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LEAGUE OF NATIONS

ECONOMIC AND FINANCIAL SECTION

INTERNATIONAL ECONOMIC CONFERENCE

Geneva, May 1927

DOCUMENTATION



MEMORANDUM

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ON THE

IRON AND STEEL INDUSTRY

GENEVA 1927

Publications of the League of Nations II. ECONOMIC AND FINANCIAL 1927. II. 8.

PREFACE.

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The Preparatory Committee for the International Economic Conference, at its first meeting in April 1926, laid down an elaborate plan of research in order to enable it to determine "in what domains the economic difficulties which are at present experienced are international in character". It decided that, amongst other documents, a series of memoranda should be prepared concerning certain industries, including iron and steel, and at the same time indicated the general lines on which these memoranda should be compiled. In the early summer of 1926, the Secretariat accordingly drew up a rough preliminary draft which was circulated to certain members of the Preparatory Committee and submitted by them to the industrial associations in their own countries for comment and criticism. A fresh draft was then prepared before the second meeting of the Preparatory Committee in which account was taken of the observations received. By the date of this second meeting, however, all comments expected had not been forwarded, and the document then circulated was accordingly provisional in character.

In the present document, account has been taken of information transmitted by members of the Preparatory Committee from Belgium, Czechoslovakia, France, Germany, Italy, Poland, Spain, the United Kingdom and the United States of America, including the observations of the Belgian Direction générale des Mines, the Federation of the Czechoslovak Employers' Organisations, the Comité des Forges de France, the Fachgruppe der Eisen schaffenden Industrie beim Reichsverband der Deutschen Industrie, the Associazione fra gli Industriali Metallurgici Italiani, the Fomento del Trabajo Nacional (Spain), and the National Federation of Iron and Steel Manufacturers.

The section on labour conditions and the corresponding Annex II are prepared in the main from information collected by the International Labour Office.

In Annex V will be found statements and observations on the industry in Germany, France and the United Kingdom submitted by the Iron and Steel Producers' Organisations in these countries. The text of the International Steel Agreement is given in Annex VI, together with a note on the Share Quotas in this Agreement.

Geneva, March 1927.

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I. PRELIMINARY SURVEY OF THE ESSENTIAL CONDITIONS OF THE INDUSTRY.

The location and development of the iron and steel industry has been determined to a large extent by geographical and geological considerations. Its raw materials are heavy and their specific value is low. Freights therefore represent a considerable item in the cost of production, and for this reason the great metallurgical undertakings of to-day are grouped on the sites where they find their coke or their ore. The improvement of methods and processes of manufacture has accentuated this natural concentration. Owing, moreover, to the weight of commodities manufactured, it is important that the industry should be situated in such a manner as to have ready access to its main markets. It is these causes which have determined the concentration of the industry in the United Kingdom, Belgium, Luxemburg, France and Germany, near to the Cleveland ore and Durham coal, the Lorraine minette and Ruhr coke, or near to the sea-coast, rivers and canals which provide cheap transport facilities.

The nature of the industry has tended, moreover, towards a considerable degree of financial concentration and to large-scale production. It is obvious that the heavy tonnage, bulk and low relative value of the raw materials necessitate a costly plant and large output. The considerable capital required for opening up new iron mines renders big-scale production almost inevitable. The average capacity of blastfurnaces increases because, with the large tonnage handled, the return on the capital invested is increased. But the intensive working of the ore deposits involves a swifter amortisation of the capital, as well as the necessity of renewing the plant of the works frequently enough to keep pace with the advance in technical science. In the foundry also, large-scale production, where possible, is the most profitable; indeed, mass production is characteristic of modern methods of steel production.

The development of mechanical apparatus necessary for the handling of bulky raw materials has resulted in the number of workmen employed per unit of capital being relatively small. Wage costs are therefore directly proportionate to production while overhead expenses are constant, and costs of production therefore rise rapidly when work is below normal pressure. Large-scale and continuous production is thus essential to the prosperity of the industry.

In spite of these characteristics of the industry, which in normal times have prevented an unduly hasty development of output capacity, one of the main difficulties with which the industry in Europe is at present faced is the excess of capacity over actual requirements. This phenomenon must be attributed in the first instance to the war, which called forth a tremendous effort on the part of the belligerent countries for the manufacture of munitions and implements of war, and at the same time favoured the development of the industry in countries which, owing to the impossibility of obtaining metallurgical products from the majority of the belligerent Powers, were obliged to provide for their own needs to a greater degree than heretofore.

Moreover, the changes effected by the peace settlement in the political map of Europe have influenced the iron and steel industry more than any other. Germany, by the recession of Lorraine to France, the division of Upper Silesia, the separation of Luxemburg from the Zollverein and the incorporation of the Saar district in the French Customs area, lost about 80 per cent of her iron-ore production, 30 per cent of her coal production, 30 per cent of her steel-works and almost 30 per cent of her rolling-mills. On the other hand, France gained the blastfurnaces and steel-works of Alsace-Lorraine, and, through the division of Upper Silesia, Poland gained 0.3 per cent of the iron-ore production, 5 per cent of the pig iron, 7 per cent of the crude steel and 7.5 per cent of the sheet-iron output of pre-war Germany.

The effects of the change of frontier on the metallurgical industries of France and Germany are well known. The economic relations between the new Lorraine basin and Germany arose out of the highly developed system of exchange of products and the close ties which existed before the war between the mining and metallurgical centres located on the same territory and often belonging to the same owners relations which were either broken or rendered much more difficult. The breaking-up of the former Austro-Hungarian economic area had similar effects on the iron and steel industry in the Succession States. Lastly, the creation of the Polish State and the division of Upper Silesia were destined to create particular difficulties, not only because a political frontier had cut an economic area in two, but also because no machinery for exchange existed between Polish Silesia and Congress Poland.

The effect of the war, then, was at once to modify the world distribution of the iron and steel industry, to increase its productive capacity, and to disorganise the markets for raw materials and finished goods more especially on the continent of Europe. The necessary readjustment was bound to be difficult owing to the general impoverishment of Europe.

This readjustment was hindered by the difficulties incidental to the social and economic resettlement of mobilised populations, labour conflicts, etc., by political events, such as the occupation of the Ruhr and, above all, by the financial, monetary and price instability which has characterised recent years.

This instability has checked the willingness to save and hampered the accumulation of capital and hence the demand for capital goods, the typical products of the heavy-metal industry.

Despite the heavy task of reconstruction which the war imposed upon many European countries, therefore, the total demand for iron and steel products in Europe has not been up to the 1913 standard. As one currency after another has become stabilised, however, and confidence in money has gradually been restored, savings have gradually accumulated and the prospects of the industry to-day are in many respects better than they have been since 1918.

The year 1913, moreover, was one of exceptional prosperity, and in 1925 the total output of finished iron and steel products in Europe was about equal to that during

the last pre-war quinquennium. It was, however, far from being sufficient to occupy the whole of the greatly increased plant which Europe has inherited from the war years.

