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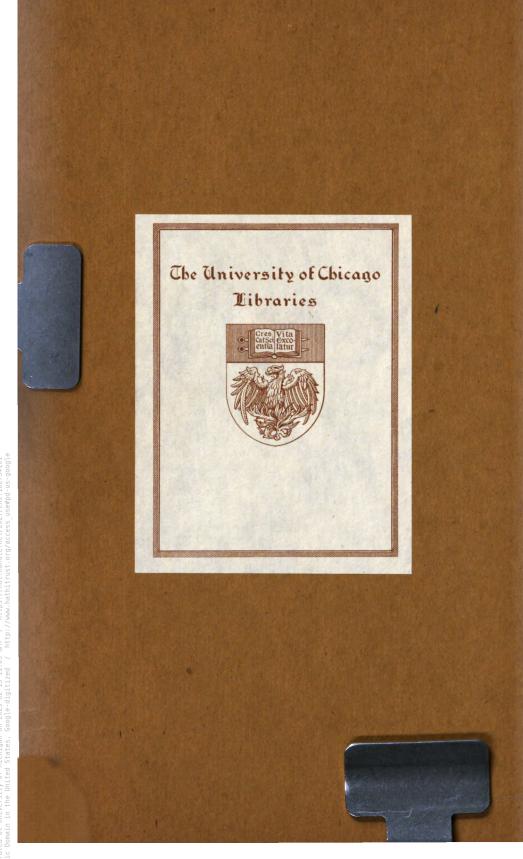
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THE MINERAL INDUSTRY OF THE BRITISH EMPIRE

AND

FOREIGN COUNTRIES.

WAR PERIOD.

TALC.

(1913-1919.)



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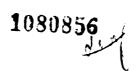
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PREFACE.

The following digest of statistical and technical information relative to the production, consumption and value of Talc will form a part of the volume or volumes on the Mineral Resources of the British Empire and Foreign Countries constituting the Annual Mineral Conspectus of the Bureau.

In this, the first year of publication, an effort has been made to fill in as far as possible, the hiatus due to the war in the publications relating to mining and metallurgical statistics. Labour, health and safety statistics have been omitted owing to the difficulty involved in procuring reliable information for the war period, but in future issues these statistics will be included in respect of each year. Resort will also be had to graphical representation of statistics of production, consumption, costs, and prices.

The weights are expressed in long tons, that is to say, the British statute ton of 2,240 lb., and values in pounds, shillings and pence at par rates of exchange.

Dr. F. H. Hatch, a Governor of the Imperial Mineral Resources Bureau, is Chairman of the Advisory Technical Committee which has revised this work.

R. A. S. REDMAYNE,
Chairman of the Governors.

2, Queen Anne's Gate Buildings, London, S.W.1.

July, 1921.

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GENERAL.

Talc is a hydrated silicate of magnesium. It has a specific gravity about 2.7, is very soft, and has a characteristic soapy feel. Ordinary talc is foliated, but the laminæ, though flexible, are not elastic. In colour it varies from white, grey-green, apple-green, to dark green. It is not acted upon by ordinary acids and is a bad conductor of heat and electricity. When heated it loses a small amount of water, hardens, and can then be polished.

The compact, fine-grained variety of talc is known as steatite or soapstone. It is usually grey in colour and has a crystalline structure. A comparatively impure variety is known as potstone.

Much of the talc or steatite of commerce is the mineral pyrophyllite, a hydrated silicate of aluminium; it is somewhat harder than talc, but otherwise closely similar in its physical characters.

The name agalmatolite is applied loosely to both steatite and pyrophyllite.

Talc is subjected to careful sorting at the mine. Pieces which by their texture and colour are suitable for cutting, are set aside for subsequent sawing into slabs from which are manufactured lava-tip gas burners, and tailors' crayons and pencils. A large amount is used in the form of sticks and pencils for marking purposes in iron and steel works. The residue is usually sorted and graded according to the colour of the material, but some mines prefer to sort to one uniform standard, discarding all varieties of colour other than that selected.

Dressing operations consist of crushing, grinding and grading. Simple screening is the method generally adopted for grading. Latterly considerable attention has been given to pneumatic separation, and many separators have been devised to work by this method.

Probably 90 per cent. of the talc mined is ground to flour and used in the manufacture of paper, moulded rubber goods, and foundry facings. Only the highest grades of white talc can be used for toilet preparations such as talcum powder. Very high-grade talc powder is used in medicine. Other important uses for ground talc of good grade are in the manufacture of French chalk and soap, and for lubricating purposes. It is also used as a filler in the manufacture of certain classes of linen and cotton fabrics. Talc has a considerable power of absorption and this property is utilized in bleaching cotton goods and for

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Commercial ground talc must be free from impurity. The objectionable minerals are quartz, unaltered amphibole, pyroxene, iron ore, iron pyrites, calcite and dolomite.

The use of tale, particularly the fibrous variety, as a filler in the manufacture of paper of nearly every grade is rapidly extending. Paper made from any of the ordinary materials, whether rags, waste cotton, wood pulp, or chemically prepared woods and straws, requires sizing before it can be used for writing or printing. The materials generally used for sizing are starch, resin or glue. Such sized paper is, however, transparent, and it is customary to render the paper opaque by filling with China clay or other materials. Tale is now largely used in the manufacture of all kinds of opaque paper, especially in the United States.

Soapstone, on account of its resistance to acids, is largely used for the manufacture of laboratory sinks, table tops, and tanks. Owing to its refractoriness it is used for lining stoves and furnaces. For use in this way the stone should be well seasoned, or mined from dry seams, and should be free from impurities, such as pyrites. As a bad conductor of electricity, steatite is used extensively for panelling switchboards, for flooring, and in electric plants.

WORLD'S PRODUCTION.

The United States is the leading producer and consumer of talc and soapstone. Before the war France stood second in the list of producing countries and Italy third. The larger part of the French and Italian output was a high-grade product, suitable for toilet preparations, gas-tips, &c., and there does not seem to have been any great demand for lower-grade material. The uses to which lower-grade talc and soapstone can be put have increased largely during the last few years. Increasing quantities of medium-grade fibrous talc are consumed in paper-making, and the rubber industry is constantly requiring large supplies.

In Germany, Austria and the United States, medium-grade talc is extensively used, but in nearly all the other producing countries only the highest grade of talc or special quality soapstone is mined, as the lower-grade material will not stand high transportation charges. The large deposits of talc and soapstone known to exist in Spain, Brazil, Uruguay, India, Japan and

China, are little worked, as there is only a small demand in those countries for the medium and low-grade product.

In the United States, before the war, crude talc was worth from £1 to £2 per ton at the factory; since that date prices have risen considerably. In 1914 the British prices of French chalk were from £3 to £7 per ton. In 1919 the prices ranged from £5 to £16 per ton. The highest grades of talc suitable for toilet purposes, insulators, gas tips, &c., were sold at from £20 per ton upwards.

World's Production of Talc.
(long tons).

	,						
	1913.	1914.	1915.	1916.	1917.	1918.	1919.
United Kingdom Union of South	40	180	850	301	1,233	936	688
Africa	-		39	118	746	652	788
Canada	10,937	9,650	10,612	11,700	14,110	16,222	16,645
India	2,524	999	1,077	1,214	7,829	12,983	2,040
Australia	104	80	60	387	234	619	622*
Austria (exports)	7,953	6,093	5,883	5,668	3,866		
France	59,208			ĺ	·	56,660	
Bavaria	1	1,707	1,814	1,867	2,136	9,158	
Italy	44,622	41,343	45,135	52,557	41,989	34,910	34,176
Norway (exports)	2,392	3,147	3,355	6,282	2,896	,	'
Spain	4,336	4,538	948	3,504	3,395	3,275	2,975
United States	156,994	153,836	166,867	190,144	195,400	185,988	168,000
	ι		·	L	·	L	

* Provisional figure.

BRITISH EMPIRE.

The talc-producing countries within the Empire are the United Kingdom, Canada, India, Australia and South Africa. Deposits of talc are reported as occurring in Jamaica and in New Zealand, but there has been no recorded production from either of these two countries during the period under review. The "talc" of Newfoundland is really pyrophyllite.

During the war the shortage of high-grade French talc directed considerable attention to the Empire deposits, and in each producing country output was increased. During the period under review there was a strong demand in the United States for Canadian talc. This was met chiefly by increased production from the existing mines, no new deposits of importance being opened up. In the year 1915, South Africa entered the list of talc-producing countries. Important deposits are now being

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United Kingdom.*

Small veins of steatite and talc occur in Cornwall, notably in the neighbourhood of Kennack, Mullion, Kynance and Pentreath. Steatite was formerly mined at Wheal Foss, 1½ mile south of Mullion, and at Gew Graze in the same district, but very little was mined in Cornwall during the period under review.

Rocks consisting mostly of talc are widely distributed in the metamorphic rocks of Scotland. Material from Dunoon in the Cowal district, Argyllshire, is worked at Kilsyth. Steatite occurs in the chlorite schists at Klebber Geo in the extreme north of Shetland. The deposit was formerly quarried on a small scale, but the locality is so remote as to render the deposit of no economic value.

An output of 100 tons of talc was reported as having been quarried in the Island of Fetlar in the Shetlands in the year 1914. The talc occurs in veins 4 to 7 feet in thickness in talc schists. The rock obtained was transported by boat to Lerwick and ground in mills at Bonnybridge near Falkirk. Difficulties of transport arising from the war rendered the undertaking unprofitable and the quarry closed down.

Talc is also reported as occurring in Balta and Unst Islands in Shetland, at Eilean Glas in Harris, and on the shores of Loch Alsh near Ardintoul. There are many outcrops of talc-schists in the Highlands, but the mineral carries too many impurities to be of value for industrial purposes.

Deposits of talc and soapstone of economic value are found in many counties of Ireland, notably Donegal, Mayo and Wicklow. The only deposits which have been worked continuously during the period under review are those at Crohy Head near Dungloe, and Garton near Churchill, both in county Donegal.

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^{*} Mines and Quarries: General Report with Statistics, Part III., by the Chief Inspector of Mines (Annual). Annual Statements of the Trade of the United Kingdom. Special Reports on the Mineral Resources of Great Britain, Mem. Geol. Surv., 1917, 5, 36.

Production of Talc in the United Kingdom.

