,175	477	39,322
Motor spirit	do.	189,847	216,890	243,207
Kerosene	do.	69,640	75,145	95,655
Lubricating oil	do.	70,798	98,899	168,114
Fuel oil, etc.	do.	88,973	114,820	195,243
Other heavy oils	do.	1,952	2,147	126
Vaseline	do.	784	572	1,122
Paraffin wax	do.	6,750	5,153	7,066
Ozokerite and ceresin	do.	313	333	391
Asphalt, bitumen, etc.	do.	16,740	15,510	15,865
Residual asphalt	do.	8,461	8,866	11,062
Bulgaria—				
Motor spirit	Long ton	11,246	10,270	8,733
Kerosene	do.	32,477	29,664	29,060
Gas oil	do.	24,393	24,268	23,529
Fuel oil	do.	7,190	6,872	5,162
Lubricating oil, etc.	do.	7,919	6,790	7,443
Paraffin wax, ceresin, etc.	do.	489	174	283
Tar	do.	258	47	137
Vaseline, etc.	do.	44	17	57
Asphalt and bitumen	do.	415	248	2,558
Czechoslovakia—				
Crude oils	Long ton	153,395	144,026	129,399
Refined light oils	do.	173,179	224,575	223,504
Refined heavy oils	do.	31,072	27,961	23,914
Residual oils	do.	24	31	10
Paraffin wax	do.	1,435	693	270
Ozokerite and ceresin	do.	32	157	412
Vaseline	do.	190	198	187
Asphalt products	do.	9,862	8,860	8,735

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Denmark—				
Motor spirit	Long ton	171,640	203,868	238,583
Kerosene	do.	87,188	81,842	84,151
Fuel oil	do.	137,633	193,646	190,072
Crude residual oil	do.	2,788	4,261	752
Lubricating oil	do.	21,634	23,202	26,893
Vaseline	do.	111	117	109
Ozokerite, etc	do.	70	65	70
Paraffin wax	do.	717	730	702
Asphalt rock	do.	9,907	9,315	12,169
Estonia—				
Crude petroleum	Long ton	2,830	2,992	1,968
Motor spirit	do.	5,713	8,956	7,080
Kerosene	do.	15,851	17,205	18,109
Fuel oil	do.	429	710	806
Gas oil	do.	(a)	(a)	863
Lubricating oil	do.	2,444	2,318	1,935
Vaseline	do.	4	6	14
Paraffin wax, etc.	do.	205	206	141
Asphalt and tar	do.	342	304	274
Finland—				
Crude petroleum	Long ton	12,536	16,348	12,567
Motor spirit	do.	66,665	92,251	55,795
Kerosene	do.	35,536	37,118	31,797
Lubricating oil	do.	11,684	9,207	7,385
Vaseline	do.	403	400	372
Paraffin wax, etc.	do.	884	631	456
Asphalt and tar	do.	9,700	7,796	6,624
France—				
Crude petroleum	Long ton	23,021	444,765	510,369
Motor spirit	Gallon	509,145,722	568,911,736	649,648,544
Kerosene	do.	64,370,514	51,717,755	52,348,600
Lubricating oils	Long ton	275,815	273,250	231,364
Fuel oil	do.	491,238	531,254	581,609
Gas oil	do.	162,751	152,676	250,179
Other residual oils	do.	115,046	78,747	71,489
Petroleum coke, etc.	do.	30,557	24,415	13,781
Paraffin wax	do.	7,090	7,688	6,332
Ozokerite	do.	617	527	625
Asphalt and bitumen.. ..	do.	23,718	22,290	29,477
Vaseline	do.	25	40	26

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Germany—				
Crude petroleum	Long ton	88,595	328,223	237,137
Motor spirit	do.	1,048,980	1,412,011	1,325,389
Kerosene	do.	146,460	204,307	128,278
Gas oil	do.	359,040	454,855	402,886
Fuel oil	do.	(a)	325,852	280,554
Lubricating oil	do.	647,449	362,018	358,508
Paraffin wax	do.	14,342	12,282	12,661
Ozokerite, etc.	do.	1,737	1,645	1,626
Asphalt	do.	53,946	25,406	18,439
Greece—				
Motor spirit	Long ton	45,299	46,791	48,941
Kerosene	do.	28,860	24,748	21,807
Fuel oils	do.	63,347	78,405	84,970
Other oils and greases	do.	8,200	8,748	7,169
Paraffin wax	do.	9	3	1
Vaseline	do.	47	65	64
Asphalt and bitumen ..	do.	4,763	5,571	5,102
Hungary—				
Crude petroleum	Long ton	134,078	212,672	151,089
Motor spirit	do.	30,561	9,835	3,494
Kerosene	do.	20,834	9,405	1,417
Gas oil	do.	9,184	4,445	2,050
Lubricating oil	do.	7,559	6,794	3,877
Paraffin wax, etc. ..	do.	1,076	1,015	818
Vaseline	do.	178	167	198
Asphalt, bitumen and tar	do.	11,004	12,091	8,709
Petroleum coke		200	397	293
Iceland—				
Motor spirit	Long ton	3,034	(a)	(a)
Solar and gas oils ..	do.	6,408	(a)	(a)
Paraffin wax	do.	15	(a)	(a)
Asphalt	do.	150	(a)	(a)
Italy—				
Crude petroleum	Long ton	58,851	94,915	99,915
Motor spirit	do.	380,669	383,615	359,899
Kerosene	do.	159,077	154,020	145,213
Lubricating oil	do.	79,663	83,605	71,777
Other oils and residues	do.	583,245	762,080	793,966
Vaseline	do.	385	324	284
Paraffin wax	do.	23,781	26,664	24,754
Ceresin	do.	101	105	76
Bitumen	do.	51,942	78,272	71,982
Petroleum coke	do.	5,495	2,044	2,536

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Jugoslavia—				
Crude petroleum ..	Long ton	101,456	145,328	53,331
Motor spirit	do.	4,638	4,511	3,856
Kerosene	do.	20,457	23,674	13,738
Gas oil, etc.	do.	1,563	1,594	2,836
Lubricating oil, etc. ..	do.	6,760	5,795	4,521
Paraffin wax	do.	2,372	2,611	1,974
Ozokerite and ceresin..	do.	114	78	74
Asphalt and bitumen..	do.	5,109	10,546	12,685
Latvia—				
Crude petroleum ..	Long ton	13,366	22,091	3,719
Motor spirit	do.	8,253	10,774	12,413
Kerosene	do.	16,564	16,805	21,040
Fuel oil	do.	508	698	820
Lubricating oil	do.	1,838	2,496	1,945
Paraffin wax	do.	343	302	266
Ozokerite and ceresin	do.	20	17	12
Asphalt	do.	84	158	70
Asphalt rock	do.	1,781	2,116	1,449
Lithuania—				
Motor spirit	Long ton	4,536	6,315	6,430
Kerosene	do.	15,921	18,527	18,461
Gas oil	do.	8,277	10,632	10,846
Lubricating oil..	do.	2,284	2,793	2,976
Paraffin wax, etc. ..	do.	348	492	254
Netherlands—				
Crude petroleum ..	Long ton	234,395	223,289	156,880
Motor spirit	do.	223,648	258,728	378,917
Kerosene	do.	191,775	176,130	209,408
Gas oil	do.	126,156	154,335	182,812
Fuel oil	do.	130,134	110,331	98,474
Lubricating oil ..	do.	55,220	52,727	52,564
Greases	do.	1,927	2,093	1,753
Vaseline	do.	876	860	620
Paraffin wax	do.	7,921	6,679	6,353
Ozokerite and ceresin	do.	167	208	163
Asphalt	do.	5,999	8,203	7,653
Natural asphalt ..	do.	10,144	14,195	5,687
Norway—				
Crude petroleum ..	Long ton	23,130	31,740	37,099
Motor spirit	do.	76,172	85,066	86,372
Kerosene	do.	37,845	33,789	38,814
Fuel oil.. ..	do.	125,571	114,147	136,183
Vaseline and greases ..	do.	616	633	482
Asphalt, bitumen, etc..	do.	6,327	8,629	(a)

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Poland—				
Crude petroleum ..	Long ton	—	939	—
Motor spirit	do.	150	554	7
Kerosene	do.	626	320	4
Fuel oil and gas oil ..	do.	605	1,368	1,278
Lubricating oils ..	do.	3,763	2,679	2,354
Greases	do.	288	59	107
Vaseline	do.	225	229	201
Paraffin wax, etc. ..	do.	141	318	294
Asphalt rock	do.	1,996	979	243
Mastic asphalt ..	do.	1,450	922	622
Other asphalt and tar..	do.	2,994	3,153	2,670
Portugal—				
Motor spirit	Long ton	39,392	45,709	46,633
Kerosene	do.	34,692	40,998	40,272
Vaseline	do.	75	73	74
Paraffin wax	do.	1,115	900	1,004
Roumania—				
Motor spirit	Long ton	(a)	10	} (a)
Residual oils	do.	(a)	3,312	
Vaseline	do.	(a)	82	
Paraffin wax	do.	(a)	7	
Ceresin and ozokerite..	do.	(a)	128	
Greases.. ..	do.	(a)	165	
Asphalt and bitumen..	do.	(a)	87	
Russia—				
Crude petroleum ..	Long ton	108	11,092	—
Vaseline	do.	353	185	3
Paraffin wax	do.	297	47	—
Ozokerite and ceresin	do.	75	143	25
Asphalt and tar ..	do.	417	714	387
Spain (total imports)—				
Crude petroleum ..	Long ton	27,012	33,930	20,586
Motor spirit	do.	276,381	341,304	386,126
Kerosene	do.	16,923	19,018	18,913
Gas oil	do.	90,036	124,129	94,102
Fuel oil	do.	18,561	53,072	161,756
Lubricating oils ..	do.	24,529	28,581	32,331
Residual pitch ..	do.	52,856	36,192	51,890
Vaseline and its oils ..	do.	917	1,179	1,409
Paraffin wax	do.	5,542	8,574	7,907

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Sweden—				
Crude	Long ton	116,118	38,721	30,024
Motor spirit	Gallon	75,141,237	90,608,475	94,837,079
Kerosene	Long ton	67,777	77,812	75,038
Fuel oil and gas oil	do.	(b)	114,208	167,232
Lubricating oil	do.	39,295	39,343	44,862
Vaseline	do.	255	268	244
Other refined oils	do.	3,603	2,112	2,808
Paraffin wax	do.	4,199	4,391	3,454
Ozokerite and ceresin.. .	do.	148	163	146
Asphalt	do.	11,975	15,168	9,443
Pitch	do.	16,319	13,911	18,020
Switzerland—				
Motor spirit	Long ton	137,809	156,378	179,021
Kerosene	do.	26,368	24,109	24,097
Petroleum distillates, etc.	do.	1,686	1,781	1,705
Fuel oil	do.	70,050	77,896	95,950
Lubricating oil and grease	do.	20,586	21,431	20,942
Vaseline	do.	303	281	327
Paraffin wax and ceresin	do.	1,353	1,387	1,629
Asphalt and bitumen.. .	do.	1,644	1,736	1,662
Abyssinia—				
Motor spirit	Long ton	952	618	579
Kerosene	do.	1,787	2,187	1,471
Algeria--				
Motor spirit	Gallon	30,236,727	33,985,766	37,304,445
Kerosene	do.	11,862,212	12,164,216	13,020,404
Gas oil	Long ton	11,495	10,602	(a)
Fuel oil.. .. .	do.	5,064	9,219	(a)
Lubricating oil	do.	13,612	13,485	(a)
Paraffin wax, etc.	do.	147	115	(a)
Vaseline	do.	25	29	(a)
Residual asphalt	do.	15,657	33,568	(a)
Asphalt and bitumen	do.	2,001	1,299	(a)

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Belgian Congo—				
Motor spirit	Long ton	17,634	20,938	11,905
Kerosene	do.	2,799	1,789	1,401
Fuel oil, etc.	do.	18,144	10,283	18,340
Lubricating oils and greases	do.	3,646	3,680	2,858
Cameroon (French)—				
Motor spirit	Long ton	2,515	2,997	2,081
Kerosene	do.	1,682	1,794	808
Heavy oils	do.	642	331	580
Cape Verde Islands—				
Motor spirit	Long ton	134	133	65
Kerosene	do.	372	439	397
Fuel oil (d)	do.	138,657	138,995	136,400
Dahomey—				
Motor spirit	Long ton	1,181	1,109	1,205
Kerosene	do.	2,846	3,090	1,844
Heavy oils	do.	310	353	168
Egypt—				
Motor spirit	Long ton	73,981	71,110	58,068
do. (additional) (c) ..	Gallon	81,408	32,192	—
Kerosene	Long ton	294,731	280,254	310,404
do. (additional) (c) ..	Gallon	111,104	252	—
Fuel oil, etc.	Long ton	122,344	124,933	144,555
Lubricating oil, etc. ..	do.	19,977	17,354	15,397
Vaseline	do.	42	119	116
Paraffin wax	do.	220	272	285
Asphalt and bitumen ..	do.	12,970	12,038	6,461
French Equatorial Africa—				
Motor spirit	Long ton	3,905	6,937	} 7,059
Heavy oils	do.	908	1,772	

(a) Information not available.

(b) Included under crude oil.

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

	1929	1930
Motor spirit..	8,451,823	367,592
Kerosene ..	5,358,432	217,400

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
French Guinea—				
Motor spirit	Long ton	436	748	721
Kerosene	do.	571	476	298
Heavy oils	do.	127	248	226
French Sudan—				
Motor spirit	Long ton	1,327	755	613
Kerosene	do.	162	83	122
Heavy oils	do.	245	151	128
Ivory Coast—				
Motor spirit	Long ton	4,025	5,094	3,470
Kerosene	do.	1,750	1,531	1,116
Heavy oils	do.	1,066	973	862
Liberia—				
Motor spirit	Long ton	185,914	(a)	(a)
Kerosene	do.	163,851	(a)	(a)
Madagascar (total im- ports)—				
Motor spirit	Long ton	3,795	4,507	4,550
Kerosene	do.	3,498	2,795	2,683
Heavy oils	do.	1,059	1,795	3,357
Vaseline	do.	9	6	8
Morocco—				
Motor spirit	Long ton	56,055	63,303	81,086
Kerosene	do.	20,836	19,720	22,388
Fuel oil	do.	8,256	8,449	11,197
Lubricating oil	do.	7,996	7,910	7,176
Paraffin wax	do.	683	821	864
Mozambique—				
Motor spirit	Long ton	4,312	6,292	9,245
Kerosene	do.	2,335	2,570	2,395
Fuel oil	do.	335	889	935
Lubricating oil	do.	1,197	1,599	1,663
Asphalt and bitumen	do.	659	95	224
Portuguese Guinea—				
Motor spirit	Long ton	542	648	} (a)
Kerosene	do.	220	177	
Fuel oil	do.	(a)	72	
Lubricating oil	do.	(a)	119	

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Réunion—				
Motor spirit	Long ton	1,251	1,586	} 1,931
Kerosene	do.	546	(a)	
Heavy oils, etc. ..	do.	280	1,279	
Senegal—				
Motor spirit	Long ton	6,376	11,006	6,052
Kerosene	do.	1,628	1,734	1,003
Heavy oils	do.	3,102	2,604	1,561
Fuel oil	do.	3,889	15,650	825
Bitumen	do.	213	544	(a)
Togoland—				
Motor spirit	Long ton	1,093	1,129	} 1,975
Kerosene	do.	1,660	1,367	
Heavy oils	do.	230	(a)	
Tunis—				
Motor spirit	Gallon	8,837,609	10,360,155	11,380,312
Kerosene	do.	7,763,477	7,699,663	7,614,577
Fuel oil	Long ton	16,073	21,893	13,751
Road oil	do.	(a)	(a)	7,457
Lubricating oils ..	do.	5,665	5,533	5,417
Vaseline	do.	11	8	8
Paraffin wax	do.	89	43	582
Bitumen	do.	945	893	706
Costa Rica (total imports)—				
Crude petroleum ..	Long ton	20,966	} (a)	} (a)
Motor spirit	do.	5,867		
Grease	do.	58		
Paraffin wax	do.	1,197		
Vaseline	do.	13		
Asphalt and bitumen..	do.	1,415		
Cuba (total imports)—				
Crude petroleum ..	Gallon	47,101,104	} (a)	} (a)
Motor spirit	do.	41,324,289		
Fuel oil	do.	174,199,298		
Gas oil	do.	2,789,879		
Lubricating oil ..	Long ton	15,161		
Kerosene	do.	906		
Vaseline	do.	134		
Asphalt rock	do.	2,658		

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES (Cont.)				
Dominican Republic (b)—				
Motor spirit	Gallon	3,837,858	3,156,196	} (a)
Kerosene	do.	1,266,861	973,159	
Fuel oil	Long ton	43,538	21,045	
Lubricating oil ..	do.	1,495	1,337	
French West Indies—				
Guadeloupe—				
Motor spirit	Long ton	(a)	2,822	(a)
Fuel oil	do.	447	530	(a)
Martinique—				
Motor spirit	Long ton	2,411	2,098	} (a)
Kerosene	do.	1,091	819	
Lubricating oil ..	do.	355	2,783	
Fuel oil	do.	551	568	
Guatemala—				
Crude petroleum ..	Long ton	64,204	} (a)	} (a)
Motor spirit	do.	10,536		
Kerosene	do.	3,050		
Lubricating oil ..	do.	699		
Paraffin wax	do.	787		
Greases	do.	59		
Asphalt and bitumen..	do.	491		
Mexico—				
Crude petroleum ..	Long ton	(a)	107,878	83,728
Motor spirit	do.	59,033	64,985	75,704
Kerosene	do.	6,615	8,872	7,822
Fuel oil and gas oil ..	do.	132,643	184,650	139,714
Paraffin wax	do.	8,349	5,176	4,059
Lubricating oil, etc. ..	do.	16,089	11,000	8,050
Vaseline	do.	182	170	146
Netherlands West Indies—				
Crude petroleum ..	Long ton	12,136,339	} (a)	} (a)
Motor spirit	Gallon	4,036,487		
Kerosene	do.	141,872		
Fuel oil and gas oil ..	Long ton	348,888		
Lubricating oil ..	Gallon	10,133		
Diesel oil	do.	3,200		
Nicaragua (b)—				
Crude petroleum ..	Long ton	13,819	20,448	18,837
Motor spirit	Gallon	1,062,693	880,077	800,620
Kerosene	do.	789,362	626,449	632,880
Lubricating oil ..	Long ton	573	520	340

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Panama—				
Motor spirit	Long ton	1,097	1,442	} (a)
Kerosene	do.	2,732	2,743	
Fuel oil	do.	(a)	693	
Lubricating oil	do.	1,066	1,256	
Mineral grease	do.	57	76	
Asphalt	do.	138	179	
Tar and pitch	do.	46	46	
Paraffin wax	do.	39	21	
Vaseline	do.	10	7	
Salvador—				
Crude petroleum	Long ton	27,800	18,572	} (a)
Motor spirit	do.	6,427	6,449	
Kerosene	do.	2,633	2,214	
Paraffin wax	do.	570	551	
Asphalt	do.	605	4	
United States—				
Crude petroleum	Gallon	2,762,639,705	2,174,529,665	1,653,737,925
Motor spirit, etc. (b)	do.	309,200,570	592,438,000	476,747,425
Kerosene (b)	do.	7,280,280	7,003,010	401,695
Topped oils, including fuel oil (b)	do.	719,092,430	912,813,405	874,930,560
Tops and other unfinished distillates (b)	do.	182,105	5,214,755	1,399,545
Lubricating oil (b)	do.	1,377,390	865,480	1,106,000
Paraffin wax, etc.	Long ton	18,241	13,572	16,891
Mineral wax	do.	3,747	4,471	2,169
Asphalt and bitumen	do.	108,053	47,498	65,779
Argentina—				
Crude petroleum	Long ton	480,276	539,240	353,076
Motor spirit	Gallon	93,575,130	76,706,744	59,836,250
Kerosene	Long ton	210	212	291
do. (additional)	Gallon	16,261,128	15,857,108	11,687,654
Fuel oil and gas oil	Long ton	786,760	856,323	766,981
Lubricating oil	do.	49,427	46,813	27,728
Vaseline	do.	421	252	284
Grease	do.	2,779	3,349	1,663
Paraffin wax	do.	7,677	7,845	6,826
Asphalt rock	do.	2,345	16,550	14,553
Trinidad asphalt	do.	21,476	14,399	17,220
Asphalt for roofing	do.	1,613	1,891	1,335

(a) Information not available.