In 1925 the world produced about 2 million tons less pig iron and about 14 million tons more raw steel than in 1913. But, whereas the European output of pig iron had dropped by 9 million tons and of steel by about 2 million tons, that of the United States of America had increased by 6 and 14 million tons respectively. Moreover, the other parts of the world whose production before the war was insignificant have augmented their output both of pig iron and of steel by approximately 2 million tons. Pig iron is, however, the main raw material for the production of steel, though in the post-war period it has been replaced to a certain extent by scrap for that purpose. Moreover, the output of pig iron for finished iron products has dropped. Neither of the two production series, therefore, constitutes alone a true measure of the development of the heavy metal industry. In a later section, an attempt is made to measure very roughly the consumption of iron and steel products in such a manner as to avoid this difficulty.

The results of this analysis indicate that the aggregate consumption of iron and steel in the United States in the year 1925 was nearly half as big again as before the war, while the aggregate consumption in the leading European iron and steel countries had dropped by about 5 per cent. These countries have not been able to find compensation for the decline in their home consumption by increasing their exports to the other European countries and have been faced in their overseas markets by the competition of growing indigenous industries, so that their net exports in 1925 were even a little less than in 1913. Their total production of finished iron and steel therefore remained below that of the last pre-war year. This decline, however, was wholly due to the drop in the demand for wrought- and cast-iron products. Their output of steel products was actually greater in 1925 than in 1913.

As there was no prospect of any rapid or substantial increase in demand, industrialists began to consider whether it might be possible by means of international agreements, on the lines of the domestic agreements which existed before the war in certain countries, to adjust the total output to the estimated market requirements and to arrange for its equitable distribution. The negotiations initiated for this purpose led not only to an agreement between producers of rails similar to that which already existed before the war, but also to the Agreement between the steel manufacturers of France, Belgium, Germany and Luxemburg, concluded at Brussels on September 30th, 1926, the signatories to which have expressed a desire for its extension to the other great industrial countries. Austria, Czechoslovakia and Hungary have since adhered to this Agreement (see Annex VI giving the text of the Agreement and the share quotas).

Apart from providing for the apportionment of output between the countries concerned, the object of the Steel Agreement is, according to its authors, so far as possible to adapt actual production to immediate needs, or rather to enable such adaptations to take place in an orderly and regular manner, without the constant recurrence of crises. But, however great its practical utility, it does not solve the problem with which the iron and steel industry is ultimately faced: namely, how to restore the balance between the productive capacity of the iron and steel industry and the world's demand for iron and steel products. The opinion of many industrialists seems to be that the present productive capacity increased by the war would not be excessive if the general economic situation were to become normal again.

In the United States of America, consumption of iron and steel per head to-day is more than twice as great as the average consumption in the leading European countries. This fact points to the possibility of a considerable further development of the iron and steel industry in Europe. To what extent such a development is likely to take place in the near future it is obviously impossible to forecast. But the industry is mainly devoted to the production of capital goods and its prosperity must depend largely on savings and capital enterprise.

II. ACTUAL OUTPUT AND CAPACITY OF PRODUCTION.

The world produces at present as much pig iron as in 1913, the record pre-war year, and considerably more steel. But Europe produced in 1925 and 1926 some 20 per cent less pig iron and some 5 per cent less steel. We are not here concerned with the abnormal conditions of production prevailing during the war or with the slump of 1921, but it may be noted that the 1913 figure for pig iron was never attained in the war period and that for steel only exceeded by a few per cent during the period 1916-18. As will be seen from the detailed world production tables of Annex I, the depression in 1921 cut down the output much below the figures for any year of the last prewar quinquennium, the slump being particularly severe in the United Kingdom, largely as a result of the coal conflict of that year. In the United States, and, among the minor producing countries, in Canada, Czechoslovakia and Sweden, the slump extended over 1922; but since 1923 inclusive there has been a marked general recovery. The setback in Australia in 1922 and 1923 was due to labour disputes. The average world production of pig iron in the years 1923-26 exceeded that of the last four pre-war years by about 5 per cent; the increase in the case of steel amounted to 26 per cent.

The figures for 1926 in the Summary Table A below and in the Annex tables are largely estimates. For most of the countries, and for all leading producing countries, however, they are based on available monthly production statistics. For the others, estimates of the leading technical iron and steel reviews have been followed. Most of the figures and especially the totals for the various continents and for the world, therefore, are probably reliable approximations, though the increase in Asia may have been greater than is indicated. In the Annex tables, the pre-war production is shown as far as possible within both pre- and post-war frontiers for all countries which have undergone territorial changes.

The relative changes in production and the extent to which the output in the various countries in recent years has approached or exceeded the pre-war volume are

(Pig Iron	(INCLUDING FERRO-ALLOYS) AND STELL (INGOTS AND CASTINGS).	
	Production in metric tons (000's omitted).	

	Average 1 1909-1913	1913 6	1923	1924	1925	1926 7
PIG IRON						
North America	28,776	32,493	41,930	32,537	37,894	40,750
Canada	- 847	1,031	923	629	606	750
United States	27,929	31,462	41,007	31,908	37,288	40,000
Caribbean and South	27,020	01,102	11,007	01,000	07,200	10,000
America			45	50	50	50
Europe	39,199	45.662	25,872	33,248	36,508	35,730
Belgium	2,060	2,485	2,148	2,844	2,543	3,401
Czechoslovakia	(968)2	1,072	817	983	1,166	1,350
France	4,446	8,948	5,431	7,693	8,471	9,395
Germany	13,977	10,907	4,936	7,812	10,177	9,642
	334	427	236	304	482	522
Italy Luxemburg	2,104	2,677	1,406	2,157	2,346	2,512
Poland	(1,010)3	2,077	520	334	2,340	328
		4,220	530	757	1,551	2,430
Russia	3,668	4,220	1.021	1,389	1,453	2,430
Saar	1,244 4		400	497	1,455	1,058
Spain	408	425				- + -
Sweden	629	742	302	535	463	480
United Kingdom .	9,770	10,425	7,560	7,424	6,337	2,482
Other Countries .	1,803 5	932	565	519	671	1,000
Asia	300	607	1,806	2,079	2,038 7	2,150
Oceania	37	47	335	423	446	500
World Total .	68,312	78,809	69,988	68,337	76,936 7	79,180
STEEL						
North America	28,527	32,862	46,560	39,199	46,886	50,000
Canada	835	1,060	897	660	766	790
United States	27,692	31,802	45,663	38,539	46,120	49,210
Europe	36,401	43,361	30,460	37,628	41,617	41.525
Belgium	2,138	2,467	2,297	2,875	2,549	3,374
Czechoslovakia	$(1,050)^2$	1,229	1,180	1,350	1,500 7	1,600
France	3,883	6,973	5,109	6,900	7,415	8,386
Germany	14,547	12,236	6,305	9,835	12,194	12,340
	958	934	1,219	1,358	1,785	1,712
Italy	854	1,336	1.201	1,886	2,084	2,245
Poland	(1,536)*	1,661	1.132	682	782	790
Russia	3,964	4,212	726	1,139	2,149	3,120
	0,004	2,080	997	1,447	1,575	1.734
	304	2,080	476	545	626	650
Spain	618	749	310	550	518	519
Sweden	6,742	7,787	8,617	8,332	7,517	3,620
United Kingdom .	2,393 5	1,455	891	729	923	1,435
Other Countries .	2,393 *	$^{1,455}_{346}$	1,377	1.639	1,800 7	1,900
Asia	500	540 14	1,377 147	302	469	500
Oceania		1#		·		
World Total .	65,228	76,583	78,544	78,768	90,772 7	93,925

1WOTH TOTAL .05,22070,38378,54478,76890,772 *93,9251 The figures for the European countries (with the exception of Poland and Czechoslovakia) referto pre-war boundaries, the production in 1909-1912 within post-war boundaries being impossible toascertain (more especially as regards steel) in the case of several countries affected by territorial changes.* Included in the figure for Austria-Hungary which is grouped with Other Countries.* Average 1911-1913 included in the figures for Germany and Russia.* Included in the figure for Germany.* Included in the figure for Germany.* Including the former Austro-Hungarian Empire, the average production of which in 1909-1913was 1,793,000 tons of pig-iron and 2,374,000 tons of steel.• Production within post-war frontiers; for production figures referring to pre-war territories seeTables 2 and 3 of Annex I.* Provisional figures.