Year.				Quantity (long tons).	Value (\pounds) .
1913	•••			40	30
1914	•••			· 1 80	90
1915		• • •		850	575
1916	•••			301	404
1917	•••	•••		1,233	1,742
1918	•••	•••		936	1,26 8
1919	•••	•••	•••	68 8	1,011

Imports of Talc, French Chalk, Steatite, Mineral White, Silica and Soapstone into the United Kingdom.

From	Quantity (long tons).								
	1913.	1914.	1915.	1916.	1917.	1918.	1919.		
Austria-Hungary France Italy United States Other Foreign Countries	744 4,983 2,483 254 1,682	6,629 2,651 233	3,629 2,134	3,667 3,356	2,030 1,242	1,422 169	1,811 1,025		
Total from Foreign Countries.	10,146	11,282	13,550	15,099	12,774	15,183	11,741		
'Total from British Possessions.	1,068	693	561	71	11		102		
TOTAL	11,214	11,975	14,101	15,170	12,785	15,183	11,843		
			•	Value (£).	<u> </u>			
Austria-Hungary France Italy United States Other Foreign Countries	3,995 17,711 12,995 1,661 5,439	21,253 13,916	19,547 16,165	21,128 27,806	18,455 13,099	2,695	— 71,754 27,628 11,793 12,722		
Total from Foreign Countries.	41,801	44,477	62,745	82,247	77,278	144,022	123,897		
Total from British Possessions.	6,015	4,362	3,917	855	191		1,265		
TOTAL	47,816	48,839	66,662	83,102	77,469	144,022	125,162		

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Exports of Talc, French Chalk, Steatite, Mineral White, Silica and Soapstone from the United Kingdom.

(Foreign Produce.)

_	Quantity (long tons).									
То	1913.	1914.	1915.	1916	1917.	1918.	191 9 .			
Russia Other Foreign Countries		32 275	146 326	271 391		<u></u>	79			
Total to Foreign Countries	375	307	472	662	117	81	79			
Total to British Possessions	169	290	352	173	80	37	44			
TOTAL	544	597	824	835	197	118	123			
•	Value (£).									
Russia Other Foreign Countries	2,102	281 2,242	1,502 1,999	3,083 2,340	1,142	1,405	 1,321			
Total to Foreign Countries	2,102	2,523	3,501	5,423	1,142	1,405	1,321			
Total to British Possessions	1,315	1,776	2,233	1,242	711	688	993			
TOTAL	3,417	4,299	5,734	6,665	1,853	2,093	2,314			

Rhodesia.*

Soapstone or massive talc occurs frequently in the older crystalline rocks of Southern Rhodesia. Large deposits occur in all the principal mining districts, often close to the railway lines. output has so far been recorded, although many claims have been staked.

Union of South Africa. †

Talc is widely distributed in the older rocks of the Union of South Africa. Previous to 1914 the only output was that from prospecting operations, but during the war there sprang up an important industry which is now capable of supplying practically all local needs, and possibly also a considerable export trade when shipping facilities again become normal.

Large bodies of high-grade to medium-grade talc occur and are mined in the Transvaal, notably at the Verdite Mine, which is situated in the Barberton district about three miles north-west of

* The Mineral Resources of Rhodesia, by F. P. Mennell. S. Afr. Journ.

Ind., 1918, 1, 1417.

† Annual Reports of the Government Mining Engineer for the Union of South Africa. Report on certain Minerals used in the Arts and Industries.

The Town Ind. 1918, 1, 903-909. Tale, by T. G. Trevor, P. A. Wagner, South Afr. Journ. Ind., 1918, 1, 903-909. Talc, by T. G. Trevor, South Afr. Journ. Ind., 1920, 3, 534.

Noordkaap Station on the Barberton railway. The Verdite Mine was formerly worked for the gold content of the ore only, but the gold is now a by-product in talc-mining. The talc occurs as nearly vertical bands in the ultra-basic rocks of the Jamestown Series. These bands often attain a thickness of 15 feet. The quality of the talc varies. The highest grade is a pale green sub-translucent rock with a fibrous structure. When ground it is used for toilet and medicinal purposes. The lower-grade talc is quite opaque, of a dark green colour, and is frequently associated with gold. Part of the talc mined is cut into blocks for the manufacture of acetylene gas burners, pencils, &c. The ground material is suitable for all the purposes for which ground talc is used.

About the year 1918, the Scotia talc mine was opened up on the Kaap River in the Barberton district. The deposits on this property consist of a series of beds of high-grade talc which have The beds now being mined a total thickness of about 400 feet. vary in thickness from 10 to 25 feet. They are composed of foliated or grey to translucent green talc of good quality. A new plant capable of handling 500 tons a month has been erected at a distance of about two miles from the mine. The crushed mineral is pulverized, and a product obtained which varies in fineness from 30,000 to 90,000 screen size. Material ranging from 30,000 to 80,000 screen size is sold for foundry and other Only the finest powder is used for medicinal industrial uses. and toilet preparations.

Other important tale deposits are situated between Eureka Siding and Jamestown, and tale is also being ground in Johannesburg from the taleose schists of the Krugersdorp district.

In addition to these, a grade of ground talc suitable for covering boilers and steam pipes is being produced from a talc-tremolite rock occurring near Pomeroy in Zululand.

Production and Sales of Talc in Union of South Africa.	Production	and	Sales	of	Talc	in	Union	of	South	Africa.
--	------------	-----	-------	----	------	----	-------	----	-------	---------

					Production.	Sales and S	Shipments.		
		Year.			Quantity (long tons).	Quantity (long tons).	Value (£).		
1915		•••				39	218		
1916			•••			118	586		
1917		•	•••		746	701	1,962		
1918	•••	•••	•••		652	598	1,713		
1919	•••	•••	•••	•••	788	676	3,102		
1919	•••	. •••	•••	•••	100	010			

Note.—With the exception of 11 tons, value £33, from Natal in 1918, the whole of the production was from the Transvaal. The value for 1919 includes £932 for steatite obtained from quarries in Natal; the quantity is not stated.

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Canada.*

The talc-mining industry in Canada made considerable progress during the period under review. Several small mines are operated in Quebec and British Columbia, but the chief output is from Madoc, in Hastings county, Ontario, where the deposits occur in a crystalline limestone of the Grenville series.

The talc is of good quality, and the deposits frequently attain a thickness of 25 to 40 feet. Mining operations have now reached a depth of over 250 feet without any alteration in the character of the deposits. The larger part of the talc produced is ground at Madoc and exported to the United States.

Production of Talc in Canada.

			le.†	Refine	ed.†	Total.		
Yes	ır.	Quantity (long tons).	Value* (£).	Quantity (long tons).	Value* (£).	Quantity (long tons).	Value* (£).	
1913	•••			_		10,937	9,579	
1914	•••	_ '		-	_	9,650	8,420	
1915		10,612	8,449	-		10,612	8,449	
1916	•••	11,653	10,120	47	177	11,700	10,297	
1917	•••	11,772	10,804	2,338	5,142	14,110	15,946	
1918		11,403	9,895	4,819	14,938	16,222	24,833	
1919	•••	10,931	10,224	5,714	14,004	16,645	24,228	

[†] Not recorded separately prior to 1915.

Imports, Exports, and Sales of Talc in Canada.

			Import	s (a).	Exports (b).	Total refine	d sold (c).
`	Year.		Quantity (long tons).	Value* (£).	Value* (£).	Quantity (long tons).	Value* (£).
1913	•••		359	2,230		l _ l	
1914	•••	•••	521	1,871	_	_	_
1915	•••		137	389	_	6,025	16,167
1916	•••	•••				7,320	20,530
1917	•••	•••	_		27,424	12,235	35,789
1918	•••		_		43,396	14,199	46,285
1919	•••	•••	! _	_	43,781	14,221	48,958

⁽a) Not recorded separately since 1915.

(b) Not recorded prior to April, 1917.

^{*} Values converted to £ sterling at the rate of 1 dollar = 4s. 2d.

⁽c) Product of Canadian plants; not stated prior to 1915.

^{*} Values converted to £ sterling at the rate of 1 dollar = 4s. 2d.

^{*} Annual Reports of the Ontario Bureau of Mines, Toronto; Annual Reports on the Mineral Production of Canada, Ottawa; Annual Statements of the Trade of Canada, Ottawa.

Imports of Refined Talc into Canada (a). Fiscal years ending March 31.

			Quantity (long tons).							
From			1913.	1914.	1915.	1916.				
United Kingdom	•••	•••	112	172	72	_				
Austria-Hungary Italy United States Total	•••		137	3 - 287 462						
				Value	(£).*					
United Kingdom	•••	•••	842	1,327	548	-				
Austria-Hungary Italy Switzerland United States	•••	•••	1 495	18 - 1,062	- 24 - 792	307				
Total	•••	•••	1,338	2,407	1,364	307				

⁽a) Not recorded separately after March 31, 1916.

Newfoundland.

At Talc Mountain and at Fox Trap, near Manuels, Conception Bay, there are extensive deposits of pyrophyllite, which have been quarried on a considerable scale. The material is described as talc in the Customs returns. Soapstone of good quality has been found in many of the serpentine areas of the west coast, and in Labrador.

India.*

Talc is widely distributed among the crystalline rocks of India, where the recorded production has increased considerably during the period under review. The figures do not show the total amount quarried, as there is throughout India a considerable local production which cannot be accurately determined. The chief output is from the Marble Rocks near Jubbulpore in the Central Provinces, where the steatite occurs in limestone. It is slightly schistose and varies in colour from white to pale green. A special plant for grinding the steatite from these quarries has been erected at Jubbulpore.

^{*} Values converted to £ sterling at the rate of 1 dollar =4s. 2d.

^{*} Records of the Geol. Surv. of India. A Bibliography of Indian Geology and Physical Geography, by T. H. D. La Touche; Geol. Surv. India, 1918, pp. 456-465. Annual Statements of the Sea-borne Trade of British India.

Generated at University of Michigan on 2023-02-13 11:09 GMT / https://hdl.handle.net/2027/chi.102734101 Public Domain in the United States, Google-digitized / http://www.hathitrust.org/access use#pd-us-google Other localities where steatite is quarried are Singhbhum and Mayurbhanj in Bihar and Orissa; Bellary, Nellore, and Salem in Madras; and Hamirpur and Jhansi in the United Provinces. There is a small production of steatite from the mines on the Arakan Yoma and from those near Hpa-aing in the Minbu district of Burma.