(b) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Bolivia—				
Motor spirit	Long ton	6,153	5,715	} (a)
Kerosene, etc.	do.	1,697	1,445	
Fuel oil	do.	29,483	24,993	
Lubricating oil	do.	2,394	1,738	
Paraffin wax, etc.	do.	2,248	1,262	
Asphalt and bitumen..	do.	181	72	
Brazil (total imports)—				
Motor spirit	Long ton	288,988	275,081	210,917
Kerosene	do.	115,404	89,037	96,981
Fuel oil	do.	331,435	368,543	385,986
Lubricating oil	do.	44,647	24,173	22,540
Vaseline	do.	251	152	273
Greases.. ..	do.	1,929	916	519
Paraffin wax	do.	1,201	889	575
Asphalt	do.	19,501	8,543	2,406
Chile—				
Crude petroleum	Long ton	976,231	851,305	1,198,515
Motor spirit	do.	8,436	8,549	3,257
do. (additional)	Gallon	25,459,847	28,254,707	27,359,076
Kerosene	Long ton	1,212	810	1,017
do. (additional)	Gallon	4,765,077	4,061,350	1,873,112
Lubricating oil	Long ton	14,333	15,326	(a)
Vaseline	do.	99	95	45
Greases.. ..	do.	1,249	1,241	503
Ozokerite	do.	12	24	4
Crude asphalt	do.	2,103	2,013	395
Paraffin wax	do.	6,985	6,793	8,930
Tar and pitch	do.	8,878	8,664	4,139
Colombia—				
Crude petroleum	Long ton	5,045	882	} (a)
Refined petroleum	do.	900	369	
Motor spirit	do.	27,497	13,033	
Fuel oil	do.	13,824	19,442	
Lubricating oil	do.	4,427	3,495	
Vaseline	do.	85	62	
Paraffin wax	do.	6,713	5,709	
Asphalt, etc.	do.	2,421	586	
Ecuador—				
Petroleum, crude	Long ton	17,622	17,105	18,359
do. refined	do.	6	15	1

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Ecuador (Cont.)—				
Motor spirit	Long ton	1,580	1,642	658
Kerosene	do.	782	756	327
Lubricating oils and greases	do.	853	921	711
Paraffin wax, etc. ..	do.	1,439	1,182	1,155
Vaseline	do.	20	19	13
Asphalt and bitumen..	do.	229	509	264
French Guiana—				
Motor spirit	Long ton	100	} 323	497
Kerosene	do.	402		
Fuel oil	do.	89		
Peru—				
Crude petroleum ..	Long ton	2	111	108
Motor spirit, etc. ..	do.	407	598	550
Lubricating oil ..	do.	3,001	2,218	979
Vaseline	do.	41	37	49
Paraffin wax	do.	4,306	2,691	3,533
Asphalt and bitumen	do.	2,638	940	307
Greases	do.	450	253	79
Uruguay—				
Motor spirit, etc. ..	Gallon	22,024,056	24,976,635	27,237,496
Kerosene	do.	8,947,800	9,710,013	10,220,459
Gas oil	Long ton	9,286	5,060	6,691
Fuel oil	do.	208,865	308,786	245,412
Lubricating oil and greases	do.	5,400	5,087	4,830
Paraffin wax	do.	210	164	169
Vaseline	do.	22	18	40
Asphalt	do.	2,280	(a)	(a)
Asphalt rock	do.	6,309	(a)	(a)
Venezuela—				
Crude petroleum ..	Long ton	83	(a)	} (a)
Motor spirit	do.	2,886	(a)	
Kerosene	do.	1,065	(a)	
Fuel oil	do.	689	(a)	
Vaseline	do.	25	(a)	
Asphalt and bitumen..	do.	1,769	(a)	
Paraffin wax	do.	1,852	(a)	
Tar and pitch	do.	119	(a)	

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
China—				
Motor spirit	Gallon	23,870,298	24,770,877	24,795,545
Kerosene	do.	199,386,078	154,673,830	142,633,650
Fuel oil	Long ton	183,909	151,093	117,133
Diesel oil	do.	4,381	9,509	40,626
Lubricating oil	Gallon	11,237,032	10,778,415	8,518,469
Solar oil	Long ton	15,620	42,266	69,577
Paraffin wax	do.	35,416	24,368	35,710
Asphalt	do.	13,964	12,075	13,328
Formosa—				
Crude and heavy oils	Gallon	6,572,571	7,319,600	} (a)
Motor spirit	do.	907,323	1,271,549	
Kerosene	do.	4,186,319	4,045,568	
Other light oils	do.	447,445	437,235	
Lubricating oil	do.	1,902,488	1,686,591	
Grease	Long ton	241	255	
Paraffin wax	do.	155	203	
French Indo-China—				
Refined petroleum	Long ton	61,324	57,165	44,461
Motor spirit	do.	30,558	33,981	28,903
Fuel oil	do.	3,486	11,522	10,263
Heavy oils, etc.	do.	19,446	13,582	19,446
Vaseline	do.	24	25	6
Ozokerite	do.	7	12	7
Paraffin wax, etc.	do.	1,105	1,481	1,181
Asphalt and bitumen..	do.	2,451	3,797	8,474
Iraq (b)—				
Motor spirit	Gallon	230,142	85,735	630,556
Kerosene	do.	2,490,170	1,619,247	1,338,516
Fuel oil	Long ton	36,515	34,885	34,493
Lubricating oil	Gallon	602,064	621,071	705,032
Japan (c) (d)—				
Crude oils	Gallon	419,816,500	426,374,700	453,608,100
Motor spirit	do.	9,813,600	2,890,100	2,288,700
Kerosene	do.	90,401,400	110,829,000	120,139,800
Lubricating oil	do.	6,572,800	5,130,900	5,060,100
do. (additional)	Long ton	20,648	19,909	16,990
Vaseline	do.	462	356	242
Paraffin wax	do.	16,897	18,834	22,395
Pitch and asphalt	do.	14,775	12,313	10,785

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931	
FOREIGN COUNTRIES(Cont.)					
Korea (c)—					
Crude and heavy oils..	Gallon	7,554,528	8,367,272	9,868,422	
Motor spirit	do.	5,911,076	5,911,405	8,308,074	
Kerosene	do.	13,517,416	9,614,069	7,641,301	
Lubricating oil ..	Long ton	9,465	9,792	10,262	
Paraffin wax	do.	953	277	178	
Netherlands East Indies—					
Motor spirit	Long ton	11,595	4,425	3,811	
Kerosene	do.	84,428	51,387	50,643	
Fuel and motor oils ..	do.	97,957	51,168	(a)	
Lubricating oil ..	do.	15,451	14,016	9,971	
Vaseline	do.	121	58	}	
Greases	do.	844	626		
Paraffin wax	do.	690	499		
Ceresin	do.	348	43		(a)
Pitch	do.	13	—		
Asphalt	do.	32,936	30,754		
Persia (c) (e)—					
Crude petroleum ..	Long ton	267	240	286	
Motor spirit	do.	12,097	14,250	13,960	
Kerosene	do.	33,141	30,317	34,322	
Fuel oil	do.	3,321	3,210	2,656	
Lubricating oil ..	do.	1,551	1,920	2,885	
Greases	do.	1,755	710	699	
Philippine Islands—					
Crude oil	Gallon	50,077,286	50,605,388	64,989,332	
Motor spirit	do.	21,388,772	20,533,738	31,902,391	
Kerosene	do.	18,605,815	15,127,507	20,806,222	
Other light oils ..	Long ton	152,777	39,570	40,472	
Lubricating oil ..	do.	2,495,329	3,150,992	2,676,900	
Residual oils	do.	1,156	911	2,170	
Mineral wax	do.	1,941	2,745	2,076	
Asphaltum	do.	4,030	7,280	6,897	

(a) Information not available.

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

(c) Total imports.

(d) Excluding fuel oil imported on government account.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	Unit	1929	1930	1931
FOREIGN COUNTRIES(Cont.)				
Siam (total imports)—				
Motor spirit	Gallon	5,230,509	5,339,587	4,199,899
Kerosene	do.	9,977,555	9,974,889	8,457,323
Fuel oil	do.	8,644,716	10,138,283	8,741,226
Lubricating oil	do.	1,276,202	1,300,517	1,113,247
Asphalt	Long ton	2,122	2,394	1,221
Syria and Lebanon—				
Motor spirit	Long ton	27,917	26,885	28,949
Kerosene	do.	34,844	27,468	34,828
Fuel oil	do.	2,834	8,379	5,645
Lubricating oils	do.	2,112	3,222	2,952
Paraffin wax	do.	72	56	85
Asphalt and bitumen..	do.	3,361	5,109	8,792
Vaseline	do.	52	16	16
Turkey—				
Crude petroleum	Long ton	214	135	414
Motor spirit	do.	31,259	23,418	24,273
Kerosene	do.	52,143	31,754	34,974
Fuel oil	do.	(b) 8,175	31,580	21,842
Lubricating oil	do.	(a)	4,904	4,417
Paraffin wax, etc.	do.	371	} 453	433
Vaseline	do.	435		
New Caledonia—				
Motor spirit	Long ton	4,992	2,519	1,569
Lubricating oil	do.	827	844	793

(a) Information not available.

(b) Including other heavy oils from October 1.

PHOSPHATES

PRODUCTION OF PHOSPHATE-ROCK

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Seychelles (exports) ..	12,587	15,725	4,730
Union of South Africa ..	—	—	1,876
Canada	1,058	36	—
India	22	303	109
Christmas Island	117,864	119,933	65,849
Australia	70	26	609
Nauru and Ocean Islands..	552,835	443,305	375,610
Total ..	684,000	579,000	449,000
FOREIGN COUNTRIES			
Belgium (c)	39,693	39,742	42,853
Estonia	8,220	4,774	4,508
France	186,054	160,000	(a)
Poland	38,673	11,561	(a)
Russia (estimated) ..	80,000	220,300	325,000
Spain	7,506	5,300	(a)
Algeria	766,078	833,314	555,939
Egypt	211,910	308,527	238,380
Madagascar	13,228	11,100	8,000
Morocco (French zone) ..	1,583,000	1,751,000	925,769
Tunis	2,471,305	3,273,000	2,114,000
Netherlands West Indies (exports)	101,658	86,115	(a)
United States	3,821,840	3,951,353	2,577,535
French Indo-China	19,325	29,800	13,000
China	8,000	8,000	8,000
Japan	15,000	27,275	(a)
Netherlands East Indies..	(a)	1,238	108
Philippine Islands	1,468	(a)	(a)
Angaur Island	62,899	61,105	60,000
Makatea	259,000	173,294	120,000
Total ..	9,700,000	11,000,000	7,300,000
WORLD'S TOTAL	10,400,000	11,600,000	7,700,000

Roumania produced 800 cu. metres and 900 cu. metres of phosphatic guano during 1929 and 1930 respectively.

(a) Information not available.

(c) In addition Phosphatic chalk was produced as follows :—
1929—58,019 tons ; 1930—98,200 tons.

PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (c) ..	597,279	559,789	460,812
Union of South Africa ..	92,500	86,596	68,327
Australia (e)	899,552	932,209	585,000
New Zealand (b)	264,564	219,413	216,049
FOREIGN COUNTRIES			
Austria	54,615	39,228	30,721
Belgium	297,000	362,000	251,000
Czechoslovakia	238,661	180,487	142,835
Denmark	267,000	317,000	233,355
Finland	39,417	32,310	14,892
France	2,230,400	2,095,000	(d)1,500,000
Germany	830,000	851,000	501,000
Greece	86,665	63,944	35,656
Hungary	148,000	80,000	—
Italy	1,279,500	1,366,153	789,392
Latvia	47,032	46,680	36,809
Lithuania	43,000	44,700	42,700
Jugoslavia	87,654	41,949	31,750
Netherlands	623,232	649,111	495,000
Norway	24,700	23,810	(d)5,000
Poland	325,000	271,157	40,169
Portugal	202,000	230,000	177,000
Roumania	15,000	13,051	—
Russia	227,582	349,138	466,797
Spain	957,734	983,879	897,378
Sweden	232,012	254,125	215,300
Switzerland	29,307	28,133	19,237
Algeria	97,195	72,000	} 147,700
Tunis	38,500	44,000	
Morocco	28,400	28,000	
United States	3,836,052	4,110,061	2,450,471
Japan	932,244	942,042	494,647

(a) Information not available.

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

(c) Including Irish Free State.

(d) Estimated.

(e) Years ended June 30.

PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (b) ..	320,000	240,000	165,000
FOREIGN COUNTRIES			
Belgium	1,008,000	(a)	(a)
Czechoslovakia	148,143	124,347	(a)
France—			
Saar	338,553	305,000	(a)
Other districts	1,611,336	(a)	(a)
Germany	1,856,690	1,292,247	(a)
Luxemburg	625,449	523,003	(a)
Sweden	13,663	14,290	(a)

(a) Information not available.

(b) Estimated amount ground and used as fertilizers.

EXPORTS OF PHOSPHATES, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (b)—			
Superphosphates	19,027	17,762	10,500
Basic slag	23,015	11,571	13,455
Seychelles—			
Phosphatic guano	12,587	15,725	4,655
Canada—			
Phosphate-rock	46	—	—
Christmas Island—			
Phosphate-rock	117,864	119,933	65,849
Australia (including re- exports)—			
Superphosphates	17	2	5
New Zealand—			
Superphosphates	899	1,000	864
Nauru and Ocean Islands—			
Phosphate-rock	552,835	443,305	375,610
FOREIGN COUNTRIES			
Austria—			
Superphosphates	169	241	—
Basic slag	95	25	8
Belgium-Luxemburg E.U.—			
Phosphate-rock	108,949	69,190	76,803
Superphosphates	198,432	150,744	230,556
Basic slag	1,205,637	1,026,682	990,167
Czechoslovakia—			
Superphosphates	280	2,569	315
Basic slag	14,971	17,830	13,945
Denmark—			
Superphosphates	3,845	16,560	9,005
Estonia—			
Phosphate-rock	62	4	—

EXPORTS OF PHOSPHATES, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France—			
Phosphate-rock	8,254	9,712	1,580
Superphosphates	217,376	196,803	83,399
Basic slag	940,672	976,879	995,569
Germany—			
Phosphate-rock, etc. ..	7,521	4,344	3,195
Superphosphates	143,425	73,788	50,530
Basic slag	237,057	290,437	170,348
Hungary—			
Superphosphates	3,701	24	12,803
Italy—			
Phosphate-rock	221	24	413
Superphosphates, including bone superphosphates ..	22,287	20,698	15,987
Basic slag	260	2	4
Jugoslavia—			
Superphosphates	8,062	4,519	2,334
Latvia—			
Superphosphates	33,178	4,978	1,218
Basic slag	44	159	3
Netherlands—			
Phosphate-rock	—	295	244
Superphosphates	426,431	427,782	393,147
Basic slag	295	349	849
Norway—			
Superphosphates	506	357	(a)
Poland—			
Superphosphates	24,724	48,424	22,313
Basic slag	381	1	153
Portugal—			
Superphosphates	1,259	2,773	10
Roumania—			
Phosphate-rock	(a)	118	(a)
Superphosphates	(a)	81	(a)
Sweden—			
Phosphate-rock	—	15	—
Superphosphates	55,528	27,590	16,239
Algeria—			
Phosphate-rock	795,621	753,256	451,827
Superphosphates	31,425	14,594	12,906
Egypt—			
Phosphate-rock	213,151	309,208	190,644

(a) Information not available.

(b) Including exports to Irish Free State. See also note (c) p. 286.

EXPORTS OF PHOSPHATES, ETC. (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Madagascar—			
Phosphate-rock	12,303	10,826	8,000
Morocco (French zone)—			
Phosphate-rock	1,552,660	1,774,212	950,444
Superphosphates	23,321	13,201	9,694
Tunis (including re-exports)—			
Phosphate-rock	2,970,057	2,610,920	1,756,284
Superphosphates	6	5	5
Netherlands West Indies—			
Phosphate-rock	101,658	86,115	(a)
United States—			
Phosphate-rock	1,142,746	1,225,722	951,305
Superphosphates	85,118	111,659	81,754
Angaur Island—			
Phosphate-rock	62,899	61,105	(a)
French Indo-China—			
Phosphate-rock	43	12	—
Makatea—			
Phosphate-rock	210,000	169,342	120,000
New Caledonia—			
Phosphate-rock	5,574	—	—

(a) Information not available.

IMPORTS OF PHOSPHATES, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Phosphate-rock	377,532	454,999	257,222
Superphosphates	130,517	101,053	108,791
Basic slag	33,901	22,282	38,662
Irish Free State—			
Phosphate-rock	93,335	94,912	63,625
Superphosphates	44,462	42,496	31,863
Basic slag	34,928	38,771	28,555
Mauritius—			
Superphosphates	825	460	(a)
Phosphatic guano	1,157	1,578	(a)
Nyasaland—			
Phosphates	348	129	247
Southern Rhodesia—			
Superphosphates	6,263	3,568	2,410
Union of South Africa—			
Phosphate-rock	45,701	52,078	56,767
Superphosphates	102,155	95,119	49,813
Basic slag	11,048	10,886	8,695
Canada—			
Phosphate-rock	16,243	42,148	126,538
Superphosphates	87,433	114,188	87,543
Basic slag	12,166	8,532	11,554
British Malaya—			
Phosphate-rock	—	—	30
Ceylon—			
Phosphate-rock	(a)	12,234	4,849
Superphosphates	5,503	5,430	4,267
Basic slag	2,292	1,920	1,480
Australia—			
Phosphate-rock	583,524	512,556	284,713
Superphosphates	430	26	—
New Zealand—			
Phosphate-rock	154,909	119,293	149,837
Superphosphates	900	21	299
Basic slag	94,498	61,795	70,322

(a) Information not available.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Austria—			
Phosphate-rock	24,121	30,667	15,256
Superphosphates	2,355	6,587	1,692
Basic slag	52,238	47,177	41,885
Belgium-Luxemburg E.U.—			
Phosphate-rock	353,420	358,177	238,087
Superphosphates	42,065	19,018	15,629
Basic slag	103,257	105,567	144,591
Czechoslovakia—			
Phosphate-rock	143,815	123,464	67,165
Superphosphates	18,208	4,814	3,431
Basic slag	44,289	19,324	34,886
Denmark—			
Phosphate-rock	156,576	187,526	124,322
Superphosphates	190,351	180,561	109,934
Basic slag	8,845	11,647	5,398
Estonia—			
Phosphate-rock	—	—	231
Superphosphates	28,440	21,248	20,542
Basic slag	952	1,533	492
Finland—			
Phosphate-rock	18,764	17,048	13,286
Superphosphates	9,654	9,483	10,123
Basic slag	25,433	30,993	30,876
France—			
Phosphate-rock	1,592,242	1,530,842	945,858
Superphosphates	11,726	20,329	61,646
Basic slag	3,766	6,449	34,605
Germany—			
Phosphate-rock, etc. ..	895,208	821,234	606,674
Superphosphates	114,506	107,709	132,053
Basic slag	1,098,152	1,140,326	1,086,789
Hungary—			
Phosphate-rock	83,183	32,638	909
Superphosphates	19,463	9,572	2,398
Basic slag	7,167	3,968	1,127
Italy—			
Phosphate-rock	757,348	855,460	442,343
Superphosphates, including bone superphosphates ..	22,054	28,672	30,316
Basic slag	68,590	55,826	38,271

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Jugoslavia—			
Phosphate-rock (estimated)	50,000	47,800	25,545
Superphosphates	487	98	1
Basic slag	2,992	2,732	1,217
Latvia—			
Phosphate-rock	23,095	33,863	17,853
Superphosphates	24,896	31,379	13,064
Basic slag	23,805	21,566	22,988
Lithuania—			
Superphosphates	43,290	57,186	79,930
Netherlands—			
Phosphate-rock	388,686	445,969	291,488
Superphosphates	89,036	44,892	41,128
Basic slag	363,032	377,919	279,935
Norway—			
Phosphate-rock	15,575	13,430	5,230
Superphosphates	33,053	29,965	30,962
Basic slag	10,069	14,972	9,870
Poland—			
Phosphate-rock	220,468	150,496	55,728
Superphosphates	2,828	2,255	368
Basic slag	272,740	131,500	103,482
Portugal—			
Phosphate-rock	118,689	99,581	106,298
Superphosphates	4,134	4,236	531
Roumania—			
Phosphate-rock	(a)	7,058	(a)
Superphosphates	900	411	(a)
Russia—			
Phosphate-rock	59,570	47,021	—
Superphosphate	114,660	62,364	42,872
Basic slag	356	—	—
Spain (total imports)—			
Phosphate-rock	553,237	573,500	439,281
Superphosphates	52,762	27,089	3,512
Basic slag	9,996	7,010	2,935
Sweden—			
Phosphate-rock	135,470	135,333	120,044
Superphosphates	16,749	14,281	19,946
Basic slag	59	377	445

(a) Information not available.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Basic slag	101,763	98,560	125,363
Algeria—			
Superphosphates	22,206	30,923	24,941
Double superphosphates, etc.	39	304	(a)
Basic slag	8,367	3,573	(a)
Egypt—			
Superphosphates	59,576	44,629	31,431
Tunis—			
Phosphate-rock	—	—	12,967
Superphosphates	17,503	6,745	10,739
French West Indies—			
Martinique—			
Superphosphates	1,727	1,215	(a)
Basic slag	124	232	(a)
United States—			
Phosphate-rock	44,899	32,658	13,496
Other crude phosphates	40	60	1,249
Basic slag	3,998	3,913	1,464
Chile—			
Superphosphates	5	3	—
Basic slag	(a)	23,103	91
Uruguay—			
Basic slag	124	(a)	(a)
Formosa—			
Phosphate-rock	2,990	4,500	(a)
Superphosphates	38,350	34,541	(a)
French Indo-China—			
Superphosphates	4,931	11,169	3,741
Japan—			
Phosphate-rock	550,241	561,290	405,509
Netherlands East Indies—			
Superphosphates	8,391	8,499	(a)
Philippine Islands—			
Superphosphates	2,829	743	1,146
Syria and Lebanon—			
Phosphates	632	1,072	113

(a) Information not available.