Table B.

PERCENTAGE DISTRIBUTION AND DEVELOPMENT OF THE WORLD PRODUCTION OF PIG IRON (INCLUDING FERRO-ALLOYS) AND STEEL (INGOTS AND CASTINGS).

(INCLUD)	ING FERRO-	ALLOYS) A	ND STEEL	(INGOIS A	IND GASTIT		
	1913	1923	1924	1925	1926	1925	1926
	Produc- tion ¹ as % of total	product	ion in each ion within	year as % post-war l	of 1913 rontiers		on as % otal
Pig Iron		2	8	2	- 2		
North America	41.23	129	100	117	125	49.25	51.46
Canada	1.31	90	61	59	73	0.79	0.95
U. S. A	39.92	130	101	119	127	48.46	50.52
Caribbean	00.02					0.07	0.06
Europe	57.94	57	73	80	78	47.45	45.13
Belgium.	3.15	86	114	102	137	3.30	4.29
Czechoslovakia.	1.36	76	92	121	126	1.52	1,71
France	11.35	61	86	95	105	11.01	11.87
Germany	13.84	45	72	93	88	13.23	12.18
Italy	0.55	55	71	113	122	0.63	0.66
Luxemburg	3.40	53	81	88	94	3.05	3.17
Poland	1.31	50	32	31	32	0.41	0.41
Russia	5.35	13	18	37	58	2.02	3.07
Saar	1.74	74	101	106	119	1.89	2.07
Spain	0.54	94	117	125	129	0.69	0.69
Sweden	0.94	41	72	62	65	0.60	0.61
United Kingdom.	13.23	73	71	61	24	8.24	3.13
Other Countries .	1.18	61	56	72	107	0.86	1.27
Asia	0.77	298	343	336	354	2.65	2.72
Oceania	0.06	713	900	949	1,064	0.58	0.63
World Total .	100	89	87	98	100	100	100
STEEL		8		8			
North America	42.91	142	119	143	152	51.65	53.24
Canada	1.38	85	62	72	75	0.84	0.84
U. S. A	41.53	144	121	145	155	50.81	52.40
Europe	56.62	70	87	96	96	45.85	44.21
Belgium	3.22	93	117	103	137	2.81	3.59
Czechoslovakia.	1.60	96	110	122	130	1.65	1.70
France	9.11	73	99	106	120	8.17	8.93
Germany	15.96	51	80	100	101	13.43	13.14
Italy	1.22	131	145	191	183	1.97	1.82
Luxemburg	1.74	90	141	156	168	2.30	2.39
Poland	2.17	68	41	47	48	0.86	0.84
Russia	5.50	17	27	51	74	2.37	3.32
Saar	2.72	48	70	76	83	1.74	1.85
Spain	0.32	197	225	259	269	0.69	0.69
Sweden	0.98	41	73	69	69	0.57	0.55
United Kingdom.	10.16	111	107	97	46	8.28	3.86
Other Countries .	1.92	61	50	63	99	1.02	1.53
-Asia	0.45	398	474	520	549	1.98	2.02
Oceania	0.02	1,050	2,157	3,350	3,571	0.52	0.53
World Total .	100	03	103	119	123	100	100

¹ Production within post-war boundaries.

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	² Production in each year	as	per	centage	of average	production	in 1909-13	(pig iron)	:
					1923	1924	1925	1926	
	North America				146	113	132	142	
•	Europe	•		• •	66	85	93	91	
	World Total	•		• •	102	100	113	116	
	³ Production in each year	as	per	centage	of average	production	in 1909-13	(steel):	
					1923 Č	1924	1925	1926	
	North America				163	137	164	174	
	Europe	•	•••		84	103	. 114	114	
	World Total	•	•••	• •	120	121	139	144	

shown in Table B on the preceding page and Tables 4-7 of Annex I. Table B gives, in summary form, the percentage distribution of world production in 1913 (post-war territories), 1925 and 1926 and the percentages which the production in each year 1923-26 constituted of that in 1913 (post-war territories)¹. Pig iron includes in all tables ferro-alloys for most countries and raw steel includes ingots and castings.

The iron and steel industry was exceptionally prosperous during the year 1913, and for this reason comparison should be made rather with the average figures for the quinquennium 1909-13. In the case of certain European countries, however, such a comparison is complicated by the fact that it is only possible to calculate the average production of the whole quinquennium for pre-war territories, comparable production figures for post-war territories not being available for the years 1909-1912 (see detailed Annex tables).

In 1926 the world production of pig iron and ferro-alloys very nearly attained the record figure of 1913, and exceeded the 1909-13 average by 16 per cent, while the production of steel ingots and castings exceeded the pre-war maximum by almost 23 per cent, and the quinquennial average by 44 per cent.

This advance, however, was almost wholly due to the unparalleled development of the iron and steel industry of the United States, where the production of pig iron was 22 per cent greater than in 1913 and that of steel almost 55 per cent greater (or 47 and 78 per cent respectively as compared with the average for the years 1909-13).

The other continents of the world, with the exception of Europe, have likewise made a remarkable advance, their pig-iron output being more than threefold and their steel production about sixfold that of 1913. Their heavy-metal industry before the war, however, was insignificant and is still relatively unimportant with an aggregate output of less than 4 per cent of the pig iron and less than 3 per cent of the steel production of the world.

The position of Europe in regard to the production of iron and steel is much less satisfactory, in spite of a remarkable recovery in recent years and more especially in 1924 and 1925. Immediately before the war, 57-58 per cent of all the pig iron and about 56 per cent of all the raw steel of the world were produced in Europe. By 1920, Europe's shares in the world output of pig iron and steel had dropped to 36 and 37 per cent respectively. In subsequent years the previous balance was largely restored, but North America has maintained the leading position (except for pig iron in 1924, which was a comparatively unfavourable year for the American iron and steel industry), and in 1925 it produced 49 per cent of the world output of pig iron against 47 per cent in Europe and almost 52 per cent of the raw steel against 46 per cent in Europe. In 1926 the balance turned once more against Europe, mainly as a result of the slump in the British iron and steel industry consequent upon the coal conflict, the reduction in the British production being only just counterbalanced by the increase in that of the other European countries. The actual percentages were for pig iron: North America 51 against Europe 45; and for steel: North America 53 against Europe 44.

¹ The Annex tables give full details for all countries and show the distribution of pre-war production on the basis of both pre- and post-war territories and the percentage development calculated on the basis both of the 1913 production and the average annual output in the period 1909-1913.