The Records of the Indian Geological Survey show that there are large deposits of pure steatite at Dogetha north-east of Raialo in Jaipur state, Rajputana. In the Dogetha deposit the steatite is milk-white or faintly tinged with green. It occurs in a bed more than 30 yards wide and has been opened up over a length of only 50 to 60 yards. At Morra in the same province there is an occurrence of pale-green finely-crystalline steatite. The deposit extends for a considerable distance, the steatite occurring in pockets. The stone has been quarried and transported to Agra and Delhi for the manufacture of ornamental carvings.

In Idar State steatite occurs associated with asbestos between Dev Meri and Kundel and also at Ghanta. The mineral is of fair quality and it is stated that at the first-named locality there are over two million tons in sight and within easy reach.

Production of Talc in India.

Year.			Quantity (long tons)	i.	Value (£).
1913			$2,\!524$	•••	6,700
1914			999		4,131
1915			1,077	• • •	2,578
1916			$1,\!214$	•••	2,628
1917		•••	$7,\!829$	• • •	6,470
191 8	•••		12,983		10,921
1919	• • •		2,040		5,283

Imports of Talc into India.

Fiscal years ending March 31.

_	Quantity (long tons).								
From	1914.	1915.	1916.	1917.	1918.	1919.			
United Kingdom	33	92	117	64	15	10			
Austria-Hungary France Italy Other Foreign Countries	32 273 19 22	8 49 12 10		=	- - -	_ _ _ 1			
Total from Foreign Countries.	346	79	41	_		1			
TOTAL	379	171	158	64	15	11			

Imports of Talc into India—continued.

_	Value (£).						
From.	1914.	1915.	1916.	1917.	1918.	1919.	
United Kingdom	271	652	1,015	729	325	393	
Austria-Hungary France Italy Other Foreign Countries	128 1,252 147 97	60 235 93 36	341 —	_ _ _	- -	— — — 61	
Total from Foreign Countries.	1,624	424	341		2	61	
Total	1,896	1,076	1,356	729	327	454	

NOTE.—In addition to the above, talc to the value of £1 was imported from the Straits Settlements in 1914.

Australia.*

Very little talc or steatite is mined in any of the States of the Commonwealth.

Steatite is reported to occur in large quantities around Wallendbeen in the Murrumburrah mining division of New South Wales, where a deposit of iron-stained steatite was mined during the period under review. The mineral appears to be of poor quality. The total production from the two properties worked never exceeded a few hundred tons yearly.

In South Australia, small quantities of talcose material suitable for use in the manufacture of fire-grates, stoves, etc., have been mined at Talunga, three miles from Gumeracha. There is a small output of high-grade talc from the Yaranyacka talc mine in the hundred of Yaranyacka, $2\frac{1}{2}$ miles west of Lipson. In Victoria, the only recorded output during the period under review was 47 tons in the year 1916 from the Heathcote division.

^{*} Annual Reports of the Department of Mines, New South Wales. Review of Mining Operations in South Australia. Annual Reports of the Secretary for Mines, Victoria.

Production of Talc in Australia.

	New South Wales.		South Australia.		Victoria.		Total.	
Year.	Quantity (long tons).	Value (£).	Quantity (long tons).	Value (£).	Quantity (long tons).	Value (£).	Quantity (long tons).	Value (£).
1913 1914 1915 1916 1917 1918	54 80 60 237 234 309 358	45 80 60 237 234 325 560+	50 — 103 — 310 264	250 — — 309 — 603 865	47		104 80 60 387 234 619 622	295 80 60 546* 234 928 1,425‡

^{*} Value of 340 tons only.

FOREIGN COUNTRIES.

Austria.

Before the war Austria produced important quantities of talc and soapstone from the deposits situated in the communes of Mautern, Aflenz, Anger, Pallau, St. Kathrein and Floing in the province of Styria. The talc produced was of high grade and large quantities were exported annually to Germany for paper making.

The production of talc during the year 1917 is estimated at 13,000 tons.

Imports and Exports of Talc into and from Austria.

			Imports.	Exports.
Year.			Quantity (long tons).	Quantity (long tons).
1913		 	 1,639	7,953
1914		 • • •	 1,437	6,093
1915	• • •	 •••	 452	5,883
1916		 • • •	 63	5,668
1917		 • • •	 152	3,8 66
1918		 		
1919		 •••		

France.*

The principal deposits of talc in France are in the department of Ariège, which produces 85 per cent. of the French output. Important deposits are worked at Montferrier in the Pyrenees

^{† &}quot; " 335 " " ‡ " " 599 " "

^{*} Le Commerce de la France (Annual).

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close to the Spanish frontier, and at Luzech. Other talc-producing localities include Luzenac near Cette and various places in the departments of Pyrénées-Orientales, Isère, Aude, Savoie, and Loire. There is also a small production from the island of Corsica.

French Imports and Exports of Ground Talc.

				Impo	rts.	Expo	Exports.		
	Y	ear.		Quantity (long tons).	Value* (£).	Quantity (long tons).	Value* (£).		
1913	•••	•••	•••	5,457	10,520	11,312	26,200		
1914				3,643	8,440	8,611	16,640		
1915	•••	•••		4,057	15,680	7,452	23,040		
1916	•••			7,756	29,960	6,558	20,280		
1917	•••			3,362	18,160	3,842	17,800		
1918	•••			1,182	6,400	15,301	70,920		
1919	•••	•••	•••	6,316	33,400	9,464	42,320		

^{*} Values converted to £ sterling at the rate of 25 francs = £1.

Germany.

Talc is mined at Göpfersgrün, near Wunsiedel in Bavarıa It is from these deposits that nearly the whole of the German output of talc has been obtained.

Production of Steatite in Bavaria.

Year.					(Quantity (long tons).
1913						
1914					• • •	1,707
1915			• • •			1,814
1916	•••	• • •			•••	1,867
1917		• • •	•••		• • •	$2,\!136$
1918	•••	• • •	• • •	• • •	•••	$9,\!158$
1919	• • •		•••		• • •	

Italy.*

The talc deposits of chief importance in Italy occur near Pinerolo, south-west of Turin. In this district there are many small mines and quarries. The rock obtained is hand-picked and broken into small sizes before being sent to the mill for grinding. It is worked cheaply on account of the use of water power and cheap labour. The principal product shipped is high-grade ground talc and massive cut talc.

^{*} Rivista del Servizio Minerario (Annual). World Resources of Talc and Soapstone, by R. B. Ladoo; Can. Min. Journ., 1919, 40, 914-915.

Italian talc is fine-grained, and is used largely for toilet and medicinal purposes.

Italian Production and Exports of Talc.

Year.	Product		Product Ground		Exports of Talc.	
1 ear.	Quantity (long tons).	Value* (£).	Quantity (long tens).	Value* (£).	Quantity (long tons).	Value* (£).
1913 1914 1915 1916 1917 1918 1919	23,615 22,117 23,546 27,041 21,512 17,820 17,268	34,435 32,006 33,814 48,370 69,962 94,177 91,260	21,007 19,226 21,589 25,516 20,477 17,090 16,908	58,419 53,255 64,071 77,447 118,101 145,798 140,909	18,276 19,200 18,968 20,971 10,419 4,339 9,332	59,440 62,445 61,690 80,993 61,416 25,578

^{*} Values converted to £ sterling at the rate of 25 lire = £1.

Norway.*

Talc is produced in Norway chiefly in the provinces of North and South Bergenhus. The principal mills for grinding talc are situated at Sognefjord, north of Bergen, and in Cistesto, Vikor, south of Bergen.

Soapstone is mined at Gudbrandsdal, and used for interior

architectural decorative work.

Exports of Talc and Steatite from Norway.

Year.	Quantity (long tons).	$egin{array}{c} ext{Value*} \ (\pounds). \end{array}$
1913 1914 1915 1916 1917 1918	2,392 3,147 3,355 6,282 2,896	5,565 4,946 5,855 16,919 8,952
1919	i	

^{*} Values converted to £ sterling at the rate of 18.6 kroner = £1

Spain. †

The Spanish production of talc is obtained chiefly from various mines to the north of Figueras, on the south side of the Pyrenees, and in the province of Gerona.

 ^{* &}quot;Norges Bergverksdrift" (Annual), Kristiania.
 † Estadistica Minera de España (Annual).

Generated at University of Michigan on 2023-02-13 11:09 GMT / https://hdl.handle.net/2027/chi.102734101 Public Domain in the United States, Google-digitized / http://www.hathitrust.org/acces_use#pd-us-googl There is also an extensive deposit of talc of good quality in the province of Almeria, about 45 miles from the port of Aguilas. This talc compares favourably with the best Italian grades.

Production of Talc in Spain.

				_	
Year					Quantity (long tons)
1913	•••		•••		4,336
1914	•••				4,538
1915	•••	•••	•••		948
1916	•••	• • •			3,504
1917	•••				3,395
1918			•••		3,275
1919.	•••				$2,\!975$

United States.*

The production of talc and steatite in the United States, is chiefly from the belt of crystalline rocks extending almost continuously from Vermont to Georgia. Along this belt there are nine producing States, namely, New York, Vermont, Georgia, Maryland, Massachusetts, New Jersey, North Carolina, Pennsylvania, and Virginia. New York has long been the premier talc-producing State. The industry is centred in the Gouverneur district in St. Lawrence County, within which nearly all the producing The mineral occurs in beds from a few inches mines are situated. up to 20 feet in thickness intercalated in a schistose limestone. The talc obtained is partly fibrous and partly foliated. It is pure white in colour and yields a high-grade material suitable for toilet purposes and paper manufacture.

Vermont ranks next to New York State as regards the total value of its talc production. The talc belt extends from Johnson to Athens over a distance of a hundred miles. The principal centres of production are situated in the towns of Chester, Rochester and Waterbury. A little high-grade talc suitable for the manufacture of gas tips, talcum powder and pencils is mined in North Carolina and Georgia, and Virginia produces a considerable tonnage of talc from the talc-schists of the northern part of the State.

The Californian production increased considerably during the period under review. The talc belt is situated in San Bernardino county. The mineral is for the most part white and lies on the contact of diorite and limestone. It is used chiefly in the manufacture of tiles. The output of New Jersey and Pennsylvania is obtained from quarries situated on either side of the Delaware river, in the vicinity of Easton. The talc is associated with serpentine, which gives it a green

^{*} Mineral Resources of the United States (Annual). The Mineral Industry, Annual.

Generated at University of Michigan on 2023-02-13 11:09 GMT / https://hdl.handle.net/2027/chi.102734101 Public Domain in the United States, Google-digitized / http://www.hathitrust.org/access use#pd-us-google colour. After grinding, it is used in the manufacture of paint, plaster, paper, soap and rubber goods.