PLATINUM

PRODUCTION OF PLATINUM METALS

(Troy ounces)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Sierra Leone—			
Crude	26	542	594
Union of South Africa—			
Crude (<i>content</i>)	24,084	49,375	41,220
Concentrates (<i>content</i>)	5,730	5,967	5,943
Osmiridium	5,810	5,732	6,306
Canada—			
Platinum from placers (<i>content</i>)	28	17	20
Recovered from Ontario nickel-copper matte:			
Platinum	12,491	34,007	44,775
Palladium	12,408	29,959	} 46,918
Other metals	4,910	4,133	
New South Wales—			
Platinum from placers	128	155	283
Tasmania—			
Osmiridium from placers	1,360	953	1,280
New Zealand—			
Platinum from placers ..	7	3	1
Papua (years ended June 30)			
Osmiridium from placers	29	11	20
FOREIGN COUNTRIES			
Russia—			
Crude platinum from placers (estimated) ..	100,000	(a)	(a)
Abyssinia—			
Platinum	3,842	3,805	(a)
United States—			
Platinum from placers ..	797	527	885
Domestic crude platinum purchased by refiners	516	797	446
New platinum metals re- covered by refineries (b)	47,977	43,502	36,205
Colombia—			
Platinum from placers ..	(e) 45,576	(e) 42,381	35,793
Japan—			
Platinum from placers ..	147	128	(a)

(a) Information not available.

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

(c) Figures as published by U.S. Bureau of Mines.

EXPORTS OF PLATINUM.*

(Domestic Produce)

(Troy ounces)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Unrefined platinum ..	73	50	47
Refined platinum	24,310	16,064	14,847
Alloys	141	44	425
Sierra Leone—			
Unrefined platinum ..	21	488	590
Union of South Africa—			
Osmiridium	5,695	5,484	5,773
Platinum	20,802	41,132	38,021
Canada—			
Concentrates, etc. (<i>metal content</i>)	2,798	19,835	14,202
Scrap	112	285	81
Australia (including re-exports)—			
Bars, blocks, rods, plates, etc.	609	693	1,652
Osmiridium	239	290	1,335
Papua (years ended June 30)—			
Osmiridium	29	29	47
FOREIGN COUNTRIES			
Austria—			
Ingots, sheets and wire ..	257	32	10
Belgium-Luxemburg E.U.—			
Unwrought platinum ..	(£9,400)	(£2,700)	(£50,100)
France—			
Unwrought platinum and scrap	257	2,797	4,370
Drawn or rolled platinum ..	1,190	16,429	16,850
Germany—			
Platinum metals and alloys	88,308	58,762	84,765
Italy—			
Sheets, bars, dust, scrap, etc.	96	836	1,132
Netherlands—			
Unwrought platinum ..	32	64	418
Poland—			
Ingots, sheets, wire, etc. ..	19	34	31
Russia (years ended Sept. 30)	93,800	(a)	(a)
Sweden—			
Unwrought platinum ..	25	44	71

EXPORTS OF PLATINUM (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Switzerland—			
Unwrought platinum ..	482	96	225
Egypt—			
Platinum	62	(a)	(a)
United States—			
Unwrought platinum ..	2,567	1,037	1,209
Colombia—			
Crude platinum	13,551	} 46,230	(a)
Other platinum	17,520		

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

(a) Information not available.

IMPORTS OF PLATINUM.*

(Less Re-exports)

(Troy ounces)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Unrefined platinum ..	4,458	7,973	16,897
Refined platinum	4,024	8,609	43,171
Alloys	7	9	62
Canada—			
Bars, sheets, wire, etc. ..	(£32,245)	(£17,957)	(£9,686)
Crucibles	(£2,661)	(£2,515)	(£1,522)
Newfoundland (year ended June 30)—			
Platinum	(£510)	(£6)	(£74)
Australia—			
Bars, rods, plates, etc. ..	798	533	186
New Zealand—			
Bars, blocks and rods, etc.	65	103	51
FOREIGN COUNTRIES			
Austria—			
Ingots, sheets and wire ..	3,000	3,000	3,000
Belgium-Luxemburg E.U.—			
Unwrought platinum ..	(£32,200)	(£25,500)	(£20,200)
Bulgaria—			
Ingots, bars, sheet and wire	5	42	2
Denmark—			
Rods, sheets and wire ..	130	64	32
Finland—			
Unwrought platinum ..	35	37	32
France—			
Unwrought platinum and scrap	37,710	35,302	38,900
Drawn or rolled platinum..	2,930	7,652	8,230
Germany—			
Platinum metals and alloys	125,989	109,525	110,422
Italy—			
Bars, dust and scrap ..	1,736	1,543	2,269
Sheets and foil	2,025	3,504	1,915
Wire	675	707	255
Latvia—			
Ingots, sheets and wire ..	7	6	—
Netherlands—			
Unwrought platinum ..	772	2,604	3,279

IMPORTS OF PLATINUM (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Norway—			
Unwrought platinum ..	(£11)	(£110)	(a)
Sheets, rolled and wire ..	52	74	(a)
Poland—			
Ingots, sheets, wire, etc. ..	173	134	588
Roumania—			
Unwrought platinum ..	(a)	65	(a)
Spain (total imports)—			
Unwrought platinum ..	—	267	945
Sweden—			
Unwrought platinum ..	33	64	262
Switzerland—			
Unwrought platinum ..	1,029	643	1,125
Egypt (total imports)—			
Platinum	1,252	714	331
United States—			
Platinum content of ore ..	564	—	1,097
Unwrought platinum ..	114,657	106,155	90,631
Iridium, palladium, etc. ..	39,842	33,066	37,904
Cuba—			
Bars	2,100	(a)	(a)
Brazil (total imports)—			
Ingots, sheets and wire ..	749	298	322
Japan (total imports)—			
Platinum	14,305	15,528	32,229
Turkey—			
Plates, sheets and wire ..	616	253	(a)

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

(a) Information not available.

POTASH MINERALS

PRODUCTION OF POTASH
(Long tons)

Producing Country and Description	1929	1930	1931	K ₂ O Content or Equivalent		
				1929	1930	1931
BRITISH EMPIRE						
Palestine— Carnallite ..	—	—	40,000	—	—	(a)
India— Nitrate (estimated)	4,900	4,600	6,500	2,300	2,200	3,100
Australia— Alunite	38	—	—	3	—	—
Total (estimated)				2,300	2,200	3,100
FOREIGN COUNTRIES						
France— K ₂ O equivalent— Sylvinite, etc. :						
12-16 % ..	258,865	205,722	114,872	} 484,325	498,489	363,544
18-22 % ..	699,859	650,748	447,697			
50 % and over	405,328	467,985	363,544			
Germany— Kainite, sylvinite, etc.	10,824,575	9,935,271	6,881,691	1,540,548	1,406,851	961,232
Carnallite, etc. ..	2,281,331	1,838,053	1,042,548	218,992	176,259	99,390
Italy— Leucite	37,131	40,500	10,000	(a)	(a)	(a)
Alunite	103	812	974	10	80	100
Poland— Kainite	135,681	99,191	58,186	13,568	9,919	5,819
Sylvite	217,283	201,591	199,006	48,900	(a)	(a)
Spain (b)— Crude salts ..	240,096	281,912	246,671	24,010	28,192	24,667
Nitrified earth ..	1,000	900	(a)	(a)	(a)	(a)
United States— Crude salts ..	96,268	94,473	119,571	54,991	54,705	57,036
Korea— Alunite (impure)	10,641	11,523	(a)	(a)	(a)	(a)
Total ..				2,390,000	2,220,000	1,560,000
WORLD'S TOTAL				2,390,000	2,220,000	1,560,000

(a) Information not available.

(b) In addition, 600 cubic metres of alunite were produced in 1929 and also in 1930

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Fertilizer salts	477	531	204
Chromate and bichromate	903	796	886
Nitrate	650	580	717
Other compounds	1,574	1,563	2,085
Canada—			
Fertilizer salts	148	5	7
Aden (including re-exports)—			
Compounds	392	249	267
British India—			
Nitrate	4,585	3,827	6,156
Other compounds	—	50	—
British Malaya (including re-exports)—			
Nitrate	196	217	114
Australia (including re-exports)			
Alunite	38	—	—
FOREIGN COUNTRIES			
Austria—			
Fertilizer salts	44	3	—
Bicarbonate, including sodium bicarbonate	1,473	1,410	1,399
Carbonate	38	24	14
Caustic potash	6	3	3
Chloride	61	17	—
Nitrate	255	226	246
Belgium-Luxemburg E.U.—			
Fertilizer salts	25,767	30,782	217,409
Carbonate	2,756	2,005	2,553
Caustic potash and lyes ..	1,066	1,963	1,811
Chloride	16,831	11,570	135,456
Chlorate	13	7	26
Chromate and bi-chromate including those of sodium	1,975	864	208
Nitrate	245	117	15
Sulphate	3,244	3,641	3,879
Bulgaria—			
Carbonate	155	149	25
Czechoslovakia—			
Fertilizer salts	31	4	1
Carbonate	1,951	3,140	2,954
Chloride	1,065	1,186	1,109

EXPORTS OF POTASH SALTS (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia (Cont.)—			
Manganate and permanganate, including those of sodium	1,028	1,138	1,031
Nitrate	96	104	84
Sulphate	475	804	717
Sulphide, including sodium sulphide	137	322	84
Finland—			
Chlorate	1,021	2,571	2,652
France—			
Kainite	41,178	50	8
Carbonate	560	357	536
Caustic potash	4,032	4,697	4,846
Chlorate	2,405	2,474	2,336
Chloride	781,957	768,625	474,197
Nitrate—			
Natural	520	113	333
Synthetic	6,120	3,988	3,201
Sulphate	2,079	2,699	1,868
Germany—			
Fertilizer salts (9-12% K ₂ O)	428	202	} 532,336
do. (12-17.9% K ₂ O)	191,235	175,095	
do. (18-42% K ₂ O) ..	868,474	800,725	
do. (other)	4,791	3,418	
Carbonate and wool grease ash	19,738	13,388	12,225
Caustic potash	37,506	31,394	31,240
Chlorate	14,749	11,999	12,248
Chloride	212,836	225,011	(c)
Magnesium potassium sulphate	68,979	55,551	(c)
Manganate and permanganate	886	611	931
Nitrate	28,084	25,590	35,675
Sulphate	177,014	194,215	349,666
Hungary—			
Fertilizer salts	223	232	85
Carbonate	1,261	839	1,014
Italy—			
Fertilizer salts	67	17	215
Carbonate	2	7	4
Caustic potash	3	4	4
Chloride	25	34	41

EXPORTS OF POTASH SALTS (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Jugoslavia—			
Carbonate of potash ..	140	29	45
Netherlands—			
Fertilizer salts	61	291	121
Caustic potash	777	632	627
Chloride	353	428	319
Nitrate	1,207	976	295
Sulphate	89	60	194
Poland—			
Fertilizer salts	12,976	15,136	67,791
Carbonate	2	23	—
Caustic potash	485	221	116
Chlorate	335	108	184
Nitrate	61	—	1
Roumania—			
Chlorate	(a)	40	(a)
Russia—			
Potash	3,540	5,007	509
Spain (including re-exports)—			
Fertilizer salts	24,388	22,180	25,244
Sweden—			
Chlorate	(b) 6,733	3,479	4,138
Caustic potash	756	584	521
Switzerland—			
Caustic potash, including caustic soda	164	64	3
Nitrate (crude)	—	500	15,273
Nitrate, including nitrate of soda (pure)	3,229	6,936	3,677
United States—			
Fertilizer salts	13,868	15,216	23,982
Compounds	1,360	1,121	1,035
Chile—			
Potassium compounds ..	204	15	2
Japan—			
Chlorate	4	3	11
Iodide	16	15	51

(a) Information not available.

(b) Including "Sodium chlorate."

(c) Included with "Sulphate."

IMPORTS OF POTASH SALTS.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Fertilizer salts	135,612	112,780	101,166
Carbonate	2,506	2,745	2,993
Caustic potash and lyes	5,636	6,146	6,025
Chlorate	1,171	1,116	1,224
Chloride	35,190	27,388	37,155
Nitrate	6,022	5,057	4,294
Sulphate	20,820	14,617	24,722
Other compounds	2,063	1,678	1,433
Irish Free State—			
Kainite	13,359	13,031	12,219
Other compounds	269	214	245
Mauritius—			
Nitrate	3,225	4,918	(a)
Sulphate	60	76	(a)
Northern Rhodesia—			
Compounds	17	11	63
Southern Rhodesia—			
Compounds	50	75	18
Union of South Africa—			
Fertilizer salts	5,890	4,969	2,756
Nitrate	117	125	137
Other compounds	763	853	756
Canada—			
Fertilizer salts	15,718	32,991	27,792
Nitrate	632	422	935
Crude sulphate	807	1,847	3,565
Other compounds	2,131	1,798	1,953
Aden (total imports)—			
Compounds	231	252	209
British India (total imports)—			
Bichromate	268	198	276
Chlorate	2,106	2,124	965
Chloride	7,484	5,270	4,550
Other compounds	522	569	293
British Malaya (total im- ports)—			
Nitrate	234	290	139

IMPORTS OF POTASH SALTS (*Cont.*)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (<i>Cont.</i>)			
Ceylon—			
Kainite	1,480	3,587	1,334
Chloride	7,292	5,066	4,894
Nitrate refuse	3,895	2,820	2,942
Sulphate	810	860	734
Australia—			
Cyanides, including sodium cyanide	746	612	840
Nitrate	713	1,042	480
Other compounds	1,138	1,353	1,198
New Zealand—			
Kainite	901	1,059	397
Other fertilizer salts	7,024	6,280	3,506
Chlorate	82	81	50
Nitrate	86	64	77
Sulphate	1,207	1,296	772
Other compounds (<i>£ New Zealand</i>)	<i>£7,303</i>	<i>(£12,574)</i>	<i>(£7,525)</i>
FOREIGN COUNTRIES			
Austria—			
Fertilizer salts	18,924	14,628	15,151
Carbonate	877	576	691
Caustic potash	450	481	530
Chloride	924	619	778
Nitrate	19	10	26
Sulphate	253	136	114
Belgium-Luxemburg E.U.—			
Fertilizer salts	253,991	135,695	306,645
Carbonate	1,337	976	1,633
Caustic potash and lyes	9,084	8,743	10,566
Chlorate	781	911	799
Chloride	60,619	36,933	156,569
Chromate and bichromate, including those of sodium	185	184	450
Manganate and permanganate	197	242	190
Nitrate	1,196	1,695	2,304
Sulphate	3,385	2,447	1,983
Bulgaria—			
Carbonate	10	4	2
Caustic potash	18	22	15
Chromates	22	24	29
Nitrate	(a)	153	108
Sulphate and chloride	45	30	37

(a) Information not available.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Czechoslovakia—			
Kainite	38,782	32,160	26,005
Fertilizer salts (18–24% K ₂ O)	2,071	1,417	1,495
do. do. (38–44% K ₂ O)	67,967	51,342	39,484
do. do. (other) ..	222	123	44
Bicarbonate, including sodium bicarbonate ..	674	828	869
Chloride	5,046	5,821	4,594
Nitrate	55	52	46
Denmark—			
Kainite	1,850	3,123	347
Fertilizer salts			
(20% K ₂ O or less)	235	515	68
do. (37%–40% K ₂ O)	75,269	74,490	42,944
do. (other)	—	—	509
Carbonate	722	690	796
Caustic potash	3,638	3,230	4,118
Chlorate	118	124	137
Chromate	12	28	16
Nitrate	1,273	1,491	1,678
Estonia—			
Fertilizer salts	4,972	5,027	3,259
Carbonate	15	33	12
Chlorate	117	87	57
Nitrate	12	16	21
Finland—			
Fertilizer salts	22,027	19,595	16,643
Carbonate	244	281	56
Caustic potash	53	26	39
Nitrate	37	35	50
Chlorate	314	11	1
Chloride	2,182	2,343	874
Chromates	56	69	75
France—			
Carbonate	2,026	1,607	1,151
Caustic potash	201	391	277
Chlorate	1	36	17
Chromate and bichromate..	621	565	606
Chloride	286	1,367	4,552
Nitrate	277	210	179
Sulphate	2,915	2,325	4,113

IMPORTS OF POTASH SALTS (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Germany—			
Fertilizer salts	—	39	19
Carbonate and wool grease ash	902	938	942
Caustic potash	131	423	126
Chlorate	15	15	15
Nitrate	152	66	12
Sulphate	123	210	7
Greece—			
Carbonate	310	348	359
Caustic potash	12	32	11
Nitrate	158	155	132
Hungary—			
Fertilizer salts	3,677	2,323	424
Carbonate	24	31	16
Chlorate	255	236	240
Italy—			
Fertilizer salts	55,572	39,356	16,517
Carbonate	1,365	1,272	948
Caustic potash	2,788	3,196	2,533
Chlorate	274	123	89
Nitrate	1,771	1,720	2,496
Jugoslavia—			
Fertilizer salts	3,051	2,531	1,537
Carbonate	182	114	55
Caustic potash	81	78	27
Nitrate	37	28	27
Latvia—			
Fertilizer salts	17,386	15,641	11,649
Carbonate	140	256	77
Caustic potash	71	57	78
Chlorate	104	102	90
Nitrate	30	26	37
Lithuania—			
Salts	1,271	6,959	4,379
Netherlands—			
Kainite	35,729	33,199	19,219
Fertilizer salts (20% K_2O)	217,352	236,086	91,524
do. do. (40% K_2O)	85,571	79,347	25,542
Caustic potash	412	670	570
Chloride	4,783	6,212	2,799
Nitrate	965	1,503	1,435
Sulphate	3,034	2,700	314

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Norway—			
Fertilizer salts	22,321	24,647	19,135
Carbonate	510	531	477
Caustic potash and lyes ..	3,899	1,706	1,464
Chloride	165	141	(a)
Nitrate	147	153	(a)
Poland—			
Fertilizer salts	108,476	21,893	3,745
Carbonate	497	585	171
Caustic potash	283	146	109
Chlorate	40	59	114
Nitrate	491	412	474
Portugal—			
Chlorate	126	141	145
Chloride	870	1,314	803
Nitrate	403	364	229
Sulphate	403	1,255	935
Roumania—			
Fertilizer salts	(a)	432	(a)
Carbonate and bicarbonate	(a)	119	(a)
Caustic potash	(a)	52	(a)
Chlorate	(a)	13	(a)
Russia—			
Fertilizer salts	6,465	494	13
Carbonate	77	105	—
Nitrate	2,168	3,054	2,170
Spain (total imports)—			
Fertilizer salts	18,869	13,537	8,180
Carbonate	306	341	341
Caustic potash and soda ..	334	431	359
Chlorate	13	2	2
Permanganate	11	15	24
Sweden—			
Fertilizer salts (20% K ₂ O)	24,934	20,744	22,921
do. (40% K ₂ O)	67,773	64,760	42,758
do. (other) ..		3,534	6,291
Carbonate	1,654	1,508	1,738
Caustic potash	2,531	2,359	3,259
Chlorate	(a)	21	10
Chloride	8,799	6,678	7,923
Nitrate	494	537	543
Sulphate	63	(a)	(a)

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Switzerland—			
Fertilizer salts	22,432	26,557	22,159
Carbonate	439	446	501
Caustic potash—			
Liquid, including caustic soda.. ..	355	286	197
Solid	1,450	1,253	1,275
Chloride	2,172	2,947	1,628
Nitrate, crude	1,888	1,781	1,089
Nitrate purified, including sodium nitrate	462	429	376
Algeria—			
Fertilizer salts	11,062	7,521	} (a)
Carbonate	19	18	
Caustic potash	20	25	
Chlorate	58	45	
Nitrate	114	97	
Sulphate	4,192	1,771	
Egypt—			
Bichromate, including sodium bichromate ..	388	283	307
Morocco (French zone)—			
Fertilizer salts	1,879	2,855	3,401
Carbonate	211	369	203
Tunis—			
Carbonate	9	14	9
Chloride	228	—	1,245
Nitrate	45	118	6
Sulphate	326	30	756
French West Indies—			
Martinique—			
Nitrate	391	69	(a)
Sulphate	833	—	(a)
Mexico—			
Nitrate, including nitrate of soda	6,252	6,450	(a)

(a) Information not available.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
United States—			
Kainite (total imports) ..	75,930	112,013	55,329
Carbonate, including crude	10,087	8,134	6,071
Caustic potash (total im- ports)	6,986	4,162	3,859
Chlorate and perchlorate ..	6,230	6,744	5,543
Chloride	229,980	269,005	179,675
Cyanide (total imports) ..	61	41	42
Nitrate (total imports) ..	12,800	12,799	14,520
Sulphate	79,480	86,254	56,842
Argentina—			
Bichromate	238	172	98
Carbonate	85	31	53
Caustic potash	17	26	67
Chlorate	28	32	135
Cyanide	52	44	37
Nitrate	74	171	145
Sulphate	4	10	1
Brazil (total imports)—			
Caustic potash	13	39	16
Nitrate	5,105	1,362	1,851
Potash and soda ash ..	9,417	9,556	7,973
Chile—			
Bichromate	78	47	36
Carbonate	(a)	29	8
Caustic potash	(a)	50	15
Chlorate, etc.	58	119	96
Nitrate, etc... .. .	13	14	1
Colombia—			
Bichromate of potash ..	3	1	} (a)
Caustic potash	7	13	
Chlorate	112	69	
Nitrates of potash and soda	35	10	
Ecuador—			
Bichromate	3	1	2
Caustic potash	50	18	6
Chlorate	12	10	11
Peru—			
Caustic potash	145	84	71
Nitrate, etc.	1,276	401	558

IMPORTS OF POTASH (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Venezuela—			
Carbonate	22	(a)	(a)
Nitrate	63	(a)	(a)
China—			
Nitrate	1,478	1,357	1,652
Formosa—			
Chloride	542	486	(a)
Sulphate	831	2,403	(a)
French Indo-China—			
Carbonate	241	243	150
Chlorate	167	395	341
Chloride	668	1,039	120
Nitrate	138	160	59
Sulphate	649	397	173
Japan (total imports)—			
Bichromate	237	329	170
Chlorate	3,098	2,145	2,278
Chloride	27,155	23,534	28,020
Cyanide, including sodium cyanide	533	644	583
Sulphate	53,347	66,745	37,902
Netherlands East Indies—			
Fertilizer salts	1,547	2,459	(a)
Caustic potash	50	89	(a)
Nitrate	227	182	(a)
Philippine Islands—			
Chlorate	29	11	26
Sulphate	77	302	345
Syria and Lebanon—			
Caustic potash	142	45	3
Chloride	14	10	—
Turkey—			
Carbonate	465	113	649
Caustic potash	98	497	5

(a) Information not available.