Europe's production of pig iron in 1925 was still short of the 1913 figure by 20 per cent and of the average for 1909-13 by 7 per cent, and its output of rawsteel was 5 per cent less than in 1913 but 14 per cent greater than the 1909-13 average. The main causes of this slow recovery have already been discussed in the introductory section.

In the light of the comparative figures here given for the various continents the fact should be once more emphasised that the difficulties of the iron and steel industries mainly concern Europe, and within Europe the conditions of the industry have varied very widely from country to country.

Spain has more than doubled its steel production since 1913. In Italy in 1926 output was 83 per cent, in Luxemburg 68 per cent, in Belgium 35 per cent and in Czechoslovakia about 30 per cent greater than in 1913. But since 1923 a striking recovery in steel production has taken place in Germany, France and Russia. In 1926 Germany produced slightly more and France almost 20 per cent more steel than in 1913 within their present frontiers. In 1926 the first important results of the reconstructed or newly established iron and steel industry in the Kingdom of the Serbs, Croats and Slovenes became visible ¹. On the other hand, the steel production of the United Kingdom, which in 1923 largely exceeded that in 1913, contracted steadily in subsequent years. The output of Poland has dropped below half of the 1913 figure and that of Russia, Hungary, Sweden and the Saar Territory is likewise still considerably below the 1913 level.

Belgium, Czechoslovakia, Italy and Spain have also increased their production of pig iron, Belgium by more than a third and Spain and Czechoslovakia by about a quarter. The output in Luxemburg and France (post-war frontiers) was about the same in both the years under consideration, while the other more important European pig-iron producing countries, except the Saar, where there has been an increase of 17 per cent, were below the 1913 standard.

It is interesting to observe that in 1926 the output of pig iron in Europe, excluding the United Kingdom, was 10 per cent higher than in 1925, and that of steel 11 per cent higher (the corresponding figures for the North-American continent being 7 and 9 per cent respectively). This increase was sufficient to outweigh the deficiency in the steel production of the United Kingdom and not far from sufficient to cover the drop in its pig-iron production. According to available American forecasts, the United States iron and steel production is not expected in 1927 to attain the record figures of 1926. In the case of Europe, a forecast is much more difficult to make for many reasons which cannot be entered upon here. But taking into consideration on the one hand the re-opening of the British iron and steel works after the closure of the coal dispute and, on the other, the slowly improving business conditions in many other countries, there would appear to be reason to believe that the production level of the two last years will at least be maintained. This, then, would mean a certain readjustment of the balance of the iron and steel production in favour of Europe.

A study of the figures in Table A will show that, while in the pre-war period 1909-13 on an average about 5 per cent more pig iron than raw steel was produced in the world, the balance was changed during and after the war with the result that, in the period

¹ The estimates for 1926 are those of the Stahl und Eisen.

1923-26, the world produced 16 per cent, and in 1926, 19 per cent more raw steel than pig iron. This shifting of the balance is practically universal and has been due, in part, to increased utilisation of scrap (which became plentiful during the war) as raw material for steel production, but mainly to the substitution of steel for wrought and cast iron. This point is further discussed and illustrated below in the section dealing with consumption.

It follows from what has been said that the production figures for steel are more indicative of the final demand ¹ for heavy metals than those for pig iron. Though for Europe as a whole the figures do not indicate any very important reduction in the effective demand in recent years as compared with the pre-war record of 1913, it is true that a considerable expansion of the demand between 1913 and 1926 would normally have been looked for. Meanwhile, the productive capacity of the industry, more especially in the case of steel, has been greatly increased. The difficulties with which the industry is faced, therefore, are mainly due — apart from temporary monetary causes — to the discrepancy between the technical or theoretical capacity and the actual output. But in certain European countries the whole economic structure of the industry is considered to require overhauling.

Although the information available concerning the capacity of the industry is incomplete and does not permit of any direct comparisons being made, a general idea of the position may be obtained from such estimates as do exist for the more important iron and steel countries. In so far as these estimates refer to theoretical capacity, however, the figures arrived at exaggerate the immediate potentialities of the industry. The American Iron and Steel Institute defines the *theoretical capacity* as "the capacity of existing plants in condition to operate" on a fixed date, and the *practical capacity* as "the production that may be attained in a year of maximum demand." In regard to these definitions the Institute makes the following remark:

"Individual plants or individual units of plants all have a record or maximum production for some one month which cannot be maintained throughout a year. Accidents, interruptions for repairs, holidays and various other causes and conditions reduce the yearly output."

On the basis of these considerations, the Institute made the following estimate at the end of 1925 of the annual productive capacity for pig iron and steel ingots of the United States:

	Theoretical capacity	Practical capacity
Pig iron	50,500,000 long tons	45,000,000 long tons
Steel ingots	56,000,000 » »	50,000,000 » »

Ferro-alloys are not included with pig iron, nor castings with steel. The actual production of pig iron was 36,300,000 long tons in 1925 and 39,100,000 in 1926 and the production of steel ingots 44,140,000 and 47,135,000 long tons respectively. (The

¹ As the steel industry produces on orders and, generally, not for stocks, the production figures can be taken as representative of the demand.

production of steel castings was 1,250,000 long tons in 1925 and may be estimated at about 1,350,000 tons in 1926.) The theoretical capacity at the end of 1925 thus exceeded the average production of pig iron in 1925-26 by 34 per cent and of steel ingots by 23 per cent, while the estimated practical capacity showed an excess of 20 per cent and 10 per cent.

The capacity figures quoted above do not include plants which had long been idle or were not likely to resume operations in the near future. They are therefore not directly comparable with the earlier capacity statistics of the Institute, which comprise all completed blast and steel furnaces. Judging from these statistics, however, the theoretical capacity of all blastfurnaces, active and idle, would appear to have increased by almost 25 per cent from the end of 1913 to the end of 1925 and that of the raw-steel works (ingots and castings) by roughly 50 per cent. Estimates of the practical capacity do not exist for any year previous to 1925. It will be observed, however, that the above percentages of the increase in capacity are in close agreement with those for production shown in Table B and in Tables 6 and 7 of Annex I.

Parallel with this increase in capacity and actual production, there has been a reduction in the total number of existing blastfurnaces from 462 in 1913 (473 in 1910) to 395 at the end of 1925. The last-mentioned figure includes 36 furnaces which have long been idle or were not likely to resume operations in the near future. In addition, there were 121 blastfurnaces temporarily idle. Of the 444 completed steel plants existing on the same date 55 were idle. Comparable pre-war figures for the total number of raw-steel plants do not exist.

In the United Kingdom there has likewise been a reduction in the number of blastfurnaces and a still greater reduction in the activity of those in existence, as will be seen from the following statement prepared from the statistics of the National Federation of Iron and Steel Manufacturers 1:

	Total number in existence	Furnaces in course of erection	Number out of blast 5 years or more	Average num- ber in blast during year
1913				338
1920	481	17	38	285
1921	486	12	43	95
1922	485	12	39	132
1923	482	12	51	203
1924	475	7	65	185
1925	461	6	106	149
1926 (JanApril)	 -			(145)
1926 (May-Nov.)	—			(9)
1926 (JanDec.)		-		56

Of the 482 blastfurnaces existing at the end of 1923, having regard to their equipment, 366 could be blowing at one time ². Since the war the maximum number blowing

¹ National Federation of Iron and Steel Manufacturers: Statistics of the Iron and Steel Indus-tries (annual) and *Statistical Bulletin (Monthly)*.