During the last few years talc-mining in western Nevada has made considerable progress. The rock is high-grade and can be quarried by open-cut methods. It is stated that nine-tenths of the talcum powder at present being made in the United States is manufactured from western Nevada rock.

Soapstone is quarried in the States of Virginia, Maryland, North Carolina, Rhode Island, and Vermont. The principal producing State is Virginia, where there are many large quarries situated on the soapstone belt running through Orange, Albemarle and Nelson counties. A second belt occurs at Jetersville in Amelia county. The larger portion of the soapstone produced is sold for the manufacture of laundry tubs, sinks and laboratory fittings.

The United States output of high-grade talc is insufficient to meet the domestic demand. The highest quality, suitable for the best toilet preparations, was formerly imported from France and Italy. During the war importation from France ceased, and that from Italy was greatly reduced, but large amounts were imported from Canada. The production of domestic talc increased considerably during the period. This was due partly to the shortage of supplies of English China clay, but more to the increasing use of talc in the manufacture of rubber goods and prepared roofing.

Marketed production of Talc and Soapstone in the United States.

Year.		Tale	c.	Soapst	one.	Total.		
		Quantity (long tons).	Value* (£).	Quantity (long tons).	Value* (£).	Quantity (long tons).	Value* (£).	
1913 1914 1915 1916 1917 1918 1919†		133,278 134,900 148,514 172,597 177,333 170,962 152,000	266,671 279,349 291,916 367,259 393,682 435,408 368,000	23,716 18,936 18,353 17,547 18,067 15,026 16,000	130,849 109,211 102,164 102,283 ‡ 123,137 125,000	156,994 153,836 166,867 190,144 195,400 185,988 168,000	397,520 388,560 394,080 469,542 588,545 493,000	

^{*} Values converted to £ sterling at the rate of 1 dollar = 4s. 2d.

[†] Estimated. ‡ Unpublished to avoid revealing value of business of one firm which constitutes bulk of output of three producers.

Imports of Tale for consumption into the United States.

Year.		Crude and u steatite French o	and	Ground t steatite powdered, or pulver	cut, washed	Total.		
		Quantity (long tons).	Value* (£).	Quantity (long tons).	Value* (£).	Quantity (long tons).	Value* (£).	
1913		_			_	12,295	28,683	
1914	•••					14,048	36,942	
1915	•••	1,890	2,701	14,243	38,932	16,133	41,633	
1916		1,810	2,634	15,049	45,465	16,859	48,099	
1917	•••	2,189	2,231	14,426	53,914	16,615	56,145	
1918	•••	1,281	1,928	11,370	52,359	12,651	54,287	
1919	•••	1,465	2,105	11,572†	51,854	13,037	53,959	

^{*} Values converted to £ sterling at the rate of 1 dollar = 4s. 2d.

Brazil.

Brazil possesses considerable deposits of high-grade tale and soapstone. Deposits of pure white tale are mined at Rezende in the State of Rio de Janeiro, at Lorena in the State of São Paulo, at Santo Amaro in the State of Bahia, and to a lesser extent in the State of Goyaz. High-grade massive tale is worked by natives in the States of Bahia, Minas Geraes and Ceara.

The greater part of the Brazilian output of talc is consumed locally, the exports amounting to only 41 tons in the year 1917,

and 13 tons in the year 1918.

Uruguay.

Talc of good quality is mined near Las Conchillas in Colonia, Uruguay. It has been used mainly for the manufacture of paper and soap in Buenos Aires and Montevideo, but it is suitable also for pharmaceutical uses.

China.

High-grade soapstone has been mined in China for many years. The chief producing districts are situated in the Tsintien region of Chekiang province and in the provinces of Chili and Fukien. The larger proportion of the material mined consists of a highly coloured variety of soapstone only suitable for carving into ornaments, images, utensils and other articles.

Exports of Soapstone-ware from China.

						Quantity
Year.				•		(long tons).
1913						474
1914						351
1915		• • •	• • •			197
1916						166
1917						57
191 8			•••			27
1919	•••	•••			•••	15

[†] Includes 3 tons of French chalk valued at £67.

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P.T.O.



REPORTS ON THE MINERAL INDUSTRY OF THE BRITISH EMPIRE AND FOREIGN COUNTRIES. (WAR PERIOD, 1913-19.)

Aluminium	and Ba	uxite		(1921)	Price	9d.	$(10\frac{1}{2}d.)$
Antimony				(1921)	,,	18.	$(1s. \ 1\frac{1}{2}d.)$
Arsenic				(1920)	1.0	6d.	(7d.)
Asbestos				(1921)	,,	1s.	$(1s. 1\frac{1}{2}d.)$
Barium Mir	erals				,,	(in the	e press)
Bismuth				(1920)	,,	6d.	(7d.)
Borates				(1920)	,,	9d.	$(10\frac{1}{2}d.)$
Coal. Part	I			(1921)	,,	3s. 6d.	$(3s. 8\frac{1}{2}d.)$
Coal. Part	$\Pi^{(i)}$,,	(in the	press)
Chrome Ore	: Chro	mium		(1920)	**	1s.	$(1s. 1\frac{1}{2}d.)$
Cobalt				(1921)	"	. 9d.	$(10\frac{1}{2}d.)$
Felspar	4.0			(1920)	10	6d.	(7d.)
Fluorspar					.,,	(in the	e press)
Fuller's Ear	th		.,.	(1920)	"	6d.	(7d.)
Iron Ore R			ie 1	World.			
Parts I, I					,,	(in the	e press)
Iron Pyrites		llphur			,,	(,,	,,)
Magnesite				(1920)	.,,	1s. 3d.	$(1s. \ 4\frac{1}{2}d.)$
Manganese				(1921)	,,	3s. 6d.	$(3s. 8\frac{1}{2}d.)$
Mica			•••		,,	(in the	e press)
				(1920)	,,	6d.	(7d.)
Nitrates				(1920)	,,	9d.	$(10\frac{1}{2}d.)$
Phosphates					,,	(in the	press)
Tale					7,	(,,	,,)
Tungsten				(1921)	,,	1s.	$(1s. 1\frac{1}{2}d.)$
Zinc	·		12.50	(1921)	,,	3s. 6d.	(3s. 8d.)
							THE RESERVE OF THE PARTY OF THE

IMPERIAL MINERAL RESOURCES BUREAU.

THE MINERAL INDUSTRY OF
THE BRITISH EMPIRE
FOREIGN COUNTRIES.

STATISTICS, 1919-1921.

TALC.



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1924

Price 9d. net.



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INTRODUCTORY NOTE.

In computing values of imports and exports, different systems are used by various countries. With three important exceptions, however, the values quoted are intended to represent frontier values, that is, c.i.f. for imports and f.o.b. for exports. The exceptions are the Union of South Africa, Canada and the United States, in which countries values of imports are based on fair market values prevailing in the exporting countries and therefore practically represent f.o.b. prices.

In certain foreign countries the official valuation system for imports and exports is operative, the values being determined by reference to a schedule of values drawn up by a valuation commission. In some cases the schedules remain in force for several years; in others they are revised annually. Where the values shown in the following tables are determined by a valuation based upon the prices of an earlier year, the fact is indicated by a footnote.

The annual average rates of exchange used by the Bureau in converting original currency to £ (Currency), and £ (Currency) to £ (Gold), are shown in the table below, which has been compiled from information supplied by the Board of Trade and the Federation of British Industries.

The long ton used throughout this publication is the British statute ton of 2,240 lb. (avdp.).

Table of Average Rates of Exchange.

Country	Quotation	Parity	1919	1920	1921
Canada(a) France Italy Spain Weden United States Argentina Japan	Dollars per £ Francs ,, Lire ,, Pesetas ,, Kronor ,, Dollars ,, Pesos ,, Yen ,,	4·867 25·22 25·22 25·22 18·16 4·867 5·039 9·76	4·435 31·78 39·12 22·27 17·39 4·389 4·129 4·457 8·69	4·185 52·68 76·73 23·27 17·893 3·657 3·720 4·077 7·32	4·329 51·92 90·96 28·48 17·09 3·847 3·970 5·281 8·00

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



I. World's Production of Talc.

(Long tons)

Producing Country		1919	1920	1921
British Empire—				<u> </u>
United Kingdom		688	361	_
Union of South Africa	•••	788	584	527
$Canada(a) \dots \dots$		16,645	19,349	9,048(b)
India		2,135	3,681	5,703
Australia	•••	622	409	318
Foreign Countries—				
Austria(c)		(d)	6,783	7,884
France		35,028	51,578	(d)
Germany (Bavaria)	•••	14,300(e)	20,606	6,513
Italy	•••	17,268	21,130	20,693
Norway		2,940		2,764
Spain	•••	2,975	2,112	1,097
United States		165,038	188,067	112,887

- (a) Sales.
- (b) Quantity mined during 1921 was 9,062 tons.
- (c) Exports.
- (d) Information not available.
- (e) Estimated.

II. SUMMARY OF EXPORTS OF TALC.

(Domestic Produce)

(Long tons)

Exporting Country	Description	1919	1920	1921
British Empire— United Kingdom	Ground tale, etc	(a)	372	237
Canada (b)	Crude talc Refined talc	1,040	667 10,394	32 7,812
Foreign Coun- tries— Austria (c)	Talc	(a)	6,783	7,884
Finland	Talc	7	(e)	_
France	Ground talc	9,469	20,061	9,887
Italy	Talc	9,268	13,935	10,832
Norway	Talc, etc	212	1,426	652
Spain (d)	Soapstone	2,253	2,011	1,438
Sweden	Talc and meerschaum	37	342	15
Egypt	Talc	(a)	29	2
Mexico (d)	Talc and mica	20	(a)	(a)
China	Soapstone ware	15	41	325

(a) Information not available.

(b) Years ended 31st of March of the year following that stated.
(c) Total exports, excluding transit trade.
(d) Total exports.
(e) Less than ½ ton.

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III. SUMMARY OF IMPORTS OF TALC.