PYRITES

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

Producing Country.	1929	1930	1931	Estimated Sulphur Content.		
				1929	1930	1931
BRITISH EMPIRE						
United Kingdom	4,371	5,497	1,979	(a)	(a)	(a)
Union of South Africa	4,051	3,547	3,708	(a)	(a)	(a)
Canada (c)	68,980	(a)	(a)	38,197	33,688	44,738
Cyprus	292,430	257,028	193,845	146,215	128,514	96,923
India	294	—	—	(a)	—	—
Australia	—	—	507	—	—	(a)
Total ..	370,000	(e) 270,000	(e) 200,000			
FOREIGN COUNTRIES						
Czechoslovakia ..	22,642	23,253	20,367	8,943	9,185	8,045
France	(a) 198,996	194,536	189,686	(a) 90,023	89,900	87,200
Germany	346,351	285,165	220,459	147,614	122,163	95,025
Greece	131,292	175,000	(a)	62,941	84,054	(a)
Hungary	1,007	1,052	(a)	(a)	(a)	(a)
Italy	654,047	705,942	635,560	301,017	309,838	278,947
Jugoslavia	59,203	49,550	29,064	(a)	(a)	(a)
Norway	727,916	719,407	354,266	319,144	318,965	157,544
Poland	9,261	10,872	3,534	4,000	4,700	1,500
Portugal	378,279	393,902	282,671	190,000	200,000	140,000
Roumania	23,474	23,881	(a)	10,000	10,000	(a)
Russia (years ended Sept. 30)	(a)	237,900	(a)	(a)	(a)	(a)
Spain	3,806,172	3,362,507	2,754,791	1,786,000	1,450,000	1,240,000
Sweden	70,917	59,486	56,699	31,575	27,295	25,500
Algeria	16,539	16,365	20,988	7,940	7,364	9,100
United States (b) ..	333,465	347,512	330,848	120,371	124,226	119,000
Japan	608,971	552,532	(a)	(a)	(a)	(a)
Total ..	7,400,000	7,100,000	(a)			
WORLD'S TOTAL	7,800,000	7,400,000	(a)			
		(e)				

(a) Information not available.

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

(c) Includes estimated sulphur content of smelter gases used for acid making.

(d) Includes 3,429 tons of arsenical pyrites containing 1,347 tons of sulphur.

(e) Excluding production of Canada.

EXPORTS OF PYRITES
(Domestic Produce)
(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom— Iron-pyrites and cupreous pyrites	10,058	28,533	18,365
Canada— Pyrites (<i>S content</i>)	28,560	23,743	23,762
Cyprus— Cupreous pyrites	291,100	238,488	199,786
FOREIGN COUNTRIES			
Austria— Iron-pyrites	117	—	—
Czechoslovakia— Pyrites	384	159	15
Denmark— Pyrites	—	—	369
France— Iron-pyrites.. .. .	2,234	462	2,996
Germany— Pyrites, etc... .. .	46,042	42,218	42,044
Greece— Iron-pyrites	95,380	109,222	128,808
Italy— Iron-pyrites	226,975	241,596	245,392
Jugoslavia	57,688	30,380	19,847
Netherlands— Iron-pyrites	6,754	3,900	5,955
Norway— Iron-pyrites.. .. .	201,020	208,722	168,470
Cupreous pyrites	445,143	420,718	217,098

EXPORTS OF PYRITES (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Poland— Iron-pyrites.. .. .	8,656	4,133	59
Portugal— Copper ore and cupreous pyrites	284,852	352,687	235,104
Roumania	(a)	908	(a)
Spain (including re-exports)— Iron-pyrites.. .. .	1,781,281	1,949,050	1,374,735
Cupreous pyrites, containing not more than 2½ % Cu ..	895,721	755,358	502,912
Copper ore and cupreous pyrites, containing more than 2½ % Cu	1,773	2,700	—
Sweden	—	—	2,520

(a) Information not available.

IMPORTS OF PYRITES

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Iron and cupreous pyrites	334,675	330,662	268,280
Irish Free State	35,909	32,903	32,113
Union of South Africa—			
Iron-pyrites.. .. .	11,656	6,322	7,341
British India (total imports)—			
Cupreous pyrites	5,597	2	—
FOREIGN COUNTRIES			
Austria—			
Iron-pyrites.. .. .	70,838	60,381	48,657
Czechoslovakia	218,338	205,875	125,986
Denmark	70,737	105,995	56,337
France—			
Iron-pyrites.. .. .	907,998	833,265	575,199
Germany—			
Pyrites, etc.	1,151,841	944,434	694,883
Hungary	69,500	33,252	6,618
Italy—			
Iron-pyrites	182,299	206,546	102,793
Jugoslavia	26,216	15,903	7,285
Latvia	8,786	14,925	10,408
Netherlands—			
Iron-pyrites.. .. .	153,787	263,945	317,215
Norway	—	30	(a)
Poland—			
Iron-pyrites.. .. .	79,676	56,630	16,988
Roumania	(a)	2,995	(a)
Sweden—			
Pyrites	170,488	183,785	133,907
Morocco (French zone)—			
Iron pyrites	(a)	6,259	6,075
United States	514,336	368,114	352,066

(a) Information not available.

QUICKSILVER

PRODUCTION OF QUICKSILVER

(Lb. avdp.)

Producing Country	1929	1930	1931
BRITISH EMPIRE.			
New Zealand	—	4,040	34,160
FOREIGN COUNTRIES			
Austria	10,041	6,217	998
Czechoslovakia	144,282	156,570	168,927
Italy	4,405,431	4,261,281	2,861,600
Russia (years ended Sept. 30)	286,600	250,000	(a)
Spain	5,457,752	1,460,803	1,484,000
Algeria	9,259	24,700	(a)
Mexico	182,181	366,499	554,183
United States	1,799,872	1,638,028	1,881,000
Chile	—	152	(a)
China	45,000	56,000	49,000
Japan	3,185	9,208	(a)
Korea	718	1,946	(a)
Turkey	17,925	40,875	17,925
WORLD'S TOTAL	12,400,000	8,300,000	7,300,000

(a) Information not available.

EXPORTS OF QUICKSILVER, ETC.
(Domestic Produce)
(Lb. avdp.)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom— Quicksilver	20,169	10,027	2,508
British Malaya (including re- exports)— Quicksilver	377	291	243
Australia (including re-exports) Quicksilver	300	300	100
New Zealand— Quicksilver	—	4,050	33,916
FOREIGN COUNTRIES			
Austria— Quicksilver	5,700	6,200	5,100
Belgium-Luxemburg E. U.— Quicksilver	54,700	3,700	29,800
Sulphide of mercury	10,500	900	—
Czechoslovakia— Quicksilver	32,800	57,100	83,800
France— Quicksilver	4,400	6,200	5,100
Mercury salts	12,300	9,000	6,800
Germany— Cinnabar	77,500	80,200	57,100
Quicksilver and amalgam	240,800	94,500	45,900
Mercury salts	356,000	151,700	112,000
Italy— Quicksilver	1,226,400	1,532,200	1,081,800
Chloride of mercury	212,300	259,500	144,800
Sulphide of mercury	83,300	20,100	28,200
Other mercury salts	23,200	28,000	15,700

EXPORTS OF QUICKSILVER, ETC.
(*Domestic Produce*)
(Lb. avdp.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Netherlands— Quicksilver and amalgam ..	7,465	11,292	12,044
Poland— Quicksilver	200	700	—
Mercury salts	—	400	40
Spain (including re-exports)— Quicksilver	1,916,900	1,339,100	1,033,300
Mercury salts	2,420	29,381	5,710
Switzerland— Quicksilver	4,202	633	32,218
Algeria— Quicksilver	900	23,400	(<i>a</i>)
Bolivia— Quicksilver	3,830	74,834	(<i>a</i>)
Mexico— Quicksilver	182,181	361,840	551,784
China— Quicksilver	—	—	250,500
Turkey— Quicksilver	13,100	40,669	19,004

(*a*) Information not available.

IMPORTS OF QUICKSILVER, ETC.

(Less Re-exports)

(Lb. avdp.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Quicksilver	306,534	944,194	835,753
Southern Rhodesia—			
Quicksilver	12,333	11,826	17,182
Union of South Africa—			
Quicksilver	76,745	55,100	56,706
Canada—			
Cinnabar	—	33	10
Quicksilver	346,701	105,755	21,159
Mercury salts	(£3,050)	(£2,417)	(£2,593)
British India (total imports)—			
Quicksilver	204,936	186,642	185,667
British Malaya (total imports)—			
Quicksilver	5,116	5,839	3,685
Australia—			
Quicksilver	26,100	20,400	20,800
Mercury salts	800	1,200	100
New Zealand—			
Quicksilver	2,212	2,965	1,722
FOREIGN COUNTRIES			
Austria—			
Quicksilver	45,900	29,800	25,100
Belgium-Luxemburg E.U.—			
Quicksilver	277,500	149,500	160,500
Sulphide of mercury ..	7,100	4,400	7,500
Bulgaria—			
Quicksilver	1,858	3,197	1,984
Czechoslovakia—			
Quicksilver	112,700	22,300	13,200
Denmark—			
Quicksilver	4,630	2,866	3,300
Estonia—			
Quicksilver	900	1,041	655
Mercury salts	977	1,016	1,139
Finland—			
Cinnabar	13,028	3,977	4,467
Quicksilver and amalgam ..	3,014	3,926	3,754

IMPORTS OF QUICKSILVER, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
France—			
Quicksilver	400,800	387,400	397,300
Mercury salts	99,400	89,500	73,600
Germany—			
Cinnabar	1,800	1,300	900
Quicksilver and amalgam ..	767,000	769,400	744,900
Mercury salts	116,400	192,500	183,600
Greece—			
Quicksilver	5,615	5,818	3,080
Hungary—			
Mercury sulphide	3,500	1,100	900
Italy—			
Quicksilver	900	200	1,100
Mercury salts	5,500	5,100	1,500
Jugoslavia—			
Quicksilver and amalgam ..	6,673	15,783	5,919
Mercury salts	15,313	10,064	9,899
Latvia—			
Quicksilver	2,000	1,650	873
Mercury salts	1,300	2,750	1,929
Lithuania—			
Quicksilver	900	1,100	—
Netherlands—			
Quicksilver and amalgam ..	34,066	30,128	28,376
Poland—			
Cinnabar	5,300	5,500	1,500
Quicksilver	46,300	48,300	37,900
Mercury salts	21,600	17,400	19,000
Portugal—			
Quicksilver	16,600	13,900	9,072
Mercury salts	4,700	4,700	11,627
Roumania—			
Quicksilver	(a)	15,800	(a)
Mercury salts	(a)	17,500	(a)
Russia—			
Quicksilver	37,000	55,000	77,000
Spain (total imports)—			
Quicksilver	220	220	220
Mercury salts	2,114	2,867	1,870
Sweden—			
Quicksilver	54,300	43,848	19,870
Switzerland—			
Quicksilver	77,720	90,226	18,279
Algeria—			
Quicksilver	1,100	700	(a)

IMPORTS OF QUICKSILVER, ETC. (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Egypt—			
Quicksilver	1,021	2,599	2,725
Morocco (French zone)—			
Quicksilver	2,400	110	2,793
Costa Rica (total imports)—			
Quicksilver	1,537	(a)	(a)
Cuba—			
Quicksilver	2,830	(a)	(a)
Panama—			
Quicksilver	—	231	(a)
United States—			
Quicksilver	1,086,221	223,686	27,054
Argentina—			
Quicksilver	20,082	12,985	14,099
Mercury salts	12,390	9,806	10,734
Brazil (total imports)—			
Quicksilver	9,000	9,385	6,684
Chile—			
Quicksilver	3,600	4,447	2,000
Mercury salts	3,300	3,968	1,122
Colombia—			
Quicksilver	6,135	4,911	(a)
Mercury salts	9,341	8,617	(a)
Ecuador—			
Quicksilver	4,744	374	465
Mercury salts	201	1,729	787
Peru—			
Quicksilver	4,356	3,285	5,220
Mercury salts	1,129	1,138	787
Uruguay—			
Quicksilver	22,011	(a)	(a)
China—			
Vermillion (b)	1,041,900	1,083,400	1,629,700
French Indo-China—			
Cinnabar	26,500	13,200	3,600
Quicksilver	2,200	4,400	2,200
Vermillion	8,800	6,600	6,600
Formosa—			
Vermillion and cinnabar	11,764	9,676	(a)
Quicksilver	3,123	3,995	(a)
Japan (total imports)—			
Quicksilver	712,600	544,900	580,800

(a) Information not available.

(b) Chiefly artificial but including small quantities of cinnabar and vermillion.

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

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Korea—			
Quicksilver	26,990	29,812	34,635
Netherlands East Indies—			
Quicksilver	12,842	12,829	(a)
Syria and Lebanon—			
Quicksilver	3,234	381	2,150
Turkey—			
Quicksilver	4,000	712	2,083
Mercury salts	25,800	14,290	2,610

(a) Information not available.

SALT

PRODUCTION OF SALT

(Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Rock-salt	36,159	25,023	21,553
Brine-salt	1,938,011	2,042,541	1,876,011
Mauritius (estimated)—			
Sea-salt	1,500	1,500	1,500
Nigeria (estimated)	400	400	400
Somaliland (exports)—			
Sea-salt	3,100	1,032	(a)
South West Africa	334	503	1,076
Anglo-Egyptian Sudan	14,715	14,082	(a)
Tanganyika Territory	7,270	6,559	6,617
Uganda	2,244	1,751	1,878
Union of South Africa (years ended June 30)	87,453	87,928	(a)
Canada	294,789	241,493	228,224
British West Indies (exports)—			
Sea-salt—			
Bahamas	786	3,143	12,250
Grenada	69	153	129
Leeward Islands	1,289	1,517	2,316
Turks and Caicos Islands	61,153	41,541	26,929
Ceylon	25,080	9,533	(a)
Cyprus (estimated)	3,000	3,000	3,000
India (including Aden)—			
Rock-salt	178,302	175,467	} 1,839,000
Salt	1,530,798	1,535,881	
Palestine—			
Rock-salt	2,468	1,373	1,239
Sea-salt	5,150	6,006	(a)
Australia—			
Victoria (estimated)	50,000	50,000	50,000
Western Australia	(b) 8,000	(b) 8,000	3,938
South Australia	76,457	58,766	68,666
Total	4,300,000	4,300,000	4,300,000

(a) Information not available.

(b) Estimated.

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Austria—			
Rock-salt	2,992	1,046	848
Brine-salt	172,671	154,086	120,675
Bulgaria—			
Rock-salt	3,431	1,677	(a)
Other salt	24,600	(a)	(a)
Czechoslovakia—			
Rock-salt	158,387	169,548	182,023
Brine-salt	5,346	5,339	5,152
France—			
Rock-salt and brine-salt ..	1,718,499	1,675,150	1,381,279
Sea-salt	436,678	292,000	(a)
Germany—			
Rock-salt	2,501,350	2,416,822	2,053,925
Brine-salt	493,111	493,341	483,221
Greece—			
Sea-salt (estimated) (e) ..	100,000	100,000	100,000
Italy—			
Rock-salt	62,043	71,939	} 322,007
Brine-salt	280,326	254,819	
Sea-salt	553,701	509,578	
Jugoslavia (f)	43,860	53,773	51,850
Netherlands (sales)	44,205	49,020	55,254
Poland	560,494	525,833	552,000
Portugal—			
Rock-salt	28	—	24
Roumania—			
Rock-salt	313,767	299,963	(a)
Sea-salt	2,655	2,121	(a)
Russia	2,822,700	3,154,300	2,804,200
Spain—			
Rock-salt	162,234	161,933	(a)
Brine-salt and sea-salt ..	900,193	859,178	(a)
Switzerland	85,110	79,554	83,674
Algeria—			
Rock-salt and sea-salt ..	15,063	57,520	(a)
Abyssinia (estimated)	10,000	(a)	(a)
Angola (estimated)	10,000	10,000	10,000
Belgian Congo (estimated) ..	80	80	80
Canary Islands (estimated) ..	2,000	2,000	2,000
Cape Verde Islands	10,324	12,200	10,900
Egypt (exports)	146,669	152,406	101,248
French Morocco	8,000	8,000	8,000
French Somaliland	38,356	25,000	(a)
French West Africa (Mauri- tania)	4,000	2,200	(a)

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Italian East Africa (estimated)	100,000	100,000	100,000
Tripoli (estimated)	20,000	20,000	20,000
Tunis	118,300	118,400	(a)
Mexico (estimated)	66,000	66,000	66,000
Netherlands West Indies (exports)	4,603	4,744	(a)
Panama (estimated)			
Crude salt	50,000	50,000	50,000
United States—			
Rock-salt	1,886,616	1,765,509	1,655,509
Brine-salt	3,468,000	3,320,054	2,946,616
Evaporated salt	2,273,563	2,105,902	1,967,580
Argentina	194,675	142,309	(a)
Chile	36,831	38,997	(a)
Colombia (estimated)	29,000	29,000	29,000
Ecuador—			
Rock-salt	68	124	(a)
Other salt	17,103	24,047	(a)
Peru	30,000	30,000	(a)
Venezuela	25,041	20,395	(a)
China, including Kwantung			
Peninsula	2,408,019	2,562,500	2,235,000
Formosa	161,761	160,639	(a)
French Indo-China	251,100	(a)	(a)
Japan (c)	633,977	618,753	(a)
Korea	136,000	(a)	(a)
Netherlands East Indies—			
Government production ..	479,681	308,626	(a)
Native production	26,769	30,786	(a)
Philippine Islands—			
Brine-salt and sea-salt ..	46,136	39,931	(a)
Portuguese India (estimated)	12,000	12,000	12,000
Siam (d)—			
Brine-salt	22,529	22,601	} 193,298
Sea-salt	151,744	155,543	
Turkey (Anatolia) (estimated)	100,000	100,000	100,000
Total	25,000,000	24,000,000	23,000,000
WORLD'S TOTAL	29,000,000	28,000,000	27,000,000

(a) Information not available.

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

(d) Years ended March 31 following that stated.

(e) Estimated on previous years figures.

(f) Excluding sea-salt.