⁴ Information supplied by National Federation of Iron and Steel Manufacturers.

at any one time was 303 in September 1920. According to the estimates of the Federation, the effective pig-iron capacity (corresponding to what has been defined above as practical capacity) increased from about 11 million tons in 1913 to about 12 million tons in recent years, whereas the raw steel (ingots and castings) capacity was expanded by somewhat over 50 per cent from about 8 million to more than 12 million tons. The total number of open-hearth furnaces of the United Kingdom in the same period increased from 546 to 673. There are no statistics available with regard to the activity of these furnaces. A comparison with Table A, however, will show that the above capacity figures exceeded the actual average production in 1923-25 by more than 45 per cent for raw steel and almost 70 per cent for pig iron (or that steel production represented less than 70 and pig-iron output about 60 per cent of the practical output capacity).

In its "Memorandum on the German Iron and Steel Industry," the Fachgruppe der Eisen Schaffenden Industrie states that exact figures for the production capacity are not available. The number of blastfurnaces in existence in 1913 within the *German Customs Area* was 376, of which 46 were in Luxemburg, 64 in Lorraine, 28 in the Saar Territory, 21 in the present Polish Upper Silesia and the remaining 217 on post-war German territory. Measured according to the 1913 output, Germany, as a result of the war, has lost 42 per cent of its pig iron, 37 per cent of its raw steel and 34 per cent of its rolling-mill production. At the end of 1925, there existed in Germany 211 and, at the end of 1926, 206 blastfurnaces.

According to German official statistics,¹ 204 blastfurnaces were blowing in 1913 on the present territory and 141 in 1925. On an average, a little more than 100 furnaces were in blast in 1925 and about 90 in 1926^2 . In the above-mentioned "Memorandum on the German Iron and Steel Industry", the production capacity of the present blastfurnaces is stated to be "not inconsiderably greater" than that of the furnaces existing before the war on the present territory. Judging from the statistics compiled by the Verein Deutscher Eisen und Stahl Industrieller, the theoretical capacity of the German blastfurnaces, in spite of the reduction in their absolute number, was increased by about 40 per cent from the end of 1922 to the end of 1926. The participation figures of the *Rohstahlgemeinschaft*, which exceed 15 million tons, offer a certain basis for a rough estimate of the productive capacity of the raw-steel works, which would appear to be at any rate, more than one-third in excess of the actual output in 1925 and 1926.

France possessed before the war 164 blastfurnaces, and obtained through the territorial changes after the war 68 furnaces situated in Lorraine. There are no exact pre- or post-war capacity figures available, but the Comité des Forges estimates the theoretical capacity of all blastfurnaces in existence on the present territory at about the double of those existing on the pre-war territory (*i.e.* excluding those in Lorraine). In this estimate are included furnaces damaged during the war which were under reconstruction at the end of 1926. The following statement, prepared from the statistics

¹ Statistisches Jahrbuch.

² Stahl und Eisen : « Ermittlungen des Vereins Deutscher Eisen und Stahl Industrieller ».

of the Comité des Forges, will give an idea of the progress which has been made in reconstruction and of the activity of the pig-iron industry since the end of 1921:

Number of Blastfurnaces.

End of	In Blast	Under reconstruction or repair	Idle	Total
1921	73	64	83	220
1922	116	48	55	219
1923	127	43	49	219
1924	133	48	39	220
1925	147	43	29	219
1926	154	30	33	217

At the end of 1913, 129 furnaces were blowing and 35 idle. Tables 2 and 6 of Annex I show that the French pig-iron production in 1926 was about 80 per cent bigger than that in 1913 on the former territory, and 115 per cent bigger than the average production in 1909-13 for the same territory.

The wrought- and cast-iron branches of the industry were particularly developed in the northern districts of France devastated during the war, and capacity is now less than in 1913, as it has not been considered worth while to reconstruct a number of the damaged works in view of the diminishing demand for their products. No estimates of the output capacity of the French raw-steel industry are available.

For the iron and steel industries of *Belgium* and *Luxemburg*, precise capacity figures are likewise lacking. The increase in the actual production both of pig iron and steel, however, would appear to be in general harmony with the expansion in output capacity. Of the 55 blastfurnaces in existence in Belgium, 52-53 were in blast in the second quarter, and all 55 in the greater part of the second half-year of 1926. Since March 1926, according to a statement of the General Board of the Mines, the iron and steel industry has worked at full capacity. Of the 45 blastfurnaces of Luxemburg, 33-37 on an average were in blast in 1925. The average proportion of active furnaces would appear to have been still higher in 1926, which has been an exceptionally good year for the Luxemburg industry.

The pre-war output capacity of *Italy* was very much greater for steel than for pig iron. Owing to the enlargement of the steel-works during the war, this difference has become still more accentuated. Only 12 coke blastfurnaces and 2 electric furnaces exist in Italy. There are no absolute or relative capacity figures available.

Such figures are likewise lacking for *Czechoslovakia*. For *Poland* the following figures have been submitted:

Pig Iron ¹ .	1913	1926
Blastfurnaces ready for use	34	24
Productive capacity (tons) $$.	1,165,300	806,850

¹ Information supplied direct.

Raw Steel.

Martin furnaces rea	ıdy	for	use				69	54
Thomas converters	»	»	»	•	•		5	5
Electric furnaces	»	»	»			•	5	5
Aggregate productiv	ve o	apa	city	7 (t	or	ıs)	1,714,000	1,483,000

The practical productive capacity (present Polish territory) has thus fallen by 30 per cent in the case of pig iron and by 13 per cent in the case of raw steel. The actual output of pig iron in 1926 represented less than 40 per cent and that of raw steel less than 54 per cent of the practical capacity.

The capacity of the rolling-mills is difficult to ascertain on account of the variety of the products and the character of the equipment, but is largely dependent upon that of the raw-steel works with which they generally are combined. Capacity figures are not available for any country.

An examination of the detailed tables of the actual output of finished and semifinished iron and steel products of nine countries (Belgium, Czechoslovakia, France, Germany, Luxemburg, Poland, Sweden, the United Kingdom and the United States) given in Annex I (Tables 8-16) will explain why no attempt has been made to draw up a comparative statement. The systems of classification are too different to make it possible to summarise the various products according to a common scheme. Moreover, for certain countries pre-war figures are missing, or are not comparable with the post-war statistics for various reasons such as territorial changes and alterations in the classification of the products. Even articles or groups with more or less identical denominations are not strictly comparable 'from country to country.

The above reservations, however, do not seriously affect the value and interest of the tables as a basis for general comparisons of the range of production in the different countries and of the changes which have occurred in the period under review.

Germany is by far the biggest producer of finished steel in Europe. Its output of finished steel products in 1925 was almost double that of France and more than 40 per cent greater than that of the United Kingdom. Luxemburg, Belgium and Sweden produce in proportion more semi-finished steel for sale and export than the other countries here considered.

With regard to the composition of the output of finished products, the tables show that merchant steels are of the greatest relative importance in France, Belgium and Luxemburg, and plates and sheets and constructional steel in the United Kingdom and Germany, the last-mentioned country being, moreover, the most important rail producer in Europe. Plates and sheets form likewise the most outstanding group in the production of the steel mills in the United States and have increased in recent years more than any other group, a fact which presumably is due, at least in part, to the demand of the automobile industry.