(Less Re-exports)

(Long tons)

Importing Country	Description	1919	192 0	1921
British Empire— United				
Kingdom	Talc, mineral-white and silica } Ground talc }	11,720 {	$2,362 \\ 10,912$	$2,619 \\ 3,867$
India (d)	French chalk	15	57	75
Australia (a)	Talc manufactures	87	75	77
Foreign Coun-	- 			
Denmark	Talc	361	254	78
Finland (c)	Talc	212	1,233	727
France	Ground talc	6,318	6,649	3,980
Rumania (c)	Talc	129	350	(b)
Sweden	Talc and meerschaum	1,702	3,867	1,934
Egypt	Talc	27	239	288
Tunis (c)	Crude talc Ground talc	160 275	206 505	74 4
Mexico (c)	Talc and mica	142	(b)	(b)
United States	Ground or prepared talc	11,583	9,401	10,228
Argentina (c)	Talc	354 70	715 116	2,003 30
Chile	Crude talc	154	200	94
Peru	Talc powder	11	23	19
Japan (c)	Talc	11,223	9,568	10,304

⁽a) Years ended 30th June of the year stated.
(b) Information not available.
(c) Total imports.
(d) Figures refer to overseas trade only, and are for years ended 31st March of the year following that stated.

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IV. DETAILS OF IMPORTS AND EXPORTS OF TALC.

Article and Country of		Quantity		Ori	riginal Currency Value	псу	Value ir converted Rat	Value in British Currency onverted at Annual Average Rate of Exchange	urrency Average nge		Gold Value	
Origin of Destination	1919	1920	1921	1919	1920	1921	1919	1920	1921	1919	1920	1921

1. UNITED KINGDOM.

Talc. Mineral-White and		Long tons		भ	£ (Currency)	у)			£ (Gold)	
Silica(a).		-								
IMPORTS (<i>Total</i>) from— British Empire		48	13	1,265	317	147		 1,141	238	116
France	. 1,811	1,320	1,839	27,628	11,596	6,855		 24,920	8,715	5,419
United States Other Foreign Countries		268	244	11,793	1,283	1,472		11,475	1,820	1,164
Total	11,843	2,504	2,619	125,162	30,146	23,535		112,893	22,656	18,606
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Re-exports Total	1 123	112	ı	2,314	1,833	i`	·	 2,087	1,378	1
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	16,273 10,457 7,279	34,009	1,908
	2,053 86,151 23,525 8,921	120,650	6,221
		(<i>p</i>)	(6)
	2,138 740 1,108	3,986	237 119
	23 8,609 1,589 744	10,965	372 53
		(<i>p</i>)	<u>@</u>
Ground Talc, etc.	IMPORTS (Total) from— British Empire France Italy Other Foreign Countries	Total	EXPORTS (Domestic) Total RE-EXPORTS "
•	Importe Britis Franc Italy Other		Exports ($D_{ m c}$

2. CANADA (c).

Crude Talc.		Long tons			Dollars		ધ્સ	£ (Currency)	2		£ (Gold)	
Exports (Domestic) (d) Total	1,040	299	32		6,504 4,760	234	1,467	1,137	54	1,245	698	44
Refined Talc.												
Exports (Domestic) to— United States Other Countries	12,208 186	10,293	7,792 20	226,382 2,571	7,792 226,382 196,526 138,438 51,044 20 2,571 1,637 277 580	138,438 277	51,044 580	46,960	31,979 64	46,960 31,979 43,313 391 64 492	35,900 299	$26,091 \\ 52$
Fotal		12,394 10,394	1	228,953	7,812 228,953 198,163 138,715 51,624 47,351 32,043 43,805 36,199	138,715	51,624	47,351	32,043	43,805	36,199	26,143
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(a) Including ground tale, etc., in 1919.
 (c) Years ended 31st March of the year following that stated.

(b) Included with talc, mineral-white and silica.(d) All to United States.

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Article and Country of Origin or Destination 1919 1920 1921 1919 1920 1921 1919 1920 1921 1919 1920 1921 1919 1919
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3. FRANCE.

	I	Long tons			Francs		¥	£ (Currency)	ey)		£ (Gold)	
Ground Talc.												
IMPORTS (for Home Consumption) from— Italy Spain Other Countries	4,486 1,594 238			1,082,650 384,650 57,775	-		34,067 12,104 1,818			30,728 10,917 1,640	i	
Total	6,318	6,649	3,980	1,525,075	1,525,075 2,247,000 1,288,000	1,288,000	47,989	42,654	24,807	43,285	32,056	19,612
EXPORTS (Domestic) to— United Kingdom Italy Spain Other Countries	6,694 754 618 1,403 9,469	20,061	188'6	1,421,860 160,336 131,142 298,144 2,011,482 5,423,000 2,291,000	5,423,000	2,291,000	44,741° 5,045 4,127 9,381 63,294	102,942	44,126	40,355 4,550 3,722 8,462 57,089	77,365	34,885

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4. ITALY.

1 1						
						(a)
£ (Gold)		7,125	11,467	9,570	2,905	36,067
		7,431	21,201	4,789	3,497	36,918
7)						(a)
E (Currency)		9,481	15,258	12,734	10,518	47,991
ધ		8,239	23,505	5,310	3,877	40,931
						(a)
Lire			1,170,780			3,682,380
		322,320	919,530	207,740	151,640	10,832 1,601,230 3,682,380
						10,832
Long tons		2,753	4,431	3,697	3,054	13,935
		1,866	5,322	1,202	878	9,268
		:			:	Total
	•	- to	:	:	:	
÷	Talc.	Exports (Domestic) to— United Kingdom	France	United States	Other Countries	

SPAIN(b). <u>ئ</u>

	I	Long tons			Pesetas				£ (Gold)	
Soapstone.										
Exports (Total) from— France Other Countries	2,226	1,923	1,359	226,246 2,708	1,359 226,246 195,350 138,116 79 2,708 9,098 8,033	138,116 8,033	·	8,971	7,746	5,476 319
Total	2,253	2,011	1,438	228,954	1,438 228,954 204,448 146,149	146,149		9,078	8,107	5,795

 ⁽a) Information not available.
 (b) The values given are based wholly or mainly on the prices of 1913.

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Article and Country of Origin or Destination		Quantity		Orig	Original Currency Value	ncy	Value in converted Rat	Value in British Currency converted at Annual Average Rate of Exchange	urrency Average nge		Gold Value	
	1919	1920	1921	1919	1920	1921	1919	1920	1921	1919	1920	1921
				6. S	SWEDEN.							47000
Tale and Meerschaum.		Long tons	_		Kronor		ઝ	£ (Currency)	y)		£ (Gold)	
IMPORTS (for Home Consumption)												
Norway Other Countries	1,672	3,781 86	$1,867\\67$	154,605 17,032	$345,271 \\ 17,840$	108,385 11,919	8,891 979	19,300 997	6,342 697	8,019 883	14,505 749	5,014 551
Tots1	1,702	3,867	1,934	171,637	363,111	120,304	9,870	20,297	7,039	8,902	15,254	5,565
EXPORTS (Domestic) Total	37	342	15	7,851	47,220	1,626	451	2,639	95	407	1,983	75
			7.	UNITED	ID STATES	TES.						
Ground or Prepared Talc.		Long tons			Dollars		ધર	£ (Currency)	(,	·	£ (Gold)	
IMPORTS (Total) from— Ganada France Italy Other Countries	10,582 146 855	13,503 1,638 4,124 136	6,244 920 2,651 413	202,447 7,236 40,565	248,158 29,222 160,606 4,746	108,197 15,263 90,628 24,493	46,126 1,649 9,242	67,858 7,991 43,917 1,298	28,125 3,967 23,558 6,367	41,605 1,487 8,336	50,998 6,006 33,005 976	22,235 3,136 18,625 5,034
Total	11,583	19,401	10,228	250,248	442,732	238,581	57,017	121,064	62,017	51,428	90,985	49,030

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Long tons Pesos 522 5,631 11,606 555 95 1,575 2,039 7,206 19,368	277	Talc. IMPORTS (Total) from— Italy Urugusy Other Countries Total
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JAPAN.

(a) The values given are based wholly or mainly on "Official Values" fixed by the Argentine customs "Tarifa de Avaluos, 1906." During 1920 various increases were made, consequently it is impossible to give reliable gold values for that year.
(b) Less than \$\delta\$ ton.

LIST OF STATISTICAL PUBLICATIONS.

UNITED KINGDOM.

Mines and Quarries; Annual General Report with Statistics, Part III, by Chief Inspector of Mines.

First Annual Report of the Secretary and the Annual Report of H.M. Chief Inspector of Mines, 1921.

Annual Statement of the Trade of the United Kingdom with Foreign Countries and British Possessions, Vols. II and III.

Union of South Africa.

Annual Reports of the Government Mining Engineer.

CANADA.

Annual Reports on the Mineral Production of Canada. Monthly Report of the Trade of Canada, March, 1922.

INDIA.

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

Australia.

South Australia.—Mines Department; Mining Review.
Commonwealth.—Trade and Customs and Excise Revenue of the Commonwealth of Australia.

AUSTRIA.

Statistische Uebersichten über den auswärtigen Handel Oesterreichs.

DENMARK.

Danmarks Vareindførsel og -Udførsel.

FINLAND.

Finlands Handel på Utrikes Orter samt Uppbörden vid Tullverket.

FRANCE.

Statistique de l'Industrie Minérale en France et en Algérie. Tableau Général du Commerce et de la Navigation de la France, Vol. I. Documents Statistiques du Commerce de la France.

ITALY.

Rivista del Servizio Minerario. Movimento Commerciale del Regno d'Italia, Part I. Statistica del Commercio Speciale di Importazione e di Esportazione.

NORWAY.

Norges Bergverksdrift. Norges Handel.

RUMANIA

Comertul Exterior al Romaniei si Miscarea Porturilor.



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Estadistica Minera de España. Estadistica General del Comercio Exterior de España. Resumenes Mensuales de la Estadistica del Comercio Exterior de España.

SWEDEN.

Sveriges Handel.

EGYPT.

Annual Statement of the Foreign Trade of Egypt.

TUNIS.

Documents Statistiques sur le Commerce de la Tunisie.

MEXICO.

Anuario de Estadistica Fiscal.

UNITED STATES.

United States Geological Survey; Mineral Resources of the United States. Foreign Commerce and Navigation of the United States.

ARGENTINA.

Anuario del Comercio Exterior de la Republica Argentina.

CHILE.

Anuario Estadistico de la Republica de Chile; Comercio Exterior.

PERU.

Estadistica del Comercio Especial del Peru.

CHINA.

Foreign Trade of China; Part II, Vols. I and II.

JAPAN.

Annual Return of the Foreign Trade of the Empire of Japan, Part I.