EXPORTS OF SALT

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Refined salt.. .. .	5,729	5,186	5,095
Other salt	346,147	303,079	257,194
Anglo-Egyptian Sudan	4,512	3,043	663
Gold Coast	185	114	—
Northern Rhodesia—			
Common salt and refined salt	30	9	—
Southern Rhodesia—			
Common salt and refined salt	611	1,077	569
Somaliland—			
Sea-salt	3,100	1,032	115
Tanganyika Territory.. .. .	2,999	3,046	2,963
Union of South Africa	8,012	7,148	8,096
Canada	8,357	7,820	5,470
British West Indies—			
Bahamas (c)	786	3,143	12,250
Grenada	69	153	129
Leeward Islands (b)	1,289	1,517	2,316
Turks and Caicos Islands (c)	61,153	41,541	26,929
Aden (including re-exports).. .. .	220,790	206,215	272,990
British India (including re-exports)	71,899	70,454	68,148
British Malaya (including re-exports)	12,826	15,333	11,951
Australia (including re-exports)—			
Rock-salt	89	46	18
Refined salt (£ Australian)	(£607)	(£564)	(£470)
Other salt	7,991	6,139	5,703
FOREIGN COUNTRIES			
Austria.. .. .	13	159	622
Belgium-Luxemburg E.U.—			
Common salt	477	340	2,400
Refined salt.. .. .	457	410	388
Czechoslovakia—			
Refined salt, etc.	8	18	7

EXPORTS OF SALT (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Denmark—			
Refined salt, etc.	13	15	19
France	160,413	146,097	128,201
Germany—			
Rock-salt, sea-salt, etc. ..	954,499	973,800	807,094
Italy—			
Rock-salt and sea-salt ..	120,430	85,980	51,337
Jugoslavia—			
Common salt and sea-salt..	11	—	—
Latvia—			
Rock-salt	71	108	224
Common salt	1,621	464	136
Netherlands—			
Rock-salt	—	—	2
Sea-salt	16	24	4
Refined salt and waste ..	17,858	20,224	21,164
Norway	10	16	(a)
Poland—			
Refined salt	35,206	26,084	59,605
Other salt	2,892	6,432	6,079
Portugal	15,075	26,806	16,741
Roumania	(a)	39,203	(a)
Russia	66,853	73,735	63,284
Spain (including re-exports)—			
Common salt	533,832	588,719	449,884
Sweden—			
Sea-salt	781	1,931	1,494
Refined salt	233		
Algeria	9,623	8,401	38,437
Angola.. .. .	(a)	(a)	(a)
Belgian Congo.. .. .	619	448	73
Cape Verde Islands	10,318	12,286	10,920
Dahomey—			
Rock-salt	149	40	—
Egypt—			
Common salt	146,669	152,406	101,248
French Guinea.. .. .	41	36	8

(a) Information not available.

(b) Including inter-presidency trade.

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

EXPORTS OF SALT (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
French Somaliland	38,356	24,968	(a)
Madagascar—			
Sea-salt	864	1,186	494
Morocco (French zone) ..	—	962	454
Mozambique	1,773	1,251	1,853
Senegal—			
Rock-salt	126	267	3
Tunis (including re-exports)—			
Rock-salt and sea-salt ..	50,492	72,451	75,287
Mexico	7	298	76
United States	97,519	62,927	88,134
Netherlands West Indies ..	4,603	4,744	(a)
Argentina—			
Common salt	460	160	178
Refined salt	23	115	—
Brazil	20	15	—
Chile—			
Common salt	87	47	16
Refined salt	9	53	4
Ecuador	307	630	—
Peru	3	—	—
Venezuela—			
Sea-salt	1,160	(a)	(a)
China—			
Common salt	337,546	290,248	332,690
Refined salt	50,178	46,252	55,917
Formosa	72,507	73,500	(a)
French Indo-China—			
Rock-salt and sea-salt ..	25,230	41,814	32,361
Japan	15	46	448
Persia (including re-exports)			
(d)—			
Common salt	991	846	645
Refined salt	22	14	18
Philippine Islands	31	29	45
Siam (including re-exports) ..	46,991	49,547	69,385
Turkey	13,430	(a)	(a)

(a) Information not available.

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

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Refined salt.. ..	1,087	1,398	1,208
Other salt	92,210	92,211	68,888
Irish Free State—			
Refined salt.. ..	2,427	2,249	2,507
Other salt	27,100	26,561	27,545
Anglo-Egyptian Sudan ..	196	261	318
Gambia.. ..	1,439	1,158	1,704
Gold Coast—			
Refined salt.. ..	19	18	17
Other salt	6,931	7,319	6,475
Kenya and Uganda	9,100	8,670	9,509
Mauritius	1,602	485	(a)
Nigeria	52,436	58,447	48,466
Nyasaland	3,471	2,764	2,925
Northern Rhodesia—			
Common salt and refined salt	1,775	1,394	1,722
Southern Rhodesia—			
Common salt and refined salt	5,590	3,982	5,120
Seychelles	167	69	143
Sierra Leone—			
Refined salt.. ..	2	1	1
Other salt	5,418	4,949	4,725
South West Africa	1,472	1,617	1,367
Tanganyika Territory ..	1,777	1,762	992
Union of South Africa—			
Rock-salt	2,687	2,289	1,872
Common salt and refined salt	2,189	2,961	1,876
Zanzibar	1,205	753	905

(a) Information not available.

IMPORTS OF SALT (*Cont.*)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (<i>Cont.</i>)			
Canada (total imports)—			
Salt for use of fisheries	73,687	50,120	50,148
Refined salt	218	305	263
Other salt	83,742	64,449	66,460
Newfoundland (total imports, year ended June 30)—			
Salt in bulk	56,370	42,719	38,019
Refined salt	(£2,822)	(£2,561)	(£2,754)
British Honduras	401	413	(a)
British West Indies—			
Barbados—			
Common salt	2,172	} 2,050	(a)
Refined salt	(£13)		
Bermuda	(£1,105)	3,627	(£1,396)
Grenada	681	471	554
Jamaica—			
Rock-salt	267	206	3,572
Other salt	7,249	5,119	7,144
Leeward Islands (b)	(£676)	(£3,339)	(£403)
St. Lucia—			
Common salt	386	621	407
Refined salt	9	—	7
St. Vincent—			
Rock-salt	217	426	211
Refined salt	15	10	46
Trinidad and Tobago (total imports)—			
Rock-salt	746	453	505
Refined salt, etc.	2,236	2,405	2,931
British Guiana—			
Rock-salt	648	198	803
Refined salt, etc.	1,325	1,577	1,209
Aden (total imports)	5	3	6
British Borneo—			
Brunei	148	148	143
Sarawak	3,121	3,049	2,621
State of North Borneo	2,004	2,106	2,331

IMPORTS OF SALT (*Cont.*)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE (<i>Cont.</i>)			
British India (total imports) ..	607,277	688,513	532,753
British Malaya (total imports)	62,533	75,664	60,863
Ceylon—			
Refined salt	39	43	64
Other salt	1,237	25	13
Cyprus—			
Refined salt	6	6	6
Palestine (total imports) ..	70	41	114
Australia—			
Rock-salt	5,377	418	1,722
Refined salt	1,328	1,078	(<i>d</i>) (£20,510)
Other salt	6,444	4,661	2,899
Fiji	717	544	624
New Zealand—			
Rock-salt	(<i>c</i>) 1,490	(<i>c</i>) 902	} 30,244
Other salt	(<i>c</i>) 27,471	(<i>c</i>) 35,264	
Solomon Islands	9	11	9
Western Samoa	(£412)	(£534)	(£309)
FOREIGN COUNTRIES			
Austria	6,532	6,370	6,691
Belgium-Luxemburg E.U.—			
Common salt	217,737	217,743	192,418
Refined salt	62,752	65,977	65,293
Bulgaria—			
Rock-salt	20,264	17,854	20,371
Czechoslovakia—			
Common salt	160,932	164,920	151,109
Refined salt	12	108	185
Denmark—			
Rock-salt	6,724	7,738	7,188
Refined salt, etc.	80,089	83,744	89,303

(*b*) Including inter-presidency trade.

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

(*d*) £ Australian.

IMPORTS OF SALT (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Estonia	22,175	21,896	22,445
Finland— Common salt	72,457	71,471	71,827
France	61,364	77,300	75,161
Germany— Rock-salt, sea-salt, etc. ..	27,650	28,125	28,590
Hungary	81,476	86,945	76,744
Iceland— Common salt	96,290	} (a)	(a)
Refined salt.. .. .	228		
Italy— Rock-salt and sea-salt ..	42,804	37,176	43,850
Jugoslavia— Rock-salt	35,934	30,092	13,898
Sea-salt	31,018	28,904	40,991
Latvia— Rock-salt	24,410	13,085	18,130
Common salt	11,703	11,639	11,589
Sea-salt	—	1,037	1,905
Refined salt.. .. .	4	—	10
Lithuania— Crude salt	178	336	3,101
Refined salt.. .. .	30,064	29,989	30,393
Netherlands— Rock-salt	97,538	92,750	88,114
Sea-salt, etc.	24,271	30,198	27,247
Refined salt and waste ..	3,918	3,972	845
Norway— Rock-salt	52,873	61,396	37,538
Common salt	163,608	185,592	130,788
Poland— Refined salt.. .. .	2,299	1,928	1,930
Other salt	—	15	25
Portugal	87	46	39
Spain (total imports)— Common salt	—	4	5

IMPORTS OF SALT (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Rock-salt	65,629	} 144,399	139,620
Sea-salt	30,169		
Refined salt.. .. .	45,975		
Switzerland—			
Rock-salt	502	1,510	280
Other salt	1,471	2,881	723
Abyssinia	20,705	19,009	8,026
Algeria.. .. .	24,243	19,497	15,267
Belgian Congo.. .. .	10,783	12,933	11,311
Cameroon (French)	5,431	5,031	5,252
Dahomey	4,030	3,009	3,679
Egypt—			
Common salt	67	101	77
French Equatorial Africa—			
Rock salt	153	259	} 1,718
Refined salt.. .. .	1,696	2,688	
French Guinea	3,687	2,831	2,294
French Niger	359	463	133
French Sudan	861	846	1,267
Ivory Coast	6,013	6,593	5,968
Madagascar	289	12	1,627
Mauritania	276	1,181	444
Morocco	7,997	5,975	8,026
Mozambique	2,596	1,185	815
Portuguese Guinea	437	1,781	(a)
Senegal	1,441	2,117	3,472
Togoland	1,888	3,023	2,885
Costa Rica (total imports)	180	(a)	(a)
Cuba (total imports)	10,777	(a)	(a)
French West Indies—			
Guadeloupe	(a)	777	(a)
Martinique	1,654	1,230	(a)
Guatemala—			
Common salt	2,139	(a)	(a)
Refined salt.. .. .	153	(a)	(a)
Mexico	6,075	5,734	3,361
Nicaragua (total imports)	321	333	279

(a) Information not available.

IMPORTS OF SALT (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Panama	907	383	(a)
Salvador	3	58	(a)
United States	40,926	48,451	29,923
Argentina—			
Rock-salt	1,471	1,470	1,158
Sea-salt	27,100	24,500	22,100
Refined salt	5,592	8,276	2,866
Bolivia—			
Common salt	450	403	(a)
Refined salt	6	4	(a)
Brazil (total imports)	42,780	47,843	20,620
Chile—			
Common salt	43	28	30
Refined salt	88	98	76
Colombia	1,070	327	(a)
Peru	497	563	255
Uruguay—			
Sea-salt	21,418	24,482	47,603
Rock-salt	244	(a)	(a)
French Indo-China	191	120	61
Iraq (b)	42	17	26
Japan (total imports)	282,081	302,279	364,679
Korea	134,088	131,375	167,378
Netherlands East Indies—			
Refined salt	411	542	(a)
Other salt	10,659	12,499	(a)
Persia (total imports) (d)—			
Common salt	6,275	5,504	4,770
Refined salt	201	6	128
Philippine Islands	206	232	218
Syria and Lebanon—			
Refined salt	4,671	2,674	26
Other salt	556	1,700	12,038
New Caledonia	531	689	461

(a) Information not available.

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

(d) Years ended March 21 of year stated.

SILVER

PRODUCTION OF SILVER ORE

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

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	35,989	40,955	33,989
Bechuanaland Protectorate	148	434	1,362
Gold Coast (estimated) ..	7,500	8,200	8,900
Kenya	131	155	288
Nigeria	6,400	50,500	251,855
Northern Rhodesia ..	2,249	637	548
Southern Rhodesia ..	87,233	72,720	75,960
South West Africa (d) ..	892,000	1,003,000	639,000
Tanganyika Territory ..	1,027	1,278	(a)
Union of South Africa ..	1,031,779	1,050,038	1,063,050
Canada	23,143,261	26,443,823	20,558,216
British Guiana (estimated)	820	780	1,340
India	7,298,327	7,072,050	5,923,005
Federated Malay States (estimated)	2,360	2,600	2,600
Australia	10,071,069	10,075,002	6,730,227
New Zealand	(b) 415,706	(b) 565,860	434,822
Total ..	43,000,000	46,400,000	35,700,000
FOREIGN COUNTRIES			
Austria	38,387	30,446	82,626
Czechoslovakia	1,302,274	1,469,004	1,231,778
France	541,695	652,000	(a)
Germany	5,512,664	5,485,433	3,383,595
Greece	171,130	264,607	(a)
Italy	598,717	506,301	442,000
Jugoslavia	80,000	77,000	80,000
Norway	281,865	401,334	312,104
Poland	376,702	561,191	365,104
Roumania	90,727	142,039	(a)

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

(a) Information not available.

(b) Silver content of exports, excluding jewellers' sweepings.

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

PRODUCTION OF SILVER ORE (Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Spain	2,659,223	2,819,169	1,114,030
Sweden	145,736	191,260	250,000
Algeria	130,625	129,042	(a)
Morocco (French zone) ..	52,000	64,000	(a)
Mozambique	54	38	(a)
Tunis	99,000	92,000	(a)
Mexico	108,700,372	105,204,059	86,064,457
United States	60,860,011	47,724,903	30,828,046
Costa Rica (c)	1,117	—	(a)
Honduras	2,466,095	2,957,120	(a)
Panama	(c) 301,365	(c) —	2,800
Argentina (b)	15,000	15,000	15,000
Bolivia (exports)	6,214,531	7,091,000	5,772,307
Brazil (b)	21,026	20,000	(a)
Chile	1,570,293	760,465	372,361
Colombia	52,269	(a)	(a)
Ecuador (b)	96,511	106,127	(a)
Guiana (French and Dutch) (b)	7,500	7,500	(a)
Peru	21,675,755	14,372,593	11,048,000
Venezuela (b)	4,000	4,000	4,000
China	116,000	145,000	186,000
Formosa	11,796	(a)	(a)
French Indo-China	3,167	3,900	(a)
Japan	5,163,434	5,628,306	5,379,189
Korea	54,724	(b) 68,756	(a)
Netherlands East Indies..	1,991,127	2,094,261	(a)
Turkey (b)	220,000	220,000	220,000
Philippine Islands	101,480	110,278	104,004
Total	222,000,000	197,000,000	154,000,000
WORLD'S TOTAL	265,000,000	247,000,000	190,000,000

(a) Information not available.

(b) Estimates of *United States Mint*.

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

EXPORTS OF SILVER*

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Unrefined bullion ..	6,000,000	7,000,000	8,000,000
Refined bullion ..	70,483,000	77,262,000	74,000,000
Southern Rhodesia—			
Concentrates	23,000	21,000	27,000
Bullion	69,000	52,400	61,500
Union of South Africa—			
Concentrates	5,000	42,000	5,000
Silver in pig-lead ..	1,000	600	—
Bullion	778,000	915,000	1,016,000
Zanzibar—			
Bullion	7,000	—	100
Canada—			
Ore, concentrates, etc.	7,058,000	8,473,000	3,765,000
Bullion	14,800,000	15,800,000	14,100,000
British India (b)—			
Bullion	24,800,000	34,300,000	49,900,000
British Malaya—			
Bullion	467,000	796,000	2,077,000
Australia (years ended June 30)—			
Ores, concentrates and matte	1,742,000	1,522,000	1,096,000
Bullion	7,741,000	8,900,000	8,400,000
New Zealand—			
Concentrates, sweep- ings, etc.	500	7,200	5,400
Bullion	385,000	516,000	505,000
FOREIGN COUNTRIES			
Austria—			
Bullion	386,000	479,000	460,000

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

EXPORTS OF SILVER (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Belgium-Luxemburg E.U.			
Bullion and scrap ..	2,900,000	2,200,000	4,000,000
Beaten, rolled or drawn	4,000	137,000	6,000
Czechoslovakia—			
Bullion	143,000	56,000	160,000
Denmark—			
Bullion	185,000	94,000	37,000
France—			
Bullion	6,611,000	16,740,000	3,340,000
Beaten, rolled or drawn	270,000	485,000	205,000
Germany—			
Bullion	10,000,000	12,000,000	10,000,000
Hungary—			
Bullion	500	700	2,200
Italy—			
Bullion, etc.	114,000	223,000	406,000
Jugoslavia—			
Bullion	5,000	25,000	2,000
Netherlands—			
Bullion and scrap ..	535,000	513,000	490,000
Norway—			
Bullion	117,000	—	(a)
Scrap	54,000	85,000	(a)
Poland—			
Bullion	138,000	600,000	317,000
Roumania—			
Bullion	(a)	90,000	(a)
Spain—			
Bullion	1,215,000	1,276,000	800,000
Sweden—			
Bullion	73,000	101,000	119,000
Switzerland—			
Bullion	727,000	381,000	554,000
Egypt—			
Bullion	156,000	13,000	33,000
Mexico—			
Bullion	108,700,000	104,800,000	84,500,000
Nicaragua—			
Concentrates	40,000	40,000	37,000
United States—			
Ore and base bullion	10,000	4,000	8,000
Refined bullion ..	143,569,000	131,520,000	82,905,000

EXPORTS OF SILVER (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Bolivia—			
Ores	6,215,000	7,091,000	5,772,000
Chile—			
Ore (excluding mixed ore)	36,000	14,000	(a)
Bullion	171,000	38,000	500
Honduras—			
Bullion	2,570,000	(a)	(a)
Colombia—			
Bullion	—	17,000	(a)
Peru—			
Ores, concentrates, etc.	4,122,000	2,453,000	1,394,000
Bullion, etc.	16,834,000	13,455,000	7,519,000
Scrap	900	100	2,000
China—			
Bullion	4,880,000	13,600,000	13,200,000
Iraq (c)—			
Bullion, etc.	3,200	2,500	8,000
Japan—			
Bullion	2,935,000	2,883,000	2,583,000
Korea—			
Bullion	4,500	4,300	7,000
Netherlands East Indies—			
Bullion and scrap	1,943,000	1,794,000	(a)
Persia (b)—			
Bullion	—	—	1,790,000

(a) Information not available.

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

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

IMPORTS OF SILVER *

(In terms of metal)

(Fine troy ounces)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore	1,900,000	900,000	1,000,000
Unrefined bullion	21,000,000	14,000,000	23,000,000
Refined bullion	49,000,000	71,355,000	71,272,000
Gold Coast—			
Bullion	—	400	138,000
Kenya and Uganda—			
Bullion	2,200	500	3,400
Nigeria—			
Bullion	4,500	4,200	41,000
Sierra Leone—			
Bullion	1,200	1,400	800
Union of South Africa—			
Bullion	240	300	800
Zanzibar—			
Bullion	—	—	50
Canada—			
Bullion	1,700,000	1,500,000	1,500,000
British Guiana—			
Bullion	700	1,000	1,700
Trinidad and Tobago—			
Bullion	—	—	13,000
Ceylon—			
Bullion	291,000	246,000	436,000
Cyprus—			
Bullion	10,000	9,000	16,000
British India (<i>b</i>)—			
Bullion	75,500,000	95,700,000	69,800,000
British Malaya—			
Bullion	757,000	1,600,000	2,180,000
Australia (years ended June 30)—			
Matte	3,800	—	1,000
Bullion	37,000	66,000	23,000
Fiji—			
Bullion	700	2,000	—
New Zealand—			
Bullion	10,000	6,000	5,300

IMPORTS OF SILVER (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Austria—			
Bullion	2,450,000	2,004,000	1,570,000
Belgium-Luxemburg E.U.—			
Bullion and scrap ..	32,000	45,000	28,000
Beaten, rolled or drawn	88,000	27,000	29,000
Czechoslovakia—			
Bullion	1,347,000	230,000	360,000
Denmark—			
Bullion, etc.	1,672,000	1,819,000	1,880,000
Finland—			
Bullion, etc.	405,000	371,000	384,000
France—			
Bullion	491,000	3,724,000	3,726,000
Beaten, rolled or drawn..	174,000	300,000	216,000
Germany—			
Ore (c)	(£13,000)	(£2,200)	(£1,400)
Bullion	11,000,000	7,000,000	30,000,000
Scrap (d)	£400,000	£300,000	£164,000
Greece—			
Bullion	1,900	1,400	400
Hungary—			
Bullion	947,000	299,000	308,000
Italy—			
Bullion, etc.	2,478,000	3,617,000	4,812,000
Jugoslavia—			
Bullion	4,000	3,000	5,000
Latvia—			
Bullion and wire.. ..	80,000	159,000	176,000
Lithuania—			
Bullion, etc.	4,000	10,000	50,000
Netherlands—			
Bullion and scrap ..	4,830,000	3,570,000	1,630,000
Norway—			
Bullion	406,000	354,000	(a)
Sheets and wire	357,000	451,000	(a)
Poland—			
Bullion	411,000	3,395,000	523,000
Portugal—			
Bullion	8,000	230,000	250,000
Spain—			
Bullion	65,000	50,000	100,000

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

(a) Information not available.