The figures of the output of wrought iron in the United Kingdom illustrate the tendency for its substitution by steel. In 1913, the British ironworks produced 1,225,000 metric tons of puddled bars, scrap, ball and bushelling bars. By 1920

the output had dropped to less than one million and in 1925 to only 420,000 metric tons, whereas the British steel production remained practically unchanged.

III. LABOUR CONDITIONS.

The information available concerning the conditions of labour within the iron and steel industries of the various countries, more especially in regard to the number of hands, unemployment, hours of work, output per head, and wages, is incomplete and heterogeneous and does not lend itself readily to international comparisons. The main obstacle to an international comparison of the labour conditions of any particular industry or branch of industry arises from differences of classification and organisation. Thus only part, and a varying part, of the workmen classified as iron and steel workers are actually occupied in the heavy iron and steel industry proper.

The number of hands attached to a particular branch of the industry such as the blastfurnaces, the foundries and the rolling-mills, varies even over short periods according to the activity of the industry and a number of other factors. There are no complete figures available showing the increase or decrease since 1913 in the number of hands occupied within the different branches of the industry of the various countries. In recent years, France and Luxemburg have experienced a lack in the supply of domestic labour for their iron and steel industries and have had to employ foreign labour to a certain extent. In Belgium the conditions of employment have also been favourable, whereas in the United Kingdom the unemployment in 1924–25 has varied from 15 to 20 per cent. In Sweden, Poland and the Central European countries, the conditions of employment in the iron and steel industries have likewise been, and still are, far from satisfactory.

For Germany no separate unemployment figures for iron and steel workers are available, but the Reichsverband der Deutschen Industrie states that the unemployment in the branches here concerned is considerable and has increased since 1925 partly as a result of the "rationalisation" of the industry. In the opinion of the Reichsverband, it will not be possible in the future, even with increased production, to reabsorb within the iron and steel industry all the unemployed who were formerly occupied in that industry.

It follows from what has already been said that no comparison of the output per head can be made from country to country and, even in a single country, such calculations embracing the whole industry are extremely difficult, if not impossible, to make.

A fundamental change has taken place in the European iron and steel industry since before the war in regard to hours of work, inasmuch as the three-shift system has generally replaced the two-shift. It must be noted, however, on the one hand, that the eight-hour day was already in force before the war in certain regions, more especially of the United Kingdom, and that, on the other hand, even now it is not generally applied, even in the restricted manner which a continuous running of the furnaces may make necessary.

From the information received with respect to wages, no general conclusions can be drawn. This information, as well as that regarding other conditions of labour, is summarised in Annex II.

IV. RAW MATERIALS USED.

The situation of the iron and steel industries of the various countries in regard to the supply of their various raw materials, *i.e.* iron ore, iron and steel scrap, coal and coke, presents great dissimilarities. Owing to the bulky character of these materials and the consequent importance of transport charges, such inequalities entail a farreaching influence upon the competitive position of the industries.

The essential change, due to the war, in the geographical distribution of the iron-ore resources affects particularly France and Germany. Through the war and Luxemburg's withdrawal from the Customs Union with Germany, the German iron-ore industry lost the Lorraine-Luxemburg minette district, upon which it previously largely depended. The 1913 production of that district represented about 79 per cent of that of the whole The iron-ore production in the present Polish Upper Silesia was rela-Customs area. tively unimportant. As will be seen from the detailed iron-ore production table in Annex I (Table 1), the German output in recent years has remained somewhat below the pre-war output within the present frontiers. In spite of a very marked recovery in recent years, the French iron-ore production was, in 1925, still considerably below that of 1912 and 1913 within the present territory, though it exceeded the average for 1909-13. The output in the United Kingdom in 1925 had dropped to roughly twothirds of the pre-war average, and that of Spain to less than one-half. The Luxemburg production roughly equalled and that of Sweden considerably exceeded the 1909-13 average.

On the whole, the production of iron ore in Europe has dropped more than that of pig iron, and in the United States the increase in the output over the pre-war average has been less marked for ore than for pig iron, the increase in 1925 being less than onesixth for the former and roughly one-third for the latter. This phenomenon is no doubt due in part to the more successful extraction of metal from the ore, but also to the fact that the blastfurnaces during and after the war have become important consumers of scrap.

It is impossible to calculate for each country the average metal content of the ore produced, for it varies from district to district, and even between parts of the same district. In Great Britain, for instance, where it ranges from 22 to 23 per cent in Lincolnshire to 53 per cent in Cumberland, such an average would be of little value. In Germany the richest ores contain 41 per cent of metal, and the poorest 13.5 per cent.

5.

The Reichsverband der deutschen Industrie calculates the average metal content of the ores produced in 1924 and 1925 at about 35 per cent. In France the average content of ore is 32 to 37 per cent in the Lorraine area, and 48 to 52 per cent in the areas of secondary importance. In Sweden the content varies from 40 to 70 per cent, but three-quarters of the ore produced in 1925 averaged from 60 to 70 per cent. The iron content of Czechoslovak ore is estimated at 34 per cent for deposits in Bohemia and 35 per cent for Slovakia. In this connection it is interesting to note that ores with a metal content of less than 45 per cent are not considered worth extracting in the United States of America. Because of these differences and of the absence of statistics on the average content of the quantities of ore mined in each country, the output figures are not comparable between countries.

The extent to which the countries with great iron and steel industries are dependent on foreign countries for their iron ore and scrap is shown in Table C, which gives the production, imports, exports and consumption of iron ore, and the foreign trade in scrap. For the reason just given as to the metal content of the ore, this table is subject to the reservations referred to above.

For France, estimates, based on available trade figures for the Saar Territory, are made for the imports and exports during 1923 and 1924 for the Customs area to which the 1925 trade statistics refer, that is for the whole area of France plus that of the Saar.

More detailed tables for the trade in iron ore and scrap of each particular country here concerned are given in Annex IV. Similar figures for the trade in coke will be found in Annex IV to the *Memorandum on Coal*.

The trade figures for iron ore in Table C are partly supplemented by those in Table D showing the imports, by country of origin, of ore into the chief pig-iron producing countries, *i.e.* the Belgo-Luxemburg Economic Union, France, Germany, the United Kingdom and the United States. This table gives a general idea of the changes in the currents of the ore imports since the war.

The radical change in Germany's position with regard to the supply of iron ore has already been mentioned. Even before the war Germany was the greatest ore importer, but it had then to supply ore for a much greater industrial area, including Lorraine, the Saar and Luxemburg. This fact, of course, has to be remembered when comparing the changes in the figures given in the consumption column of Table C. The sources of the German ore imports have changed considerably. In spite of the transfer, of the mines of the formerly German part of Lorraine to France, German imports of French ore are now less than before the war. Whereas in 1913 one-third or 3.8 million tons of Germany's iron-ore imports came from France, in 1924 less than 6 per cent were purchased in that country. In 1925, however, the imports from France rose again to 10 per cent or 1.2 million tons, and in 1926 there would appear to have been a further increase.