(45109) Wt. 19464—176/1207 1000 1/24 H. St. G. 25



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The following is a list of the Official Publications (all prices are net, and those in parentheses include postage):—

REPORTS ON THE MINERAL INDUSTRY OF THE BRITISH EMPIRE AND FOREIGN COUNTRIES. (WAR PERIOD, 1913-19.)

	_ 02422	u.i 001	O LY LABRA	. (,	1010				
Aluminium an	d Banx	ite			•••	(1921)	Price		9d.	(10	12.)
Antimony		•••	•••		•	(1921)		1.	0d.	•	$1\frac{1}{2}d.$
Arsenic				•••		(1920)	**	10.	6d.	(7d.	
Asbestos	•••	•••	•••	•••	•••		"	1.	2.7.		
	-1-	•••	•••	•••	•••	(1921)	77	18.	0d.		11d.)
Barium Miner		•••	•••	•••		(1921)	**		9d.	(10]	
Bismuth	•••	•••	•••	•••	•••	(1920)	99		6d.	(7d.	
Borates	•••	•••	•••	•••	•••	(1920)	"	٠	9d.	(10)	
China Clay	•••	•••	•••	•••	•••			In	i the	presi	3.
Chrome Ore at	ad Chro	mium	•••		•••	(1920)	. 19	18.	0d.	(1s.	1½d.)
Coal, Coke and	l By-Pi	roducta	:			• •					
Part I		•••		•••		(1921)	"	38.	6d.	(38.	81d.)
Part II	•••		•••	•••		(1922)	"	68.	6d.		0 d.
Part III	•••	•••	•••	•••		(1922)			0d.		$6\frac{1}{2}d.)$
Cobalt	•••					(1921)	***		9d.	(10)	
Commen		•••	•••	•••	•••	(1922)	* 22 .	10	0d.		3½d.)
Felspar		•••	•••	•••	•••	· · · · · · · · · · · · ·	"	70.			
Fluorspar	•••	•••	•••	•••	•••	(1920)	"		6d.	(7d.	
Full-day	•••	•••	•••	***	•••	(1921)	22		9d.	(101	
Fuller's Earth	•••	•••	•••	•••	•••	(1920)	"		6d.	(7d.	
Gold	•••	•••	•••	•••		(1922)	22	68.	0d.		5½d.)
Graphite	•••	•••	•••	•••		(1923)	12	18.	6d.	(1s.	7d.)
Gypsum	•••	•••				(1923)	"		9d.	(100	
Iron Ore Reso	urces o	f the V	Vorld:			- T.	, ,		1.3	· .	11
Part I.	United	Kinge	dom	•••	•••	(1922)	. ,,	68.	0d.	(68.	5d.)
Part, II.		Afric		•••	•	(1922)		3s.			3d.)
Part III.		h Amer			•••	(1922)	"	38.			9 d.)
Part IV.		Asia			•••	(1922)	"	28.			81d.
Part V.		lia and		Zonland	• • • • •	(1922)	77	48.		(48.	
Part VI.						· · - · · ·	"				
Part VII.		e and			m)	(1922)	- 23	68.		(68.	
Part VIII.		n Ame		•••	•••	(1922)	1499	48.	')	4 d.)
T 1	roreig	n Asia	/	•••	•••	(1922)	37	28.			91d.)
Lead	•••	•••	•••	•••		(1922)	>>	38.		(3s.	
Lead Poisoning	z. Lav	ws and	Regula	tions	•••	(1922)	97 .	58.	0d.	(58.	4 d.)
Magnesite		•••		•••		(1920)	,,	18.	3d.		41d.)
Manganese	•••	•••		•••	•••	(1921)	99	38.	6d.	(3s.	8½d.)
Mica	•••	•••	•••	•••	•••	(1921)			9d.	(10⅓	d.)
Molybdenum	•••	•••	•••	•••	•••	(1923)	77	18.	6d.	(18.	7 d.)
Monazite	•••	•••	•••	•••	•••	(1920)	22	100	6d.	(7d.)
Nickel	•••	•••	•••	•••		(1922)	19	18.	6d.	(18.	71d.)
Nitrates	***	•••			· /	(1920)				(101	
Petroleum	•••		•••	•••	•••	(2020)	13		the s		
Phosphates		***	•••	•••	•••	(1921)		28.			1 <u>1</u> d.)
Platinum and	Allind	M-1-1-	•••	•••	•••	(1921)	77,	2s.		(2s.	
				•••	•••		77		11 11		
Solt.	•••	•••	•••	•••	•••	(1922)	93	18.			1½d.)
Rilven		•••	•••	•••	•••	(4000)			the 1		
Stronting 15:	•••	• 14	•••	•••	•••	(1923)	"	48.		(48.	
Strontium Min	erals	•••	•••	• • •	•••	(1923)	. 19 . ,			$(3\frac{1}{2}d$	
Sulphur and Ir	оп Руг	rites	•••	•••	• • • •	(1922)	37	18.			7±d.)
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<u>1111</u>	•••		•••	•••		(1922)	- 59	38.	0d.	(38.	2d.)
Lungsten	•••	•••	•••	***		(1921)	"	18.	0d.	(18.	11d.)
Vanadium :	•••		•••			(1922)	"		6d.	(7d.)	
Zine	• 1					(1921)		38.		(38.	
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STATISTICS, 1919-21.

			SIAI	LOTTOD,					
Aluminium (in	cluding	g Baux	ite and	Cryoli	ite)	CONTRACTOR OF THE PARTY OF THE	Price	1s. 0d.	(1s. 1d.)
TO A TO A STATE OF THE PARTY OF	•••		•••			(1923)	77	3s. 0d.	(3s. 1d.)
Lead		•••			•••	(1923)	27	2s. 0d.	(2s. 1d.)
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Iron and Steel		•••			•••	(1923)	"	1s. 6d.	(1s. 7d.)
Coal, Coke and	By-P	roducts			•••	(1923)	717	4s. 6d.	(4s. 8d.)
Silver		•••	• • • •			(1923)	***	1s. 6d.	(1s. 7d.)
Gold		•••			•••	(1923)	171	1s. 6d.	(1s, 7d.)
Petroleum and	Allied	Produ	icts		•••	(1923)	73	7s. 6d.	(7s. 8d.)
Diatomaceous	Earth	•••				(1923)	- 11	0s. 6d.	$(0s. 6\frac{1}{2}d.)$
Arsenic						(1923)	- 11	1s. 3d.	$(1s. 3\frac{1}{2}d.)$
Quicksilver			•••		•••	(1923)	37	1s. 0d.	$(1s. 0\frac{1}{2}d.)$
Bismuth						(1923)	27	0s. 9d.	$(0s, 9\frac{1}{2}d.)$
Graphite				•••		(1923)	21	1s. 0d.	$(1s. 0\frac{1}{2}d.)$
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Mica				•••		(1924)	77	1s. 0d.	$(1s, 0\frac{1}{2}d.)$
Uranium (Rad	lium) I	Minera	ls			(1924)	22	0s. 9d.	$(0s. 9\frac{1}{2}d.)$
Fluorspar			•••		***	(1924)	97	0s. 6d.	$(0s. 6 \frac{1}{2}d.)$
Phosphates			***			(1924)	"	2s. 6d.	(2s. 7d.)
Antimony						(1924)	13	1s. 6d.	(1s. 7d.)
Fuller's Earth						(1924)	21	0s. 6d.	$(0s. 6\frac{1}{2}d.)$
Abrasives						(1924)	77	1s. 6d.	$(1s. 6\frac{1}{2}d.)$
Nickel						(1924)	"	1s. 6d.	$(1s. 6\frac{1}{2}d.)$
Asbestos						(1924)	22	1s. 0d.	$(1s. 0\frac{1}{2}d.)$
Cobalt						(1924)	77	0s. 9d.	$(0s. 9\frac{1}{2}d.)$
Titanium			To the state of			(1924)	22	0s. 6d.	$(0s. 6\frac{1}{2}d.)$
Tale						(1924)	11	0s. 9d.	$(0s, -9\frac{1}{2}d.)$
Monazite						(1924)	31	0s. 6d.	$(0s. 6\frac{1}{2}d.)$
Chrome Ore a	nd Chi	omiun	1			(1924)	22	1s. 0d.	(1s. 1d.)
Cadmium						(1924)	77	0s. 6d.	$(0s. 6\frac{1}{2}d.)$
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Salt					•••	(1924)		2s. 0d.	(2s. 1d.)
	E A					The state of	Y51945 1 4 11		

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Volume I. Nigeria		Price	158.	0d.	$(158. 6\frac{1}{2}d.)$	ä
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Ashanti. The Northern Territories, and				13		
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STATISTICS, 1920-1922.

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						(1921)			
Antimony Arsenic				1					(1s. 1½d.)
Arsenic Asbestos				STATE OF		(1920)			(7d.)
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Barium Miner	ais					(1921)	20		$(10\frac{1}{2}d.)$
Bismuth				No. of the last		(1920)		6d.	
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Chrome Ore a	nd Chr	omium			P. C.	(1920)		1s. 0d.	$(1s. 1\frac{1}{2}d.)$
Coal, Coke an	d By-P	roducts							
Part I					7.70	(1921)		30 87	(3s. 81d.)
Part II						(1922)			(7s. 01d.)
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Cobalt					有感	(1921)		9d.	$(10\frac{1}{2}d.)$
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Copper Felspar Fluorspar	數學經濟		THE WAR			(1920)		6d.	
Fluorspar						(1921)			(10 ld.)
Fuller's Earth						(1920)		6d.	(7d.)
Gold		A A				(1922)			(6s. 51d.)
						(1923)			(1s. 7d.)
Gypsum				THE ST		(1923)	27	94.	
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Iron Ore Reso									
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Part II.	British	h Africa	1			(1922)		3s. 0d.	(3s. 3d.)
Part III.	Britisl	h Amer	ica			(1922)		3s. 6d.	(3s. 91d.)
Part IV.	British	n Asia				(1922)			(2s. 81d.)
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Part VI.				(Foreign		(1922)		6s. 0d.	(6s. 6d.)
Part VII.						(1922)			(4s. 41d.)
Part VIII.	Foreig	n Asia				(1922)			TO A PERSON THE PARTY OF THE PA
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					DE.		**	2s. 6d.	
Lead			5 88			(1922)		3s. 0d.	(3s. 2d.)
Lead Poisonin	 g. La	ws and	 Regul	ations		(1922) (1922)		3s. 0d. 5s. 0d.	(3s. 2d.) (5s. 41d.)
Lead Poisonin Magnesite	g. La	ws and	Regul	ations		(1922) (1922) (1920)		3s. 0d. 5s. 0d. 1s. 3d.	(3s. 2d.) (5s. 4½d.) (1s. 4½d.)
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Lead Poisonin Magnesite Manganese Mica Molybdenum Monazite Nickel Nitrates Petroleum Phosphates	g. La	ws and	Regul	ations		(1922) (1922) (1920) (1921) (1921) (1923) (1920) (1922) (1920) (1923)		3s. 0d. 5s. 0d. 1s. 3d. 3s. 6d. 9d. 1s. 6d. 6d. 6s. 6d. 9d. 6s. 6d. 2s. 0d.	(3s. 2d.) (5s. 4½d.) (1s. 4½d.) (1s. 4½d.) (3s. 8½d.) (10½d.) (1s. 7½d.) (7d.) (1s. 7½d.) (10½d.) (6s. 8d.) (2s. 1½d.)
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(Continued on page 3 of cover.)