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

(d) Ag content not known.

IMPORTS OF SILVER (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Sweden—			
Bullion	1,242,000	1,371,000	1,496,000
Switzerland—			
Bullion	2,220,000	1,403,000	2,377,000
Egypt—			
Bullion	1,835,000	1,580,000	450,000
Morocco (French zone)—			
Bullion, etc.	3,300	900	10,000
Beaten, rolled or drawn	1,400	5,200	900
Tunis—			
Beaten, rolled or drawn	76,000	92,000	82,000
United States—			
Ore and base bullion ..	62,339,000	53,896,000	41,858,000
Refined bullion	46,769,000	46,308,000	39,692,000
Argentina—			
Bullion	79,000	54,000	140,000
Brazil—			
Bullion	28,000	27,000	13,000
Chile—			
Bullion	100	2,000	10,000
Colombia—			
Bullion	169,000	15,000	(a)
China—			
Bullion	141,200,000	94,870,000	77,700,000
French Indo-China—			
Bullion, etc.	57,000	121,000	208,000
Beaten, rolled or drawn	800	600	200
Iraq (b)—			
Bullion, etc.	10,600	14,800	20,000
Japan—			
Bullion	68,000	804,000	3,889,000
Korea—			
Bullion	106,200	92,600	100,000
Netherlands East Indies—			
Bullion and scrap ..	963,000	452,000	(a)
Persia (c)—			
Bullion	330,000	290,000	—
Syria and Lebanon—			
Bullion	48,000	96,000	150,000
Turkey—			
Bullion, etc.	2,400	2,300	2,400

(a) Information not available.

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

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

STRONTIUM MINERALS

PRODUCTION OF STRONTIUM MINERALS (Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom— Celestite	5,329	5,141	4,052
FOREIGN COUNTRIES			
Germany (Prussia)— Strontianite.. .. .	717	359	128
Tunis— Celestite	(a)	500	(a)

(a) Information not available.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom— Celestite	3,000	3,211	1,206
FOREIGN COUNTRIES			
France— Strontium compounds ..	4	11	22
Germany (e)— Strontianite and witherite	391	215	378
Strontium compounds ..	731	447	39

(e) Celestite recorded with barytes.

IMPORTS OF STRONTIUM MINERALS, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
Czechoslovakia—			
Strontium nitrate	2	2	2
France—			
Strontium compounds ..	16	16	13
Germany (c)—			
Strontianite and witherite ..	679	1,092	660
Strontium compounds ..	1	—	—
Italy—			
Strontium compounds(b) ..	4	4	6
Poland—			
Strontianite and celestite ..	2 <i>cwt.</i>	8 <i>cwt.</i>	2
United States—			
Strontianite and celestite ..	869	(d) 197	2 <i>cwt.</i>
Strontium compounds ..	1,175	796	778
Chile—			
Strontium compounds ..	4 <i>cwt.</i>	4 <i>cwt.</i>	2 <i>cwt.</i>
Colombia—			
Strontium compounds ..	9 <i>cwt.</i>	3 <i>cwt.</i>	(a)
Turkey—			
Strontium compounds ..	6 <i>cwt.</i>	4 <i>cwt.</i>	(a)

(a) Information not available.

(b) Excluding nitrate of strontium.

(c) Celestite recorded with barytes.

(d) January 1 to June 17 only.

SULPHUR

PRODUCTION OF SULPHUR
(Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom and Irish Free State—			
Spent oxide (c)	174,500	155,432	124,200
New Zealand—			
Sulphur	967	849	—
Southern Rhodesia—			
Sulphur	—	—	100
FOREIGN COUNTRIES			
France—			
Sulphur rock (sulphur content)	4	(a)	(a)
Greece—			
Sulphur rock	1,743	3,588	(a)
Refined sulphur	187	313	(a)
Italy—			
Crude sulphur—			
Fused	318,720	345,024	348,131
Ground	21,149	19,409	19,502
Spain—			
Sulphur rock	73,029	99,295	(a)
Refined sulphur (b)	23,588	21,577	(a)
United States—			
Crude sulphur	2,362,389	2,558,981	2,128,930
Chile—			
Sulphur rock	16,043	18,184	5,018
Ecuador—			
Sulphur	(a)	100	150
China—			
Sulphur	8,300	10,600	9,900
Formosa—			
Sulphur	467	(a)	(a)
Japan—			
Sulphur rock	14,869	14,392	(a)
Refined sulphur	64,430	61,375	54,363
Netherlands East Indies—			
Sulphur	1,535	5,516	1,789
Turkey—			
Sulphur	—	—	73

(a) Information not available.

(b) Partly from imported crude sulphur.

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

1929	..	48.8	per cent.
1930	—	48.6	„ „
1931	..	48.6	„ „

EXPORTS OF SULPHUR
(Domestic Produce)
(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	726	537	148
Union of South Africa ..	9	1	9
British Malaya (including re- exports)	25	21	26
FOREIGN COUNTRIES			
Austria	35	52	27
Belgium-Luxemburg E.U. ..	2,830	2,640	2,385
Czechoslovakia	10	7	5
France—			
Crude	12,966	2,469	3,455
Refined lump	7,367	7,471	5,472
Flowers of sulphur	11,754	8,091	14,869
Precipitated sulphur ..	553	324	1,194
Germany—			
Sulphur, etc.	58,855	55,530	56,766
Italy—			
Ore	30	22	4
Crude lump	168,740	186,968	177,616
Crude ground	12,244	7,232	2,147
Refined lump	18,798	27,158	22,541
Refined ground	10,859	11,892	30,903
Flowers of sulphur	7,587	4,722	3,524
Latvia	—	—	565
Netherlands	97	38	16
Norway	574	1,339	(a)
Spain (including re-exports) ..	3	25	309
Sweden	—	5	3

EXPORTS OF SULPHUR (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Algeria—			
Refined	6	88	} 148
Flowers of sulphur.. ..	47	248	
United States—			
Crude	855,183	593,312	407,586
Refined and flowers of sulphur.. .. .	17,663	16,014	12,142
Chile—			
Refined and flowers of sulphur.. .. .	320	910	710
Formosa	516	362	(a)
Japan	10,277	5,823	13,960
Netherlands East Indies ..	23	19	(a)

(a) Information not available.

IMPORTS OF SULPHUR

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	95,115	84,618	60,172
Malta—			
Flowers of sulphur	85	45	82
Mauritius	601	471	(a)
Northern Rhodesia	1,426	750	146
Southern Rhodesia—			
Flowers of sulphur	6	3	2
South West Africa	2	2	12
Union of South Africa (total imports)—			
Rock-sulphur	19,355	11,758	6,650
Flowers of sulphur	465	16,897	5,068
British Guiana.. .. .	34	—	421
Canada.. .. .	209,755	160,471	110,886
Newfoundland (years ended June 30)	5,184	10,437	6,787
British India (total imports)..	19,223	18,674	15,728
British Malaya (total imports)	183	87	190
Ceylon	100	136	96
Cyprus	163	123	114
Palestine (total imports) ..	5	32	102
Australia	92,896	89,211	29,008
Fiji	5	4	3
New Zealand	33,316	24,581	17,130
FOREIGN COUNTRIES			
Austria	11,385	9,492	9,517
Belgium-Luxemburg E.U. ..	11,139	13,865	9,001
Bulgaria	211	103	238
Czechoslovakia—			
Sulphur	9,162	6,718	7,121
Flowers of sulphur	83	122	111
Denmark	433	374	429
Estonia—			
Crude	5,750	3,970	7,065
Refined	9	17	9
Finland.. .. .	58,015	66,487	59,800
France—			
Crude	216,071	225,428	183,025
Refined lump	1,137	2,307	4,367
Flowers of sulphur.. ..	—	136	700
Precipitated	12	38	104

IMPORTS OF SULPHUR (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Germany—			
Sulphur, etc.	118,532	81,054	76,920
Greece	5,806	8,546	13,612
Italy	34	6	—
Jugoslavia—			
Crude	1,162	1,114	812
Refined	1,401	974	1,376
Latvia—			
Crude	2,700	2,060	400
Refined	11	13	12
Flowers of sulphur	33	45	12
Lithuania—			
Crude	(a)	24,790	17,162
Refined	213	69	30
Netherlands	2,342	1,641	1,341
Norway	17,348	16,281	6,346
Poland—			
Crude	137	75	220
Refined	1,724	1,517	1,472
Flowers of sulphur	83	35	183
Portugal—			
Crude	4,482	5,028	7,058
Flowers of sulphur	3,170	1,543	3,030
Other sulphur	149	2	1
Roumania—			
Crude	(a)	2,132	(a)
Refined and flowers of sulphur	(a)	988	(a)
Russia—			
Crude	12,702	11,898	15,442
Refined	1,876	5,651	6,447
Flowers of sulphur	4,190	2,761	104
Spain (total imports)—			
Crude, unground	16,333	14,352	9,653
Refined, unground	252	145	5
do. ground, and flowers of sulphur	1,794	1,799	1,103
Sweden	84,427	72,618	59,371
Switzerland—			
Crude and ground	4,729	2,495	3,724
Flowers of sulphur	405	222	420
Algeria—			
Crude	10,749	12,123	} 23,779
Refined	4,738	4,837	
Flowers of sulphur	5,945	4,644	

(a) Information not available.

IMPORTS OF SULPHUR (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Belgian Congo.. .. .	4,210	7,488	4,042
Egypt	1,613	2,150	1,675
Madagascar	2	26	19
Morocco (French zone) ..	702	480	668
Mozambique	216	172	222
Tunis—			
Crude	1,450	7,418	4,270
Refined	1,127	965	2,246
Costa Rica (total imports) ..	9	(a)	(a)
Cuba (total imports)	59	(a)	(a)
Panama	14	8	(a)
Salvador	39	27	(a)
United States—			
Sulphur ore and sulphur ..	1,477	161	189
Argentina—			
Crude	12,301	12,040	12,234
Refined	380	177	205
Bolivia	23	4	(a)
Brazil (total imports)	8,610	4,134	3,702
Chile—			
Refined	82	10	—
Colombia—			
Flowers of sulphur	126	68	(a)
Ecuador	73	132	113
Peru	234	208	208
Uruguay	2,094	2,368	2,406
Venezuela	59	(a)	(a)
China	3,753	5,290	3,896
French Indo-China	125	31	127
Netherlands East Indies ..	17,291	18,202	(a)
Syria and Lebanon	60	37	136
Turkey.. .. .	3,701	1,283	2,897

(a) Information not available.

TALC.

PRODUCTION OF TALC

(Long tons).

Producing Country.	1929	1930	1931
BRITISH EMPIRE.			
United Kingdom	29	185	160
Union of South Africa ..	435	349	210
Canada (sales) (g)	13,847	10,572	10,568
India	7,217	6,857	5,135
Australia	1,333	681	846
FOREIGN COUNTRIES.			
Austria	25,000	25,000	25,000
Finland	2,803	2,803	(a)
France	103,890	(a)	(a)
Germany (Bavaria)	6,698	5,702	4,142
Greece	148	252	(a)
Italy	40,126	37,491	37,800
Norway	8,200	7,569	4,062
Roumania (d)	1,060	3,300	(a)
Spain (b)	8,869	3,621	(a)
Sweden	6,915	5,036	(a)
Morocco (French zone) (ex-ports)	600	552	34
United States (sales) (c) ..	196,235	160,165	146,207
Uruguay (exports)	928	1,440	1,761
China	40,000	26,000	22,000

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

(a) Information not available.

(b) In addition the following were quarried : 1,666 cubic yards in 1929, and 1,770 cubic yards in 1930.

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

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

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

1929.. .. .	£9,807
1930.. .. .	£10,232
1931.. .. .	£7,300

EXPORTS OF TALC
(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	426	248	116
Canada	10,178	7,733	7,010
British India	—	5	—
FOREIGN COUNTRIES			
Austria	19,293	18,237	16,733
Belgium-Luxemburg E. U. ..	83	57	89
Czechoslovakia	149	190	123
Finland	460	496	233
France	35,310	27,478	24,588
Germany	975	857	817
Greece	153	13	34
Italy	21,782	21,250	19,328
Norway	9,337	11,574	8,540
Roumania	(a)	310	(a)
Morocco (French zone) ..	600	552	34
Uruguay	928	1,440	1,761

(a) Information not available.

IMPORTS OF TALC

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	16,309	14,848	13,558
Canada	4,925	4,285	2,384
Australia	332	271	360
FOREIGN COUNTRIES			
Austria	270	164	100
Belgium-Luxemburg E. U. ..	4,462	3,701	3,322
Czechoslovakia	2,323	2,416	2,138
Denmark	1,375	1,457	1,253
Estonia	246	115	28
Finland	502	1,248	917
France	5,840	6,638	5,022
Germany	23,890	21,300	19,232
Jugoslavia	390	695	638
Latvia	55	70	42
Lithuania	(a)	38	33
Poland	2,297	2,220	1,653
Roumania	(a)	365	(a)
Sweden	3,739	(a)	(a)
Algeria	482	194	(a)
Egypt	1,457	1,614	1,387
Tunis	390	529	522
Panama	32	33	(a)
United States (including manufactures)	27,899	22,511	21,025
Argentina	1,577	1,254	2,059
Chile	239	136	128
Colombia	113	127	(a)
Peru	82	61	80
Venezuela	31	(a)	(a)
Formosa	36	24	(a)
French Indo-China	19	13	8
Japan (total imports)	38,920	36,485	40,750
Syria and Lebanon	66	23	38
Turkey	(a)	18	13

(a) Information not available.

TIN

PRODUCTION OF TIN ORE

(In terms of metal)

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	3,271	2,488	598
Nigeria	10,734	8,331	6,860
Southern Rhodesia	13	9	7
South West Africa	171	130	82
Swaziland	130	113	54
Tanganyika Territory	14	7	14
Uganda	225	266	108
Union of South Africa	1,218	930	408
India	2,649	2,990	2,979
Federated Malay States (shipments)	67,041	62,065	51,250
Unfederated Malay States	2,326	1,910	1,377
Straits Settlements	3	3	15
Australia	2,239	1,451	1,750
Total	90,000	80,700	65,500
FOREIGN COUNTRIES			
Czechoslovakia	24	25	7
France	9	(a)	(a)
Portugal	500	650	390
Spain	236	141	(a)
Belgian Congo	978	905	271
Mexico	5	265	761
United States	35	15	4
Argentina	3	—	—
Bolivia (exports)	46,337	38,160	31,138
China	5,420	5,196	6,191
French Indo-China	829	993	874
Japan	1,092	1,496	(a)
Netherlands East Indies..	35,920	35,177	27,245
Siam	10,517	11,526	12,495
Total	102,000	95,000	81,000
WORLD'S TOTAL	192,000	175,000	146,000

(a) Information not available.

SMELTER PRODUCTION OF TIN

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (estimated)	55,400	47,300	36,000
British Malaya (c)	105,514	96,972	87,514
Australia	2,260	1,544	1,690
Total	163,000	146,000	125,000
FOREIGN COUNTRIES			
Belgium (estimated)	900	700	200
France	507	700	700
Germany	2,671	2,805	1,800
Italy	118	87	8
Netherlands (estimated)	1,000	2,000	3,000
Mexico	—	—	12
Portugal	—	—	61
Norway	(a)	(a)	196
China	6,532	6,256	5,891
French Indo-China	309	283	67
Japan	665	773	69
Netherlands East Indies (exports)	13,350	14,359	12,783
Total	26,000	28,000	25,000
WORLD'S TOTAL	189,000	174,000	150,000

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

1929 ..	30,625 long tons.
1930 ..	23,400 " "
1931 ..	17,700 " "

(a) Information not available; see page 188.

(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	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore and concentrates ..	391	118	79
Blocks, ingots, bars and slabs	30,437	22,913	12,087
Soft solder	3,050	2,775	2,690
Tin-foil	310	302	185
Nigeria—			
Ore	15,129	12,067	10,794
Southern Rhodesia—			
Ore	12	72	8
South West Africa—			
Ore	237	296	121
Tanganyika—			
Ore and concentrates ..	19	10	21
Uganda—			
Ore	324	351	170
Union of South Africa—			
Ore and concentrates ..	1,818	1,240	641
British India—			
Ore	3,376	2,774	2,376
Blocks, ingots, bars and slabs	691	716	779
British Malaya (including re- exports)—			
Tin	102,024	97,213	83,704
Australia—			
Ore, dross etc. (<i>Sn content</i>)(b)	2	3	1
Ingots	1,062	584	888
FOREIGN COUNTRIES			
Austria—			
Crude tin, alloys and scrap	179	124	107
Belgium-Luxemburg E.U.—			
Ore	14	42	58
Ingots, pigs, scrap, etc. ..	554	394	2,615
Sheets, wire, etc.	226	271	184
Czechoslovakia—			
Crude tin, scrap and alloys	137	122	93
Denmark—			
Blocks, bars and scrap ..	27	55	37

EXPORTS OF TIN (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
France—			
Ore	329	191	455
Scrap	717	987	617
Pigs, bars, etc.	744	956	852
do. (alloys)	339	284	383
Sheets and wire	92	75	57
Germany—			
Ingots, bars, scrap and alloys	4,987	4,918	4,923
Sheets and wire	2	24	70
Tin-foil	292	275	218
Hungary—			
Crude tin	3	19	18
Italy—			
Ingots, bars, scrap and alloys	313	272	96
Sheets, wire, etc. and alloys	36	26	8
Netherlands—			
Blocks	421	1,659	2,799
Sheets, wire, etc.	59	71	96
Norway—			
Ingots and bars	116	124	(a)
Poland	1	—	2
Portugal—			
Ore	692	913	576
Spain (including re-exports)—			
Ore	—	—	33
Ingots and bars	21	85	53
Sweden—			
Crude and scrap	127	48	47
Sheets, pipes and wire	4	(a)	(a)
Switzerland—			
Pigs, bars and slabs	15	17	209
Sheets, wire, etc., and alloys	—	65	75
Tin-foil	776	567	271
Scrap	112	105	19
Belgian Congo—			
Ore	1,306	1,240	127
Egypt—			
Ingots	2	—	—
Mexico—			
Concentrates	—	438	1,180
United States—			
Blocks, pigs and bars	790	84	(a)

(a) Information not available.

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

EXPORTS OF TIN (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Argentina—			
Ore	2	—	—
Bolivia—			
Ores, concentrates, etc. (<i>See content</i>)	46,337	38,160	31,138
China—			
Ingots and slabs	6,778	6,483	3,478
Tin-foil	18	18	13
French Indo-China—			
Ore	27	1,142	—
Tin-tungsten ore	971	777	1,767
Ingots and scrap	241	293	79
Japan—			
Concentrates	—	433	829
Tin-foil	83	69	74
Netherlands East Indies—			
Ore	27,614	26,838	21,193
Ingots	13,350	14,359	12,783
Siam (including re-exports)—			
Ore	14,494	15,885	17,219

IMPORTS OF TIN
(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore and concentrates ..	91,458	75,601	60,138
Blocks, ingots, bars and slabs	2,837	4,312	6,979
Soft solder	231	36	23
Tin-foil	345	276	204
Irish Free State—			
Ingots, bars, slabs, etc. ..	26	26	12
Soft solder	150	125	112
Kenya and Uganda—			
Ore	—	30	(b) 2
Bar, plate, or sheet ..	1,231	1,756	325
Mauritius—			
Slabs, plates and sheets ..	80	12	(a)
Southern Rhodesia (total imports)—			
Blocks, ingots and bars ..	12	28	18
South West Africa—			
Bar, sheet, etc.	3	2	2
Tanganyika—			
Bars and sheets	8	5	—
Union of South Africa (total imports)—			
Blocks, ingots, bars, plates and sheets	736	750	279
Tin-foil	34	16	12
Canada—			
Blocks, pigs and bars ..	2,551	2,354	1,841
Tin-foil	46	33	12
British India (total imports)—			
Blocks, ingots, bars and slabs	2,768	2,837	2,098
Wrought tin	6	22	5
Tin (government stores) ..	274	196	188
British Malaya (total imports)—			
Ore	48,785	47,165	31,369
Ceylon—			
Ingots, slabs, etc.	70	50	34
Tin solder	52	44	53

(a) Information not available.

(b) Excess of re-exports.