The drop in the imports from France is partly due to the fact that French ore, before the war, played only a minor part in the supplies of the blastfurnaces situated within the present German frontiers. On the other hand, owing to the scarcity of good French coking coal, the blastfurnaces in Lorraine are largely dependent on imports of metallurgical coke from the Ruhr, but have been able to procure only part of their requirements from the German reparation deliveries.

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Table C.

Showing Production, TRADE AND CONSUMPTION OF IRON ORE AND TRADE IN SCRAP. Metric tons (000's omitted).

		- <u>-</u>		IRON OF	ξE.	,		Scrap	
Country	Year	Produc- tion	Imports	Exports	Trade balance*	Consump- tion	Imports	Exports	Trade balance
Belgium Belgium and Luxemburg .	$\begin{cases} 1913 \\ 1923 \\ 1924 \\ 1925 \end{cases}$	151 4,197 5,478 6,953	7,085 6,512 9,095 8,887	725 728 1,504 1,792	+ 6,360 + 5,784 + 7,591 + 7,095	6,511 9,981 13,069 14,048	122 195 111 61	153 45 102 108	$ \begin{array}{r} - & 31 \\ + & 150 \\ + & 9 \\ - & 47 \end{array} $
Czechoslovakia	1923 1924 1925	675 1,174	833 729 826	101 125 82	+ 732 + 604 + 744	1,407 1,778	157 116 133	10 1 3	+ 147 + 115 + 130
France	1913 1923 1 1924 1 1925 1	21,918 23,349 28,992 35,741	1,410 534 725 1,238	10,067 7,118 9,778 9,227	8,657 6,584 9,053 7,989	13,261 16,765 19,939 27,752	24 189 212 65	226 633 866 1,306	-202 -444 -654 -1,241
Germany	1909-13 1913 ² 1923 1924 1925	30,749 35,941 5,188 4,457 5,923	$\begin{array}{r} 11,030\\ 14,024\\ 2,377\\ 3,076\\ 11,540 \end{array}$	2,657 2,613 255 129 202	$\begin{array}{r} + & 8,373 \\ + & 11,411 \\ + & 2,122 \\ + & 2,947 \\ + & 11,338 \end{array}$	39,122 47,352 7,310 7,404 17,261	274 314 174 44 249	170 196 381 397 286	+ 104 + 118 - 207 - 353 - 37
Italy	1913 1923 1924 1925	603 341 238 513	8 5 79 309	10 85 83 	$ \begin{array}{c} - & 2 \\ - & 80 \\ - & 4 \\ + & 309 \end{array} $	601 261 234 822	326 434 538 958	7 — 1	$+ 319 \\+ 434 \\+ 538 \\+ 957$
Poland	1923 1924 1925	454 292 212	668 235 259	$-\frac{15}{27}$	+ 653 + 235 + 232	1,107 527 444	$300 \\ 152 \\ 163$	17 4 1	$^+$ 283 $^+$ 148 $^+$ 162
Spain	$1913 \\ 1923 \\ 1924 \\ 1925$	10,789 3,945 4,813 4,400		8,907 3,371 3,827 3,618		1,882 574 986 800 ^s			·
Sweden	1913 1923 1924 1925	7,476 5,588 6,500 8,169		6,440 4,766 5,731 8,343	6,437 4,766 5,731 8,343	1,039 822 769 (174)	70 18 38 12	8 12 4 9	+ 62 + 6 + 34 + 34
United Kingdom .	$1913 \\ 1923 \\ 1924 \\ 1925$	16,253 11,050 11,228 10,306	7,561 5,965 6,022 4,452	5 3 2 3	+ 7,556 + 5,962 + 6,020 + 4,449	23,809 17,012 17,248 14,755	125 215 459 - 91	119 118 89 112	$^{+}_{-}$ $^{6}_{-}$ $^{97}_{-}$ $^{10}_{-}$ $^{10}_{-}$ $^{10}_{-}$
United States	1913 1923 1924 1925	62,972 70,461 55,136 62,899	2,280 2,812 2,080 2,225	1,241 1,135 605 641	+ 1,039 + 1,677 + 1,475 + 1,584	64,011 72,138 56,611 64,483	$42 \\ 165 \\ 68 \\ 102$	105 67 100 84	63 + 98 32 + 18

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* Export surplus —. Import surplus +. ¹ Including Saar. ³ Pre-war territory including Luxemburg. ³ Estimate.

Table D.

IRON ORE: SOURCES OF SUPPLY Metric tons (000's omitted).

	i i]	Imports into:								
From:	Tot	al Expor	ts 1	I	Belgium 2		France					
	1913	1924	1925	1913	1924	1925	1913	1924	1925			
Belgium France Germany Luxemburg . Spain Sweden ⁷ Algeria Cuba Chile Other countries Total	725 10,067 2,613 5 8,907 6,440 1,413 ⁸	1,504 12,287 129 3,827 5,731 492* 965	1,792 9,227 ³ 202 6 3,618 8,343 1,234	4,754 116 1,578 153 256 4 228 7.085		8,211 2 138 486 4 - 4 52	$ \begin{array}{c} 21 \\ - & & \\ 807 \\ 4 \\ 458 \\ 41 \\ - \\ 4 \\ 83 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ 4 \\ - \\ - \\ 4 \\ - \\ - \\ 4 \\ - \\ - \\ 4 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	330 1 195 14 67 - 4 118 	719 40 20] 65 68 			
10tal				7,085	9,095	8,887	1,410	725	1,238			
				In	ports in	to:						
From:		Germany	,	Unit	ted King	dom	U. S. A.					
	1913	1924	1925	1913	1924	1925	1913	1924	1925			
Belgium France Germany Luxemburg . Spain Sweden 7 Algeria Cuba Chile Other countries	$ \begin{array}{c} 4 \\ 3,811 \\ $	$ \begin{array}{c} 4 \\ 180 \\ \\ 30 \\ 335 \\ 2,103 \\ 142 \\ \\ 4 \\ 286 \\ \end{array} $	4 1,201 355 1,388 7,455 385 	4 332 4 4,789 869 775 	4 515 4 2,690 1,072 1,137 	4 222 4 1,975 877 944 	+ + 4 119 279 1,523 359	+ + 72 323 196 290 1,163 36	$146 \\ 151 \\ 176 \\ 555 \\ 1,132 \\ 65$			
									•			

¹ Total exports of countries shown in first column.
² Belgium and Luxemburg in 1924 and 1925 constituted one Customs territory.
⁸ Including Saar.
⁴ Included in "Other countries".
⁶ Included in the exports of Germany.
⁶ Included in the exports of Belgium.
⁷ Imports from Norway representing mainly transit from Sweden are added to the figures for imports from Sweden.
⁸ Entirely for U. S. A.

The greater part — almost two-thirds — of the large German imports in 1925 were derived from Sweden, the iron ore exports of which country in that year, mainly on account of the increase in the German demand (from 4.9 million tons in 1913 to 7.4 million tons in 1925), greatly exceeded the 1913 volume. The increase in Germany's imports from Sweden is largely the outcome of contracts running to 1932 with Swedish mines based on fixed prices, and also of the diminution of German imports of Spanish ore. Contracts with Sweden existed before and during the war, but they were renewed, enlarged and extended by the Rhine-Westphalian iron and steel undertakings in 1923.