THE MINERAL INDUSTRY OF THE BRITISH EMPIRE

AND

FOREIGN COUNTRIES.

STATISTICS, 1920 - 1922.

TALC.



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LIST OF STATISTICAL PUBLICATIONS

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INTRODUCTORY NOTE.

In computing values of imports and exports, different systems are used by various countries. With three important exceptions, however, the values quoted are intended to represent frontier values, that is c.i.f. for imports and f.o.b. for exports. The exceptions are the Union of South Africa, Canada and the United States, in which countries the values of imports are based on fair market values prevailing in the exporting countries and, therefore, practically represent f.o.b. prices.

In certain foreign countries the official valuation system for imports and exports is operative, the values being determined by reference to a schedule of values drawn up by a valuation commission. In some cases the schedules remain in force for several years; in others they are revised annually. Where the values shown in the following tables are determined by a valuation based upon the prices of an earlier year, the fact is indicated by a footnote.

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

The annual average rates of exchange used by the Bureau in converting original currency to f (Currency), and f (Currency) to f (Gold), are shown in the table below, which has been compiled from information supplied by the Board of Trade and the Federation of British Industries.

The unit of quantity adopted for this publication is the British statute ton of 2,240 lb. (avdp.).

TABLE OF AVERAGE RATES OF EXCHANGE.

Country	Quotation	Parity	1920	1921	1922
Canada (a) Austria France Italy Norway Spain Sweden United States United States (a) Argentina Japan	Dollars per £ Kronen Francs Lire Kroner Pesetas Kronor Dollars Dollars Pesos Yen " Kroner " " " " " " " " " " " " " " " " " " "	4·867 24·02 25·22 25·22 18·16 25·22 18·16 4·867 4·867 5·039 9·76	4·185 (b) 52·68 76·73 22·51 23·27 17·89 3·657 3·720 4·077 7·32	4·329 (b) 51·92 90·96 26·15 28·48 17·09 3·847 3·970 5·281 8·00	4·556 (b) 54·62 93·85 25·38 28·60 16·91 4·421 4·518 5·403 9·248

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

(b) Average rates have not been used.



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I. PRODUCTION OF TALC.

(Long tons)

Producing C	ountry	1920	1921	1922
British E	MPIRE			
United Kingdom		. 361		50
Union of South A		504	527	304
Canada		(-) 10.040	9,062	12,946
India		3,681	2,070	906
Australia		409	318	468
Т	otal .	24,400	12,000	14,700
Foreign Cou	JNTRIES			
Austria (b)		6,783	7,884	13,263
France		51,578	34,184	47,396
Germany (Bavari	ia) .	20,606	6,513	4,440
Italy		21,130	20,693	26,059
Norway		.	2,765	7,695
Spain		2,112	1,097	3,029
Sweden		(c)	1,768	2,030
United States (a)		188,067	108,916	177,396
Uruguay (b)		1,772	1,727	(c)
China (b)		41	325	284
Japan	• •	(c)	(c)	(d) 48,144
	Total .	340,000	230,000	331,000
World's	Total	360,000	240,000	346,000

(a) Sales.

(b) Exports.
(c) Information not available.
(d) Including "agalmatolite."

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II. SUMMARY OF EXPORTS.

(Domestic Produce)

(Long tons)

*			
Exporting Country and Description	1920	1921	1922
British Empire			
United Kingdom—			
Ground tale, etc	372	237	270
Canada (b)—	0,2	20,	2.0
Crude talc	667	32	
Refined talc	10,394	7,812	8,537
	·		
Foreign Countries			
A		•	
Austria (c)—	0.700	7 004	10.000
Talc	6,783	7,884	13,263
Talc	16	24	14
France—	10	27	**
Ground talc	19,058	9,394	13,743
Germany—	20,000	0,001	10,110
Crude, ground and calcined			
talc	· (a)	(a)	402
·Italy—			
Talc	13,935	10,832	16,915
Norway—			
Soapstone	1,426	652	658
Ground soapstone and talc	4,511	3,417	3,898
Poland—	, ,	00	
Talc and magnesite	(a)	23	75
Spain (d)—	2,011	1,438	1 500
Soapstone Sweden—	2,011	1,430	1,590
Talc and meerschaum	342	15	147
Egypt—	0.2	10	117
Talc	29	2	
Uruguay—			
Soapstone	1,696	1,637	(a)
Ground talc	76	90	(a)
China—]	_	
Soapstone ware	41	325	284
	1		

(a) Information not available.

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

(c) Including re-exports, but excluding transit trade.

(d) Including re-exports.



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III. SUMMARY OF IMPORTS.

(Less Re-exports)

(Long tons)

Importing Country and Description	1920	1921	1922
BRITISH EMPIRE			
United Kingdom—			
Talc, steatite and soapstone—	•		
Unground	2,392	2,619	3,912
Ground	10,912	3,867	6,411
Australia (a)—			•
Talc manufactures	75	77	80
Foreign Countries			
Czechoslovakia (c)—			1
Talc	1,098	618	904
Denmark—			
Talc	254	78	310
Finland (c)—	1 000	707	1 207
Talc	1,233	727	1,307
Ground talc	6,317	3,981	5,650
Germany—	0,017	0,001	0,000
Crude, ground and calcined		<u>†</u>	İ
talc	(b)	(b)	11,991
Poland—	ν- /		, , , , , , , , , , , , , , , , , , , ,
Talc and magnesite	(b)	1,118	2,068
Rumania (c)—			
Talc	350	(b)	(b)
Sweden-		1 004	
Talc and meerschaum	3,867	1,934	1,460
Algeria—	. 154	. 29	E.4
Ground talc	154	29	54
Egypt— Talc	239	288	303
Tunis (c)—	209	200	303
Crude talc	206	74	310
Ground talc	505	4	41
United States—			
Ground or prepared talc	19,401	10,228	16,342
Argentina—			
Talc	715	2,003	1,289
Talc powder	116	30	63
Chile—	000		00
Crude talc	200	94	99
Peru— Talc powder	23	19	2
Uruguay—	23	. 19	4
Talc	46	7	(b)
Japan (c)—	10	1	(0)
Talc	9,568	10,304	12,341

⁽a) Years ended 30th June of the year stated.(b) Information not available.(c) Total imports.

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IV. DETAILS OF IMPORTS AND EXPORTS.

	1922	
Gold Value	1921	
)	1920	
urrency ial Aver- hange	1922	
Value in British Currency converted at Annual Average Rate of Exchange	1921	
Value in converte age Ra	1920	
y Value	1922	
Original Currency Value	1921	
Origina	1920	
	1922	
Quantity	1921	
	1920	
Article and Country of	Origin or Destination	

1. UNITED KINGDOM.

		Ä	Long tons) 7	\mathcal{L} (Currency)					(PloS) $\tilde{\mathcal{F}}$	
Unground Tale, Steatite and Soapstone.	and											
IMPORTS (Total) from— British Empire France Italy Norway Other Foreign Countries	:::::	. 48 1,320 750 194 192	13 1,839 522 244 1	2,291 671 520 428	317 14,529 11,596 1,471 2,233	14,991 6,855 1,442 100	25 19,833 9,194 2,535 3,773	•		238 10,919 8,715 1,106 1,678	11,852 5,419 1,140 79	23 18,016 8,351 2,303 3,427
${ m Tc}$	Total 2	2,504	2,619	3,912	30,146	23,535	35,360			22,656	18,606	32,120
Re-exports	Total	112		(a)	1,833	I	3			1,378	1	က

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672 23,843 15,192 3,032 5,341	48,080	2,112
12,865 8,267 3,357 2,398	26,887	1,508
1,543 64,746 17,680 4,170 2,534	90,673	4,675
		·
740 26,248 16,725 3,338 5,880	52,931	2,325
16,273 10,457 4,246 3,033	34,009	1,908
2,053 86,151 23,525 5,549 3,372	120,650	6,221
92 3,796 ·1,469 607	6,568	270
2,138 740 807 301	3,986	237
23 8,609 1,589 464 280	10,965	372 53
	Total	Total Total
Ground Tale, etc. IMPORTS (Total) from— British Empire France Italy Norway Other Foreign Countries		Exports (Donicstic) Re-exports

2. CANADA (b).

		Long tons	_		Dollars) 7	\mathcal{L} (Currency)			(Plo5) $\widetilde{\mathcal{F}}$	
Crude Talc. Exports (Domestic) (c) Total	667	32		4,760	234	1	1,137	54		698	44	
Refined Talc.												
Exporrs (Domestic) to— United States Other Countries	10,293	7,792	8,324 213	196,526 1,637	138,438 134,414 277 3,345	134,414 3,345	46,960	31,979 64	29, 503 35,	900 299	26,091 52	27,393 682
Total	Total 10,394	7,812	8,537	198,163	138,715 137,759	137,759	47,351	32,043	30,237	36,199	26,143	28,075
(a) One cwt. (b)	(b) Years ended 31st March of the year following that stated.	ded 31st	March of	the year f	ollowing	that stated	 	(c) All to	(c) All to United States.	states.		