IMPORTS OF TIN (Cont.)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE—Cont.			
Cyprus—			
Ingots and bars	6	7	10
Australia—			
Ingots	186	159	59
New Zealand—			
Ingots, etc.	276	251	152
Tin-foil	18	13	(a)
FOREIGN COUNTRIES			
Austria—			
Crude, alloys and scrap ..	1,210	908	940
Belgium-Luxemburg E.U.—			
Ore	1,243	984	297
Ingots, pigs, scrap, etc. ..	1,147	1,298	3,309
Sheets, wire, etc.	58	65	71
Bulgaria—			
Crude, bars, sheets, scrap, etc.	184	191	174
Czechoslovakia—			
Crude, scrap, and alloys ..	1,976	1,766	1,495
Tin-foil	11	13	9
Denmark—			
Crude and scrap	590	651	539
Sheets, wire, etc.	36	15	23
Tin-foil	45	60	50
Estonia—			
Crude and scrap	26	17	33
Finland—			
Ingots, sheets and scrap ..	234	198	170
Tin solder	17	15	13
France—			
Ore	698	897	914
Scrap	32	101	127
Pigs, bars, etc.	12,161	11,970	10,685
do. (alloyed with antimony)	398	338	357
Sheets and wire	342	333	161
Germany—			
Ore	9,984	10,060	6,354
Crude, scrap and alloys ..	17,248	14,409	13,300
Sheets and wire	7	63	85
Tin-foil	143	106	25
Greece	195	187	171

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Hungary—			
Crude	635	490	408
Foil	40	33	20
Italy—			
Ingots, bars, scrap and alloys	5,239	4,632	3,540
Tubes, wire and alloys ..	7	12	10
Jugoslavia—			
Crude	480	593	394
Bars, sheets, wire, etc. ..	27	12	4
Tin-foil	8	11	9
Latvia—			
Ingots and scrap	62	49	53
Lithuania—			
Ingots and scrap	10	17	8
Netherlands—			
Ore	2,365	3,789	4,868
Blocks	1,105	1,192	920
Sheets, wire, etc.	59	120	77
Norway—			
Crude	309	324	249
Bars, sheets, filings, etc. ..	153	219	200
Poland—			
Ingots, bars and sheets ..	782	757	596
Portugal—			
Sheets, wire, etc.	396	349	336
Roumania—			
Ingots, bars and scrap ..	(a)	309	(a)
Russia			
Blocks, pigs and scrap ..	4,970	4,830	4,415
Spain (total imports)—			
Ingots and bars	1,805	1,907	1,707
Sheets and tubes	19	17	11
Foil	28	56	29
Sweden—			
Crude and scrap	1,657	1,674	1,346
Sheets, pipes and wire ..	50	(a)	(a)
Switzerland—			
Pigs, bars and slabs	2,196	2,260	1,589
Sheets, wire, etc. and alloys	10	12	11
Foil	19	12	18
Scrap	203	158	82

(a) Information not available.

IMPORTS OF TIN (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Algeria—			
Tin and alloys	275	293	220
Belgian Congo.. ..	29	35	19
Egypt—			
Crude and scrap	409	474	453
Morocco—			
Ingots, sheets and wire	52	30	51
Réunion	2	(a)	(a)
Tunis—			
Pigs, bars, and sheets	52	61	59
Cuba (total imports)—			
Ingots	60	(a)	(a)
Bars, sheets, etc.	68	(a)	(a)
Salvador	41	26	(a)
United States—			
Ore (<i>Sn content</i>)	128	289	30
Blocks, pigs, bars, etc.	85,987	78,585	64,404
Argentina—			
Ingots and sheets	1,555	1,242	950
Brazil (total imports)—			
Bars, rods, sheets and plates	726	579	392
Chile—			
Ingots	407	115	105
Bars and sheets	187	13	2
Ecuador—			
Ingots, sheets, etc.	7	7	5
Peru—			
Bars and sheets	100	46	15
Tin-foil	2	1	1
Solder	22	18	10
Uruguay—			
Ingots	345	260	245
Venezuela—			
Ingots	50	(a)	(a)
China—			
Ingots and slabs	3,220	3,128	1,087
Tin and lead foils	4,088	399	89
French Indo-China—			
Tin-tungsten ore	—	21	—
Ingots and alloys	138	159	94
Sheets	83	74	69

IMPORTS OF TIN (*Cont.*)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Formosa—			
Ingots, slabs, etc.	156	139	(a)
Tin-foil	1	5	(a)
Iraq (<i>b</i>)—			
Crude, etc.	604	138	55
Japan (total imports)—			
Ingots and slabs	3,993	3,165	3,152
Tin-foil	9	5	3
Netherlands East Indies—			
Tin and tin-foil	277	230	(a)
Philippine Islands—			
Ingots	67	81	43
Tin-foil	160	42	—
Siam (total imports)—			
Crude	46	34	12
Syria and Lebanon—			
Ingots and sheets	18	28	82
Turkey—			
Ingots, etc.	347	414	317

(a) Information not available.

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

TITANIUM MINERALS

PRODUCTION OF TITANIUM MINERALS

(Long tons)

Producing Country and Description	1929	1930	1931
BRITISH EMPIRE			
Sierra Leone—			
Ilmenite	—	—	10
Canada (shipments)—			
Titaniferous iron ore ..	2,454	368	1,347
India—			
Ilmenite	23,670	28,776	36,166
FOREIGN COUNTRIES			
Norway—			
Ilmenite	7,798	7,509	5,000
Rutile	43	45	21
Portugal			
Ilmenite	55	820	150
Senegal—			
Ilmenite	7,126	1,210	—
Brazil (exports)—			
Ilmenite	6,261	79	—

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

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE.			
Canada—			
Titaniferous iron ore	3,446	498	1,388
India (Travancore) (b)—			
Ilmenite	19,950	15,410	33,783
FOREIGN COUNTRIES			
France—			
Titanium oxide	3	3	50
Italy—			
Ferro-titanium	41	18	73
Titanium di-oxide	(a)	(a)	488
Norway—			
Ilmenite	6,265	6,484	(a)
Rutile	31	28	(a)
Senegal—			
Ilmenite	7,145	5,237	394
Brazil—			
Ilmenite	6,261	79	—

(a) Information not available.

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

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Titanium and zirconium minerals	42	29	80
FOREIGN COUNTRIES			
France—			
Titanium oxide	664	883	1,118
Italy—			
Ferro-titanium	14	7	5
United States—			
Ilmenite	22,386	22,298	29,857
Titanium and ferro-titanium	7	1	1
Titanium compounds	56	37	21
Rutile	5	(c) 3	1

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

(c) January 1 to June 17 only.

TUNGSTEN

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE.			
United Kingdom—			
Tungsten ore	27	128	100
<i>WO₃ content</i>	16	90	71
Southern Rhodesia—			
Tungsten ore	26	35	21
Union of South Africa—			
Mixed ores (<i>W content</i>)	—	—	1
India—			
Tungsten ore	1,348	2,452	2,248
Federated Malay States—			
Wolfram	44	65	—
Scheelite	280	784	368
Unfederated Malay States—			
Wolfram	116	195	193
Australia—			
Wolfram	211	201	80
Scheelite	9	6	4
New Zealand—			
Tungsten ore	23	24	—
FOREIGN COUNTRIES.			
Czechoslovakia—			
Tin-tungsten ores (<i>WO₃ content</i>)	44	44	10
France—			
Tungsten ore (<i>WO₃ content</i>)	10	—	(a)
Portugal—			
Wolfram	344	464	257
Tin-tungsten ores	6	—	(a)
Spain—			
Wolfram	251	231	(a)
<i>WO₃ content</i>	151	150	(a)
Mexico—			
Tungsten ore	10	25	—

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES—(Cont.)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
United States—			
Concentrates (60% WO_3)	741	627	1,254
Argentina—			
Tungsten ore	58	90	(a)
Bolivia—			
Tungsten concentrates (exports) (<i>W</i> content).	962	524	242
China—			
Tungsten ore	9,708	6,736	2,970
French Indo-China—			
Tin-tungsten ores (WO_3 content)	117	130	156
Japan—			
Tungsten ore	55	73	(a)
Korea—			
Tungsten ores (65% WO_3)	14	11	(a)
Netherlands East Indies—			
Tungsten ore	10	15	(a)
Siam (exports)—			
Tungsten ore	56	6	10

(a) Information not available.

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

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Tungsten ore	253	109	140
Ferro-tungsten	643	509	1,009
Tungsten powder, wire, etc.	163	103	63
British India—			
Wolfram ore	1,608	3,268	4,468
British Malaya (including re-exports)—			
Wolfram	292	247	181
Scheelite	276	793	368
Australia (including re-exports)—			
Wolfram	233	182	62
New Zealand—			
Scheelite	33	17	5
FOREIGN COUNTRIES			
Czechoslovakia—			
Tungsten ore	81	60	10
Italy—			
Ferro-tungsten	1	9	207
Portugal—			
Tungsten ore	284	467	278
Spain—			
Wolfram and wulfenite ..	961	848	192
Mexico—			
Tungsten ore	17	42	—
United States—			
Tungsten and ferro-tungsten	46	13	472
Argentina—			
Tungsten ore	42	93	23
Bolivia—			
Tungsten ore (<i>W content</i>)	962	524	242
China—			
Tungsten ore	8,729	8,589	6,807
French Indo-China—			
Tin-tungsten ore	971	777	1,767
Tungsten ore	67	117	206
Korea—			
Tungsten ore	25	9	1
Siam (including re-exports)—			
Tungsten ore	56	6	10

(a) Information not available.

IMPORTS OF TUNGSTEN, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Tungsten ore	1,630	3,190	3,229
Tungsten powder, wire, etc.	2	1	2
British Malaya (total imports)—			
Tungsten ore	41	5	—
FOREIGN COUNTRIES			
Czechoslovakia—			
Tungsten ore	—	—	2
Germany—			
Tungsten ore	3,714	3,950	4,746
Italy—			
Ferro-tungsten	57	47	57
Jugoslavia—			
Tungsten ore	20	10	—
Norway—			
Ferro-tungsten, etc. ..	26	83	
Russia—			
Ferro-tungsten	1,052	1,617	3,623
Spain—			
Wolfram and wulfenite ..	4,611	11,734	—
Sweden—			
Ferro-tungsten	(b) 330	223	98
United States (total imports)—			
Ore, tungsten and alloys (<i>W</i> <i>content</i>)	3,040	1,613	532
French Indo-China—			
Tin-tungsten ore	—	21	—

(a) Information not available.

(b) Including ferro-vanadium-titanium, etc.

URANIUM MINERALS

PRODUCTION OF URANIUM MINERALS
(Cwt.)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	(b)	—	—
FOREIGN COUNTRIES			
Czechoslovakia (U_3O_8) ..	316	259	309
Germany (Prussia) ..	14	—	—
Belgian Congo	(i)	(i)	8,149
Madagascar	—	—	8
United States (U_3O_8) ..	232	(a)	11

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

(a) Information not available.

(b) Information not available for publication.

(i) The output of uranium minerals is not available for these years but it is reported that the radium produced from these ores amounted to 60, 60 and 40 grams in 1929, 1930 and 1931 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	1929	1930	1931
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.— Uranium oxide	Cwt.	2,230	795	1,701
France— Uranium salts	Cwt.	—	6	2
Radium and radium products	Lb.	13	—	—
Portugal— Uranium minerals	Cwt.	—	20	—
Belgian Congo— Uranium minerals	Cwt.	18,580	25,518	7,531

IMPORTS OF URANIUM MINERALS, ETC.

(Less Re-exports)

Importing Country and Description	Unit	1929	1930	1931
BRITISH EMPIRE				
United Kingdom—				
Uranium minerals	Cwt.	145	318	165
Canada—				
Radium	£	8,315	9,446	44,147
FOREIGN COUNTRIES				
Belgium-Luxemburg E.U.—				
Uranium oxide	Cwt.	—	2	4
France—				
Uranium oxide	Cwt.	83	114	69
Other uranium salts ..	do.	6	10	16
Radium and radium products	Lb.	15	527	198
United States—				
Uranium oxide and salts ..	Cwt.	2,437	2,064	1,608
Radium salts and radioactive substances ..	£	119,227	190,220	167,914
Colombia—				
Uranium oxide and salts ..	Lb.	7	(a)	(a)
Uruguay—				
Uranium oxide	Cwt.	30	(a)	(a)

(a) Information not available.

VANADIUM

PRODUCTION OF VANADIUM ORES (Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Northern Rhodesia—			
Metal	59	55	151
Concentrates	—	—	703
South West Africa	3,036	4,461	4,602
FOREIGN COUNTRIES			
France	50	70	(a)
Mexico (V_2O_5 content)	1	—	—
Peru (V content)	888	440	(a)

Vanadium ores are also produced in the United States.
(a) Information not available for publication.

EXPORTS OF VANADIUM (Domestic Produce) (Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
Northern Rhodesia—			
Ore	532	768	504
Oxide	—	—	190
South West Africa—			
Ore	5,185	3,835	3,940
FOREIGN COUNTRIES			
France—			
Oxide	—	—	2
Peru—			
Ore	9,441	5,005	—
V content	799	447	—

(a) Information not available.

IMPORTS OF VANADIUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES			
France— Vanadium oxide	8	—	—
Italy— Ferro-vanadium	31	31	31
Norway— Ferro-vanadium, etc. ..	26	83	(a)
Russia— Ferro-vanadium	50	199	339
United States— Ore	8,714	5,168	—

(a) Information not available.

Imports of vanadium ore, etc., in the United Kingdom are not separately recorded.

ZINC

PRODUCTION OF ZINC ORE

(In terms of metal)

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom	851	647	196
Nigeria	—	12	—
Northern Rhodesia ..	22,230	19,477	6,927
Canada (shipments) (b) ..	138,298	117,726	192,302
Newfoundland (estimated)	23,000	23,000	38,000
India	55,400	60,700	45,300
Australia	154,562	119,613	74,212
Total ..	394,000	341,000	357,000
FOREIGN COUNTRIES			
Austria	3,897	3,501	686
Belgium (c)	5,000	4,000	4,000
Czechoslovakia	8	632	1,362
Finland	802	443	(a)
France	9,983	8,000	6,000
Germany	140,217	136,463	103,358
Greece	5,814	3,637	(a)
Hungary	120	480	(a)
Italy	85,666	78,309	53,883
Jugoslavia	170	—	—
Norway	1,423	7,509	7,310
Poland	138,000	118,000	62,000
Russia	10,500	17,700	20,000
Spain	50,500	48,200	38,600
Sweden	29,456	29,500	24,500
Algeria	13,576	7,836	3,500
Egypt	578	300	(a)
French Morocco	1,018	400	(a)

PRODUCTION OF ZINC ORE (*Cont.*)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Tunis	3,691	800	400
Mexico	171,301	122,124	118,360
United States	646,855	531,647	358,700
Bolivia (exports)	1,373	5,933	14,438
Chile	38	1	(a)
Peru	23,312	(a)	(a)
China	8,000	6,000	5,800
French Indo-China	18,464	15,600	8,000
Korea (ore)	5,018	(a)	(a)
Japan (c)	10,000	10,000	10,000
New Caledonia	305	1,000	(a)
Turkey (estimated)	5,700	2,900	1,500
Total ..	1,390,000	1,180,000	850,000
WORLD'S TOTAL	1,780,000	1,520,000	1,210,000

(a) Information not available.

(b) The amount estimated as recoverable was—

1929 ..	88,066 long tons.
1930 ..	119,484 ..
1931 ..	105,913 ..

(c) *Metallgesellschaft* estimate.

METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
United Kingdom (b) ..	58,298	48,598	21,241
Northern Rhodesia ..	12,121	17,907	6,927
Canada	76,829	108,479	105,913
Australia	51,872	54,901	53,832
Total ..	199,000	230,000	188,000
FOREIGN COUNTRIES			
Belgium	194,774	173,447	136,300
Czechoslovakia	10,506	13,259	7,792
France	85,951	85,500	61,500
Germany (b) (d)	106,717	99,784	48,000
Italy	15,554	18,960	16,646
Jugoslavia	6,191	5,418	4,393
Netherlands	25,306	22,888	19,018
Norway	5,429	34,064	38,849
Poland	166,359	171,608	128,691
Russia (years ended Sept.30)	4,300	4,577	9,000
Spain	11,639	10,528	10,659
Sweden	4,697	4,139	—
Mexico	16,031	18,450	34,388
United States (c)	558,435	444,683	260,711
French Indo-China	3,748	3,795	2,836
Japan	21,750	24,280	22,200
Total ..	1,240,000	1,140,000	800,000
WORLD'S TOTAL ..	1,440,000	1,370,000	990,000

(b) Includes some secondary metal.

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

	1929	1930	1931
A—High grade ..	185,108	139,727	74,504
B—Intermediate grade	24,491	23,285	21,361
C & D—Select and brass special	85,860	83,277	65,423
E—Prime western ..	305,251	229,510	118,730
<i>Total secondary zinc recovered</i>	<i>157,300</i>	<i>113,800</i>	<i>91,000</i>

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

	1929	1930	1931
	100,400	95,800	44,600

PRODUCTION OF ZINC SHEETS
(Long tons)

Producing Country	1929	1930	1931
United Kingdom	3,354	3,500	3,200
Austria (estimated) ..	1,000	1,000	1,000
Belgium	67,871	73,707	(a)
Czechoslovakia (estimated)	1,400	1,550	(a)
France (estimated) ..	60,000	60,000	60,000
Germany	71,374	65,706	51,114
Jugoslavia	976	1,221	(a)
Poland	18,522	21,653	18,114
Spain	4,088	4,218	(a)
United States	61,012	45,879	52,085

PRODUCTION OF ZINC DUST
(Long tons)

Producing Country	1929	1930	1931
FOREIGN COUNTRIES			
Belgium	3,799	2,520	2,200
Germany (estimated) ..	2,900	(a)	(a)
Poland	8,192	7,700	8,700
United States—			
Prepared blue powder (sales)	9,866	8,247	9,474
Primary zinc recovered as dust	2,913	2,285	(a)

PRODUCTION OF ELECTROLYTIC ZINC
(Long tons)

Producing Country	1929	1930	1931
BRITISH EMPIRE			
Northern Rhodesia ..	12,121	17,907	6,871
Canada	76,829	111,821	
Australia (Tasmania) ..	51,872	54,091	53,832
FOREIGN COUNTRIES			
France	15,303	20,500	23,100
Italy	9,421	12,979	10,588
Norway	5,429	34,064	38,849
Poland	13,009	20,252	(c) 10,300
United States	139,496	117,113	73,402
Japan	840	(c) 1,000	(c) 1,000

(a) Information not available.

(b) Included with "blue powder."

(c) Estimated.

EXPORTS OF ZINC

(Domestic Produce)

(Long tons)

Exporting Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Ore (including ashes) ..	20,811	3,265	12,518
Spelter	4,458	3,856	4,978
Sheets, plates and discs ..	1,806	1,413	1,176
Oxide	1,892	2,797	4,419
Lithopone	1,762	1,222	1,674
Nigeria—			
Ore	—	10	—
Northern Rhodesia—			
Ingots	11,880	15,208	11,719
Canada—			
Ore (<i>Zn content</i>)	11,491	20,966	—
Spelter	60,306	67,395	106,258
Dross, scrap and ashes ..	3,410	2,147	488
Newfoundland (years ended June 30)—			
Concentrates	18,168	55,213	45,783
British Borneo (Sarawak)—			
Zinc	(£734)	(£1,504)	(£136)
British India—			
Concentrates, etc.	67,408	64,800	54,818
British Malaya (including re-exports)—			
Sheets	70	87	88
Australia (including re-exports)—			
Ores and concentrates (<i>Zn content</i>) (b)	92,649	106,554	80,660
Dust (<i>£ Australian</i>)	(£15)	(£95)	(£100)
Bars, rods, sheets, etc. ..	31,346	33,387	56,396
FOREIGN COUNTRIES			
Austria—			
Ores	3,800	1,778	2,512
Spelter, scrap and alloys ..	1,964	1,487	1,338
Sheets, bars, etc.	53	161	131
Zinc-white and zinc-grey ..	22	160	56
Lithopone, etc.	21	39	191

EXPORTS OF ZINC (*Cont.*)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (<i>Cont.</i>)			
Belgium-Luxemburg E.U.—			
Ore	55,115	53,877	33,943
Spelter and scrap	70,419	59,344	55,720
Sheets and wire	61,642	55,157	46,763
Dust	2,738	2,758	3,015
Oxide	13,360	11,159	10,334
Lithopone	9,282	10,006	13,222
Bulgaria—			
Ore, including nickel ore ..	2,183	506	—
Czechoslovakia—			
Ore	12	—	192
Spelter, scrap and alloys ..	1,993	1,595	697
Sheets and plates	2,611	1,163	917
Zinc-white and zinc-grey ..	3,490	2,949	1,640
Lithopone	1,194	1,165	1,033
Denmark—			
Spelter, sheets and scrap ..	206	161	356
France—			
Ore	13,120	33,516	29,103
Spelter, bars and scrap ..	16,103	10,510	5,710
Sheets	13,062	7,385	4,778
Oxide	318	2,997	3,390
Lithopone	214	1,504	437
Germany—			
Ore	177,627	187,585	124,896
Spelter, dust, scrap and alloys	42,244	26,318	14,833
Sheets and wire	1,195	5,427	6,779
Zinc-white and zinc-grey ..	18,961	24,695	29,298
Lithopone	20,159	18,567	17,816
Greece—			
Blende	413	—	—
Calamine	443	596	—

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

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Hungary—			
Spelter and scrap	50	106	75
Sheets	563	330	322
Zinc-white and zinc-grey ..	87	79	81
Italy—			
Ore	159,812	142,296	67,419
Ashes	533	424	173
Spelter, scrap and alloys ..	1,133	174	414
Sheets, wire and alloys, etc.	17	20	25
Oxide	25	23	31
Lithopone	468	356	423
Jugoslavia—			
Ore	1,721	4,836	43,751
Spelter, scrap and dust ..	4,002	2,679	2,015
Plates and sheets	345	759	10
Zinc-white	7	8	57
Netherlands—			
Ore	606	30	20
Spelter and scrap	24,329	21,184	15,242
Sheets, wire and dust ..	2,981	2,423	4,739
Oxide	152	45	90
Norway—			
Ore	2,510	11,131	(a)
Spelter	3,013	26,669	44,682
Zinc-white	12	37	(a)
Ashes and scrap	265	442	643
Poland—			
Ores and slag	1,382	1,044	821
Spelter, dust and scrap ..	127,187	130,042	107,113
Refined zinc	10,961	7,763	6,962
Sheets, tubes and wire ..	13,905	12,423	9,513
Zinc-white and lithopone ..	3,464	1,983	3,025
Roumania—			
Ore and scrap	(a)	6,984	(a)
Zinc-white and zinc-grey ..	(a)	13	(a)
Russia—			
Calamine	34,329	23,250	46,021
Spain (including re-exports)—			
Blende	73,820	81,639	60,583
Calamine	22,139	41,802	31,117
Spelter and scrap	3,418	2,876	2,109

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Sweden—			
Ore	74,001	71,301	63,921
Spelter and scrap	5,348	4,469	1,805
Sheets	15	9	2
Zinc-white	1,521	1,329	15
Switzerland—			
Spelter and scrap	3,794	3,488	4,059
Zinc-white, etc.	29	1	4
Algeria—			
Ore	28,692	16,453	7,467
Spelter, plates and scrap ..	510	477	278
Egypt—			
Spelter and scrap	60	(b) 2,428	75
Morocco—			
Ore and scrap	1,975	409	574
Tunis (including re-exports)—			
Ore	5,972	4,559	1,138
Mexico—			
Ores and concentrates	(c) 155,270	202,265	146,611
Spelter	16,031	16,764	39,500
United States—			
Ore	63	—	12
Dross	3,116	1,037	341
Spelter	12,807	4,136	574
Dust	1,121	1,051	1,250
Sheets, strips, etc.	4,701	3,453	2,464
Oxide	15,748	9,601	4,581
Lithopone	4,068	3,273	3,411
Argentina—			
Slag and ash	791	604	1,084
Bolivia—			
Ores (Zn content)	1,373	5,933	14,438

(a) Information not available.

(b) March–December only.

(c) Zn content.

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Chile—			
Ore	96	4	5
Bars and sheets	—	75	81
Peru—			
Ores, etc. (<i>Zn content</i>) ..	11,573	8,820	96
China—			
Ore	22,205	7,470	8,015
French Indo-China—			
Ore	36,888	27,557	14,459
Spelter and scrap	4,218	3,920	2,568
Sheets	3	2	2
Korea—			
Ore	4,234	2,765	2
Turkey—			
Ore	6,464	3,561	1,526
Spelter, scrap and alloys ..	435	156	137
Sheets, dust and alloys ..	3,292	4,290	—

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

Importing Country and Description	1929	1930	1931
BRITISH EMPIRE			
United Kingdom—			
Calamine	1,300	4,674	1,026
Sulphides	128,989	149,050	73,083
Ashes, etc.	2,085	3,031	2,864
Spelter	136,047	130,593	139,395
Sheets, plates and discs ..	19,680	21,501	22,341
Oxide	12,144	10,474	7,784
Lithopone	21,826	20,605	21,803
Anglo-Egyptian Sudan—			
Zinc-white	5	2	(a)
Kenya and Uganda—			
Bars, plates and sheets ..	15	3	8
Northern Rhodesia—			
Spelter	1	—	11
Southern Rhodesia—			
Spelter	201	139	209
South West Africa—			
Spelter	6	7	2
Tanganyika—			
Bars and sheets	2	4 ^h	—
Union of South Africa (total imports)—			
Spelter and dust	268	342	412
Sheets	1,806	2,072	2,448
Canada—			
Spelter and dust	1,403	1,057	245
Sheets, plates, bars, etc. ..	4,746	3,845	1,972
Zinc-white	8,506	6,507	5,126
Lithopone	8,664	7,166	6,189
British Borneo (Sarawak)—			
Sheets	(£3,341)	(£1,500)	(£516)
British India (total imports)—			
Spelter	6,796	7,780	8,713
Sheets, etc.	2,338	2,138	1,268
Zinc-white	2,358	2,710	2,462
Lithopone	(a)	(b) 366	631
British Malaya (total imports)			
.. .. .	362	352	231
Ceylon—			
Sheets and plates	68	60	38
Palestine (total imports)—			
Spelter and sheets	75	254	100

(a) Information not available.

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

IMPORTS OF ZINC (Cont.)

Importing Country and Description.	1929	1930	1931
BRITISH EMPIRE (Cont.)			
Australia—			
Dust (<i>£ Australian</i>) ..	(£562)	(£1,457)	(£177)
Blocks, sheets, scrap, etc. ..	460	652	557
Oxides	137	76	89
Lithopone	1,328	1,105	850
New Zealand—			
Spelter, bars and sheets ..	208	229	144
FOREIGN COUNTRIES			
Austria—			
Spelter, scrap and alloys ..	8,107	7,861	6,690
Sheets, bars, etc.	737	98	53
Zinc-white and zinc-grey ..	1,618	1,421	1,272
Lithopone, etc.	1,946	1,975	2,444
Belgium-Luxemburg E.U.—			
Ore	600,557	421,468	376,845
Spelter and scrap	6,787	7,002	34,832
Sheets and wire	55	571	851
Dust	22	2,727	100
Lithopone	1,511	1,446	1,439
Oxide	2,110	2,349	1,995
Bulgaria—			
Spelter, bars, sheets and scrap	921	745	808
Czechoslovakia—			
Ore	18,569	20,084	13,402
Spelter, scrap and alloys ..	17,185	12,807	11,416
Sheets and plates	304	162	131
Zinc-white, zinc-grey, etc.	142	203	175
Denmark—			
Spelter and scrap	2,191	2,899	2,274
Plates and sheets	4,085	4,824	4,601
Zinc-white	2,320	2,086	2,065
Lithopone	1,134	1,167	1,293
Estonia—			
Spelter, plates, dust and scrap	80	61	75
Zinc-white	178	197	193
Finland—			
Spelter, sheets and scrap ..	474	427	440
Zinc-white	1,675	1,322	1,394
Lithopone, etc.	316	254	258
France—			
Ore	227,113	282,292	188,491
Spelter, bars and scrap ..	39,544	47,080	58,698
Sheets	576	1,776	2,576
Oxide	1,953	1,446	910
Lithopone	163	152	144

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Germany—			
Ores	176,042	132,051	83,078
Spelter, dust, scrap and alloys	135,096	108,962	117,112
Sheets and wire	7,282	6,925	6,966
Zinc-white and zinc-grey ..	2,818	1,774	654
Lithopone	2,568	3,416	3,570
Greece—			
Spelter	469	513	476
Hungary—			
Spelter and scrap	5,406	4,171	4,050
Sheets	45	32	25
Zinc-white and zinc-grey ..	405	460	149
Lithopone	1,255	1,218	544
Italy—			
Ore and ashes	8	26	1
Spelter, scrap and alloys ..	8,191	5,966	1,893
Sheets, wire, etc., and alloys	6,283	3,993	1,826
Oxide	1,237	610	1,390
Lithopone	2,059	2,107	1,109
Jugoslavia—			
Ore	19,137	11,980	4,285
Spelter and scrap	30	335	400
Bars, sheets, wire, etc. ..	57	58	42
Zinc-white, lithopone, etc.	1,333	1,281	406
Latvia—			
Spelter, sheets and scrap ..	352	423	469
Zinc-white	339	355	255
Lithopone	171	90	43
Lithuania—			
Spelter, sheets and scrap ..	74	133	197
Netherlands—			
Ore	77,186	83,845	53,238
Spelter and scrap	5,383	6,928	8,838
Sheets, wire and dust	9,077	9,099	9,267
Zinc-white	3,891	4,358	3,821
Lithopone	2,012	1,919	1,487
Oxide	7,753	13,598	14,408
Norway—			
Ore	18,400	61,000	73,066
Ashes	265	206	(a)
Spelter	1,072	1,103	1,473
Bars and sheets	1,378	1,746	1,496
Zinc-white	2,126	2,123	(a)

(a) Information not available.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Poland—			
Ores and slag	193,628	204,404	147,413
Spelter, dust and scrap ..	628	24	3
Refined zinc, sheets, etc. ..	168	5	5
Zinc-white and lithopone ..	154	198	100
Portugal—			
Sheets, etc.	642	637	529
Oxide	(a)	76	123
Lithopone	(a)	1,696	447
Roumania—			
Spelter	(a)	2,271	(a)
Sheets and plates	(a)	881	(a)
Zinc oxides	(a)	1,117	(a)
Lithopone	(a)	498	(a)
Russia—			
Spelter, sheets, dust, etc. ..	35,079	39,397	23,285
Spain (total imports)—			
Blende	—	8,331	89
Spelter and scrap	909	993	1,285
Plates, nails and wire	187	77	51
Sweden—			
Ore	7,073	2,768	—
Spelter and scrap	8,756	8,184	8,420
Sheets	2,620	2,809	2,295
Zinc-white	5,631	5,318	5,938
Lithopone	1,942	2,184	1,917
Switzerland—			
Spelter and scrap	7,415	6,467	7,161
Bars, sheets, pipes and wire	1,648	1,692	1,639
Zinc-white, lithopone, etc...	4,204	4,323	4,628
Algeria—			
Ore	1,209	127	1,167
Spelter, bars, sheets and scrap	1,585	1,496	
Belgian Congo—			
Spelter, etc... ..	16	10	3
Egypt—			
Spelter, sheets and scrap ..	300	557	348
Oxide	1,537	1,285	978
Morocco—			
Spelter, sheets and wire ..	158	322	288
Lithopone	59	150	135

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
Mozambique—			
Spelter, bars and sheets ..	141	520	274
Tunis—			
Sheets	232	174	251
Oxide	138	132	132
Costa Rica (total imports)—			
Oxide	6	(a)	(a)
Spelter	4,180	(a)	(a)
Cuba (total imports)—			
Spelter and sheets	90	(a)	(a)
Mexico—			
Spelter and scrap	1,239	971	1,277
Sheets and plates	126	160	(a)
Panama—			
Sheets	194	17	(a)
Zinc-white	83	69	(a)
United States—			
Ore (<i>Zn content</i>)	12,868	23,114	697
Spelter, dust and scrap ..	284	378	246
Pigments (total imports) ..	8,740	7,272	6,288
Argentina—			
Spelter and bars	13,103	8,382	5,459
Sheets and plates	3,102	3,312	2,629
Zinc-white	982	981	1,186
Lithopone	731	801	1,009
Brazil (total imports)—			
Bars, sheets and plates ..	1,214	952	613
Zinc-white	4,916	3,651	3,006
Chile—			
Spelter, bars and sheets ..	2,474	2,711	1,162
Zinc-white, etc.	419	368	71
Colombia—			
Ingots, bars, tubes and alloys	173	150	(a)
Zinc-white	425	164	(a)
Ecuador—			
Spelter, sheets and pipes ..	43	46	25
Peru—			
Spelter, bars, sheets, etc.	59	69	40
Uruguay—			
Sheets	137	121	144
Venezuela—			
Spelter	29	(a)	(a)
Oxide	230	(a)	(a)

(a) Information not available.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1929	1930	1931
FOREIGN COUNTRIES (Cont.)			
China—			
Spelter and dust	945	1,528	1,143
Sheets and plates	1,089	1,385	1,973
Zinc-white	861	1,025	2,011
Formosa—			
Zinc	76	60	(a)
French Indo-China—			
Spelter	13	18	12
Sheets	2,012	1,596	394
Oxide	90	53	30
Japan (total imports)—			
Ore	28,042	18,716	24,507
Spelter	26,683	22,118	20,170
Sheets and plates	3,125	2,760	2,445
Netherlands East Indies—			
Spelter and alloys	928	672	(a)
Zinc-white	2,229	1,688	(a)
Philippine Islands—			
Spelter, bars and sheets ..	106	251	91
Oxide	766	775	596
Siam (total imports)—			
Spelter	338	607	441
Syria and Lebanon—			
Spelter and sheets	269	243	162
Turkey—			
Ore	1	3	10
Spelter, scrap and alloys ..	1	49	40
Bars, tubes, wire and alloys	1,157	925	1,086

(a) Information not available.

LIST OF STATISTICAL PUBLICATIONS.

GENERAL.

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

UNITED KINGDOM.

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

IRISH FREE STATE.

- Trade and Shipping Statistics.

MALTA.

- Customs Trade Statistics.
 Quarterly Customs Trade Returns.

ANGLO-EGYPTIAN SUDAN.

- Customs Returns.

GAMBIA.

- Annual Blue Book.

GOLD COAST.

Annual Report on the Mining Industry.
Annual Blue Book.

KENYA AND UGANDA.

Trade Report.

MAURITIUS.

Annual Blue Book.

NIGERIA.

Annual Report of the Mines Department.
Annual Blue Book.

NORTHERN RHODESIA.

Annual Report of the Rhodesia Chamber of Mines.

NYASALAND.

Annual Blue Book.

SEYCHELLES.

Trade Report.

SIERRA LEONE.

Annual Blue Book.

SOMALILAND.

Colonial Report.

SOUTHERN RHODESIA.

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

TANGANYIKA TERRITORY.

Annual Blue Book.
Annual Report of Mines Department.

UNION OF SOUTH AFRICA.

Union.

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

South West Africa.

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

ZANZIBAR.

Annual Blue Book.

BRITISH GUIANA.

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

BRITISH HONDURAS.

Annual Blue Book.

CANADA.

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

NEWFOUNDLAND.

Customs Returns.

BRITISH WEST INDIES.

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

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

BRITISH BORNEO.

Brunei.

Annual Report on the State of Brunei.

Sarawak.

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

State of North Borneo.

Annual Report on the Territorial Customs Department.

BRITISH MALAYA.

Returns of the Imports and Exports.

Federated Malay States.

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

CEYLON.

Trade and Customs Returns.

CYPRUS.

Annual Blue Book.

INDIA.

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

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

PALESTINE.

Statistics of Imports, Exports and Shipping.
Annual Blue Book.

AUSTRALIA.

Commonwealth.

Summary of Australian Production Statistics.

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

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

New South Wales.

Annual Report of the Department of Mines.

Victoria.

Gold and Mineral Statistics.

Queensland.

Annual Report of the Under Secretary for Mines.

Western Australia.

Annual Report of the Department of Mines.

Tasmania.

Annual Report of the Secretary for Mines.

South Australia.

Mining Review ; Department of Mines.

Papua.

Annual Report.

FIJI.

Annual Blue Book.

NEW ZEALAND.

Annual Mines Statement.

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

Western Samoa.

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

AUSTRIA.

Mitteilungen über den österreichischen Bergbau.
Statistik des auswärtigen Handels Österreichs.
Monatshefte der Statistik des Außenhandels Österreichs.

BELGIUM.

Statistique des Industries Extractives et Métallurgiques.

BELGIUM-LUXEMBURG ECONOMIC UNION.

Bulletin Mensuel du Commerce avec les Pays Etrangers.

BULGARIA.

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

CZECHOSLOVAKIA.

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

DENMARK.

Danmarks Vareindførsel og -Udførsel.
Vareomsætningen med Udlandet.

ESTONIA.

Väliskaubandus (Commerce Extérieur de l'Estonie).

FINLAND.

Industristatistik.
Finlands Utrikeshandel.

FRANCE.

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

GERMANY.

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

GREECE.

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

HUNGARY.

Bulletin Statistique Mensuel Hongrois.

ICELAND.

Verzlunarskyrslur-Gefid út af Hagstofu Islands.

ITALY.

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

JUGOSLAVIA.

Statistique du Commerce Extérieur du Royaume des Yougoslavie.

LATVIA.

Commerce extérieur et transit de la Lettonie.

LITHUANIA.

Annuaire Statistique de la Lithuanie.
Statistikos Biuletenis.

LUXEMBURG.

Les industries extractives du Grand-Duché de Luxembourg.

NETHERLANDS.

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

NORWAY.

Norges Bergverksdrift.
Norges Handel.

POLAND.

Annuaire Statistique de la République Polonaise.
Production Industrielle.
Rapports Mensuels du Commerce Etranger.
Annuaire du Commerce Extérieur de la République Polonaise et de la
Ville Libre de Dantzig.

PORTUGAL.

Estatística Comercial.

ROUMANIA.

Statistica Miniera a României.
Comerțul Exterior al României.

RUSSIA.

Vneshnyaya Torgovlya S.S.R. (Monthly Trade Review).

SPAIN.

Estadística Minera de España.

Estadística del Comercio Exterior de España.

SWEDEN.

Industri och Bergshantering Berättelse av Kommerskollegium.
Sveriges Handel.

SWITZERLAND.

Statistique du Commerce de la Suisse avec l'Etranger.

ALGERIA.

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

ANGOLA.

Estadística Comercial ; Direcção dos Serviços Aduaneiros.
Boletim d'Agencia Geral das Colonias.

BELGIAN CONGO.

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

EGYPT.

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

FRENCH POSSESSIONS IN AFRICA.

L'Agronomie Coloniale.

Annuaire Economique Colonial ; Institut Colonial de Marseille.

Renseignements Généraux sur le Commerce des Colonies Françaises
et la Navigation.

Statistiques du Mouvement Commercial et Maritime du Maroc
(Protectorat Français et Zone de Tanger).

Bulletin Mensuel de l'Agence Economique de l'Afrique Occidentale
Française.

Bulletin Economique de l'Afrique Equatoriale Française.

Togo-Cameroun Magazine Trimestriel.

MADAGASCAR.

Bulletin Économique Mensuel de Madagascar.

Bulletin des Mines.

L'Agronomie Coloniale.

MOZAMBIQUE.

Colonia de Mocambique ; Estatística do Comércio e Navegação.

PORTUGUESE GUINEA.

Relatório e Mapas do Movimento Comercial e Marítimo.

TUNIS.

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

COSTA RICA.

Anuario Estadístico.

CUBA.

Comercio Exterior.

GUATEMALA.

Boletín de Aduanas.

MEXICO.

Anuario de Estadística Minera.
Estadística Nacional.

NICARAGUA.

Report of the Collector General of Customs, Managua.

PANAMA.

Dirección General de Estadística ; Sección Comercial-Económica.

SALVADOR.

Estadística Comercial.

UNITED STATES.

Mineral Resources of the United States ; United States Geological Survey.
Annual Report of the Director of the Mint.
Foreign Commerce and Navigation of the United States.
Monthly Summary of Foreign Commerce of the United States.
Annual Statistical Report of the American Iron and Steel Institute.

ARGENTINA.

El Comercio Exterior Argentino.
Anuario del Comercio Exterior de la Republica Argentina.
Estadística minera de la Nación.

BOLIVIA.

Comercio Especial de Bolivia.

BRAZIL.

Comercio Exterior do Brasil.

CHILE.

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

COLOMBIA.

Comercio Exterior de Colombia.

ECUADOR.

Boletin de Hacienda.

PERU.

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

URUGUAY.

Boletin del Ministerio de Hacienda.
Anuario Estadístico de la República Oriental del Uruguay;
Comercio Exterior.

VENEZUELA.

Memoria del Ministerio de Fomento.
Estadística Mercantil y Marítima.

CHINA.

Foreign Trade of China.

FORMOSA.

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

FRENCH INDO-CHINA.

Bulletin Economique de l'Indochine.

FRENCH PACIFIC POSSESSIONS.

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

IRAQ.

Administrative Report of the Department of Customs and Excise.

JAPAN.

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

KOREA (Chosen).

Table of Trade and Shipping of Chosen.

NETHERLANDS EAST INDIES.

Jaarboek van het Mijnwezen in Nederlandsch-Oost-Indië.
Jaaroverzicht van den In-en Uitvoer van Nederlandsch-Indië.

PERSIA.

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

PHILIPPINE ISLANDS.

Annual Report of the Insular Collector of Customs.

SIAM.

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

SYRIA AND LEBANON.

Statistiques Générales du Commerce Extérieur des Etats du Levant
sous Mandat Français.
Bulletin Economique Trimestriel des Pays sous Mandat Français.

TURKEY.

Statistique Annuelle du Commerce Extérieur de la Turquie.
Statistique Mensuelle du Commerce Extérieur de la Turquie.

IMPERIAL INSTITUTE.

MONOGRAPHS ON MINERAL RESOURCES.

(To be obtained from the Imperial Institute, South Kensington, S.W.7.)

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