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e	1922				56,119			22,765 4,965 917	28,647
Gold Value	1921		(PloS) $\tilde{\mathcal{F}}$		(<i>q</i>)		(PloS) \widetilde{f}	12,761 5,607 942	19,310
	1920				(<i>p</i>)			20,857 9,435 1,764	32,056
urrency al Aver- nange	1922						()	25,062 5,466 1,009	31,537
Value in British Currency converted at Annual Aver- age Rate of Exchange	1921						\mathcal{L} (Currency)	16,141 7,092 1,192	24,425
Value in converted age Rat	1920						J	27,753 12,554 2,347	42,654
. Value	1922		ronen		1,348			838,035 1,368,900 368,214 298,590 61,875 55,050	1,722,540
Original Currency Value	1921	3. AUSTRIA (a).	Thousand gold kronen		(<i>q</i>)	4. FRANCE.	Francs	838,035 368,214 61,875	1,268,124
Original	1920	3. AU	Thousa		(9)	4. F		1,462,020 661,325 123,690	2,247,035 1,268,124 1,722,540
	1922			743 10,454 134 495 1,437	13,263			4,490 . 979 181	5,650
Quantity	1921		Long tons	460 5,900 89 499 936	7,884		Long tons	2,499 1,098 384	3,981
-	1920			1,102 4,354 249 201 877	6,783		Н	4,110 1,860 347	6,317
Article and Country of	Origin or Destination		Talc.	EXPORTS (Total) to— Czechoslovakia Germany Italy Poland Other Countries	Total		Ground Tale.	IMPORTS (for Consumption) from— Italy Spain Other Countries	Total



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25,698 2,937 10,097 19,342	58,074				96,848			4,294		2,620	(c) 3,010	6.870	
14,061 2,252 4,485 14,091	34,889		(PloS) $\widetilde{\mathcal{F}}$		(<i>q</i>)		\mathcal{F} (Cold)	3,610		2,860	5,670	9.970	ies."
39,427 7,285 7,390 23,269	77,371		+	7,125 11,467 9,570 7,905	36,067		7	8,710		હ	11,660	15,310	(c) Included with "Other Countries."
28,291 3,233 11,116 21,293	63,933		<i>y</i>		106,618		cy)	4,727		2,890		7,560	with "Oth
17,785 2,848 5,673 17,824	44,130		£ (Currency)		(b)		\mathcal{L} (Currency)	4,560		3,620	7,180	12,620	Included
52,461 9,693 9,833 30,963	102,950		Ĩ	9,481 15,258 12,734 10,518	47,991		,	11,590		99	15,510 4,860	20,370	(0)
1,545,250 176,575 607,175 1,163,000	3,492,000 102,950				10,006,146			119,980		73,300	(c) 84,130	191,930	lable.
923,400 147,888 294,552 925,392	2,291,232	5. ITALY.	Lire		(b)	NORWAY.	Kroner	119,300		94,700	187,600	329,900	(b) Information not available.
2,763,656 510,608 518,028 1,631,112	5,423,404 2,291,232	16		727,480 1,170,780 977,080 807,040	3,682,380	89		260,900		99	349,200 109,300	458,500	nformation
6,082 695 2,390 4,576	13,743			2,117 4,700 5,658 4,440	16,915			658		1,183	(c) 1,835	3,898	(b) In
3,786 606 1,207 3,795	9,394		Long tons		10,832		Long tons	652		981	1,943	3,417	
9,711 1,795 1,820 5,732	19,058			2,753 4,431 3,697 3,054	13,935			1,426		<u>©</u>	3,436	4,511	trade.
Exports (Domestic) to— United Kingdom Italy United States Other Countries	Total		. Talc.	Exports (Domestic) to— United Kingdom France United States Other Countries	Total	•		EXPORTS (Domestic) Total	Ground Soapstone and Talc. EXPORTS (Domestic) to—	United Kingdom'	Sweden Other Countries	Total	(a) Excluding transit trade.



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Article and Country of		Quantity		Origina	Original Currency Value	, Value	Value in converte age Ra	Value in British Currency converted at Annual Aver- age Rate of Exchange	Surrency aal Aver- change		Gold Value	o l
Origin or Destination	1920	1921	1922	1920	1921	1922	1920	1921	1922	1920	1921	1922
		•		7. 80	7. SPAIN (a).							
Soapstone.		Long tons			Pesetas		J	\mathcal{L} (Currency)	y)		(plo5) $\tilde{\mathcal{T}}$	
EXPORTS (Total) to— France Other Countries	1,923	1,359		195,350 9,098	138,116	; >				7,746	5,476	
Total	2,011	1,438	1,590	204,448	146,149	258,546			9,040	8,107	5,795	8,212
				8.8	SWEDEN.							
Tale and Meerschaum.		Long tons			Kronor) 7	\mathcal{L} (Currency)	((plo5) \tilde{f}	
IMPORTS (for Consumption) from— Norway Other Countries	3,781	1,867	1,284	345,271 17,840	108,385	56,930 21,003	19,300	6,342	3,367	14,505	5,014	3,058 1,129
Total	3,867	1,934	1,460	363,111	120,304	77,933	20,297	7,039	4,609	15,254	5,565	4,187
Exports (Domestic) Total	342	15	147	47,220	1,626	16,059	2,639	• 96	950	1,983	75	863

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Ground or Prepared Talc.		Long tons			Dollars		Ť	$ \widetilde{\xi} $ (Currency)	y)		(plo5) $\tilde{\mathcal{F}}$	
IMPORTS (Total) from— Canada France Italy Other Countries	13,503 1,638 4,124 136	6,244 920 2,651 413	8,864 2,257 4,884 337	248,158 29,222 160,606 4,746	108,197 15,263 90,628 24,493	149,747 46,702 160,211 15,024	67,858 7,991 43,917 1,298	28,125 3,967 23,558 6,367	33,872 10,564 36,239 3,397	50,998 6,006 33,005 976	22,235 3,136 18,625 5,034	30,768 9,596 32,918 3,086
Total	19,401	10,228	16,342	442,732	238,581	371,684	121,064	62,017	84,072	90,985	49,030	76,368
				10. AB	10. ARGENTINA (b)	A (b).						!!!
Talc.	I	Long tons			Pesos						(plo5) $\tilde{\mathcal{T}}$	
IMPORTS (Total) from— Italy Uruguay Other Countries	522 98 95			11,606 555 2,039								
Total	715	2,003	1,289	14,200	19,368	97,210				(9)	3,202	16,073
				#	11. JAPAN.							
Talc.	I	Long tons		II	Thousand yen	en	<i>¥</i>	\mathcal{E} (Currency)	y)		(plo9) \tilde{f}	
IMPORTS (Total) from— China Kwantung Peninsula Other Countries	4,154 5,408 6	4,160 6,128 16		161 162 2	140 18 5 1		21,995 22,131 273	17,500 23,125 125		16,530 -16,633 205	13,835 18,282 99	
Total	9,568	10,304	12,341	325	326	374	44,399	40,750	40,441	33,368	32,216	36,735
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(a) The values given for 1920 and 1921 are based wholly or mainly on the prices of 1913.

(b) The values given are based wholly or mainly on "Official Values" fixed by the Argentine customs "Tarifa de Avaluos, 1906." In consequence of various increases made during 1920, it is not possible to give reliable gold values for that year. The value in pesos given for 1922 appears to be high, but it is the tariff value quoted in the official trade returns.

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GERMANY.

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PERU.

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JAPAN.

The Statistics of Agriculture, Industry and Commerce. Annual Return of the Foreign Trade of the Empire of Japan, Part I. Monthly Return of the Foreign Trade of the Empire of Japan.

Printed by H.M.S.O. Press, Harrow.

LIST OF OFFICIAL PUBLICATIONS (continued from page 2 of cover).

Mineral Industry of the British Empire and Foreign Countries. Statistics, 1919-21.

Abrasives						(1924)	Price	1s. 6d.	(1s. 61d.)
Aluminium (in	cluding	Baux	ite and	Cryoli	te)	(1923)		1s. 0d.	(1s. 1d.)
Antimony						(1924)		1s. 6d.	(1s. 7d.)
Arsenic						(1923)		1s. 3d.	(1s. 31d.)
Asbestos						(1924)		1s. 0d.	(1s. 01d.)
Barium	KLESS.	No Bar				(1924)		1s. 3d.	(1s. 3\d.)
Bismuth						(1923)		0s. 9d.	(0s. 91d.)
Borates		2300				(1924)		1s. 3d.	(1s. 31d.)
Cadmium						(1924)		0s. 6d.	(0s. 61d.)
Borates Cadmium China Clay						(1924)		1s. 0d.	(1s. 01d.)
Chrome Ore ar	d Chre	minm	E 2 2 5			(1924)		1s. 0d.	(1s. 1a.)
Coal, Coke and	By-P	roducts				(1923)		4s. 6d.	(4s. 8d.)
						(1924)		0s. 9d.	
						(1923)		3s. 0d.	(3s. 1d.)
Diamonds						(1924)		1s. 0d.	(1s. 01d.)
Diatomaceous	Farth					(1923)		0s. 6d.	(0s. 61d.)
						(1924)			(0s. 61d.)
Felspar Fluorspar						(1924)	1.0	0s. 6d.	(0s. 61d.)
Fuller's Forth						(1924)	2 1		(0s. 64d.)
Fuller's Earth Gold						(1923)		1s. 6d.	(1s. 7d.)
Cruphite				经 对关键		(1923)		1s. 0d.	(1s. 01d.)
Graphite Gypsum						(1924)	100	1s. 6d.	
Iron and Steel		三 总别				(1923)	1		(1s. 7d.)
						(1923)		1s. 6d.	(1s. 7d.) (2s. 1d.)
Lead						(1924)		2s. 0d.	GIVEN AND AND A CHARLES AND A
Magnesite						 Section desired by the artists 	100	1s. 9d.	(1s. 10d.)
Magnesite Manganese Mica						(1924) (1924)	44	1s. 6d.	(1s, 61d.)
Mica Molybdenum						A fightlight married at 1940	4	1s. 0d.	$(1s. 0 \frac{1}{2}d.)$
Molybaenum						(1924) (1924)		0s. 6d.	(0s. 61d.)
Monazite								0s. 6d.	(0s. 61d.)
Nickel						(1924)		1s. 6d.	$(1s. 6\frac{1}{2}d.)$
Nitrates	A 115 - 2	D				(1924)	11	2s. 0d.	(2s. 1d.)
Petroleum and						(1923)	0 P	7s. 6d.	(7s. 8d.)
	A 111			温量		(1924)		2s. 6d.	(2s. 7d.)
Platinum and	Allied	Metals				(1924)	100	1s. 3d.	$(1s. 3\frac{1}{2}d.)$
Potash Minera	IS					(1924)		2s. 6d.	(2s. 7d.)
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