After Germany the largest iron-ore importers are the Belgo-Luxemburg Economic Union and the United Kingdom. As in 1913, almost the whole of the ore import of Belgium and Luxemburg comes from Lorraine. The setback in the British pig-iron industry with the consequent curtailment in its ore imports from Spain would appear to be the main cause of the depression in the iron-ore production of that country. In 1925 Sweden had the largest net exports of all iron-ore producing countries.

The results obtained by adding net imports to or subtracting net exports from production, constitute of course but a very rough measure of ore consumption. Reservations have been made above in regard to the comparability of different ores. Moreover, stocks which are not taken into account may falsify the results: thus in Sweden, in 1925, the exports were greater than the production. The actual ore consumption of the blastfurnaces in the United States and in Sweden is known and is shown below for 1923-25:

	U. S. A.	Sweden
	Metric tons (00	0's omitted)
1923	73,469	404
1924	56,566	682
1925	66,497	608

It will be noted that the figures for actual ore consumption in the United States are in good agreement with those shown in Table C. This is probably true also in the case of the other principal ore-consuming countries, whereas in Sweden, where only a minor part of the output is consumed within the country, the figures show very great discrepancies.

The great iron and steel manufacturing countries are also very differently placed as regards the supply of coke for their blastfurnaces. While the collieries of the United States and the United Kingdom can easily satisfy the needs of their iron-works, and the German industry itself converts in its coke ovens all the coal it needs (the production of metallurgical coke exceeds consumption in Germany), Italy, on the other hand, possessed no good coal before the annexation of Triest and Istria and these coalfields only yield about 150,000 tons a year. Italy is accordingly obliged to import about ten million tons of coal yearly. Her iron and steel industry therefore is even less favourably situated in this respect than in respect of iron ore. The return of Alsace-Lorraine to France has simultaneously increased that country's iron-ore resources and her coke requirements. In 1925, although there was an advance of about 500,000 tons in the manufacture of metallurgical coke in French ovens, and French Owing to the absence of national coal resources, the Luxemburg iron and steel industry is entirely dependent on foreign imports of coke and coal. As before the war, practically the whole of these imports came from the Ruhr, the Belgian coal and coke production being far from sufficient even for its own industry. In the Liége district, in 1925, according to information submitted by the General Board of the Belgian Mines, about 70 per cent of the coke production of the region was from foreign coal. In addition, considerable quantities of coke were imported, so that over three-quarters of the total fuel consumed is of foreign origin.

As mentioned in a previous section, scrap is now used to a much greater extent as raw material than before the war. Though the blastfurnace has become an important scrap consumer, scrap represents — as is emphasised in the observations submitted from Italy — a less suitable and economic raw material for pig iron than ore, and is used mainly as substitute for pig iron in the steel-works.

The Reichsverband der Deutschen Industrie estimates the scrap consumption in Germany in 1925 at 6.5 million tons as a minimum compared with 5.6 million tons in 1913 within the present frontiers. In France, according to the Comité des Forges, the scrap consumption of the steel-works alone rose from 1,474,000 tons in 1913 (present territory) to 2,848,000 in 1924 and 2,617,000 in 1925. There was likewise an increase in the scrap consumption of the Swedish steel-works in spite of a drop in the steel production of about 30 per cent in 1925 compared with 1913. According to estimates submitted from Poland, the scrap consumption of the steel-works situated within its present frontiers dropped from 942,000 tons in 1913 to 607,000 tons in 1925. The proportion of the scrap consumed to the raw steel produced, however, rose from 56.6 to 77.5 per cent. The corresponding proportion in German steel manufacture in 1925 is stated as 47 per cent and in the United Kingdom it rose from about 30 per cent in 1913 to roughly 50 per cent in 1925. In Czechoslovakia the proportion is said to be about 30 per cent. In Italy, where, even before the war, about half of the steel was produced from scrap, the post-war expansion in the steel output has been based almost exclusively on this raw material. Whereas the consumption of pig iron in the steel manufacture only rose from 482,000 tons in 1913 to 500,000 tons in 1925, that of scrap increased from 516,000 to 1,492,000 tons in the same period.

As regards the scrap trade (see Table C), a rapid and steady increase in the demand from Italy may be noted and also a marked increase in France's exports balance, due to the utilisation of old metal found on the battlefields and in the devastated regions, and also to the liquidation of American and British stocks. The increase in the German scrap exports in post-war as compared with pre-war years is mainly the outcome of the Geneva Agreement, under which Germany has undertaken to deliver up to June 15th, 1927, certain quantities of scrap to Polish Upper Silesia.

V. CUSTOMS TARIFFS.

In Table 1 of Annex III are shown the rates of Customs import duties in 1913 and 1926 in certain countries on a number of products of the iron and steel industry.

The articles chosen, although limited in number, are believed to be fairly typical and representative of the industry. It is difficult to choose a typical article equally applicable in all countries, because (a) the determining factor in Customs classifications differs from country to country (e.g. weight, diameter, thickness, content, value, etc.) and (b), when the determining factor is of the same kind in any two countries, the range of the specifications never, or very seldom, coincides (e.g. although countries A and B may both show rails, the one will make the dividing line at 15 kilograms and the other at 30 kilograms). This applies particularly to specific-rate tariffs and consequently particularly to Europe.

Apart from these difficulties, comparisons between specific and *ad valorem* rates cannot be made directly, and in certain countries the classification has been changed since the war.

For the Argentine and Brazil, the specific-rate equivalents have been shown in the table, because their so-called *ad valorem* rates are really specific in effect.

In view of the reservations made above, it is difficult to draw definite conclusions from the table. It would appear, however, from a general survey, that, although in many cases the post-war show an increase in rates over the pre-war years, nevertheless the *ad valorem* incidence of the tariffs has decreased, at any rate in Europe, when prices are taken into account. Thus the conventional rates of Czechoslovakia are lower in nearly all instances, and those of France in all instances so far as the most-favourednation countries are concerned. All the Austrian rates in 1925 were lower. In the Netherlands, the United Kingdom and Denmark, there are no duties. In Sweden there has been no change and in Germany but little. The Italian, Belgian and Swiss rates are higher, but if prices are taken into consideration the *ad valorem* rates work out for Italy at any rate probably at about the pre-war level. The same is true of Hungary except in the case of tool steel, where a high protective tariff has been imposed.

Spain and the Kingdom of the Serbs, Croats and Slovenes are the only European countries which can be said to show a decided increase in all cases. In Roumania only the gold rates for pig iron remain below the pre-war level; those for all other iron and steel products are higher than before the war.

In three of the countries further distant from the centre of the European industry — Canada, China and Brazil — rates have been but slightly modified, while in Japan the increase in specific rates has probably resulted in no *ad valorem* rise. In Australia and India the new duties are appreciably higher than the old, and in the Argentine an automatic rise has resulted from the raising of the valuation tariff by 60 per cent.

Owing to the conversion of the American tariff from an ad valorem to a specific

basis, comparison is rendered difficult. But rates would appear in balance to be higher now then they were.

In regard to the degree of protection of the iron and steel industries of the various countries, the National Federation of (British) Iron and Steel Manufacturers remarks that the depreciation of certain currencies has operated in exactly the same way as a Customs tariff.

VI. IMPORTS AND EXPORTS.

In Annex IV will be found a series of detailed tables showing the imports and exports by the principal producing and consuming countries of iron and steel products, including pig iron and raw steel. Owing to differences in the classification and arrangement of the trade statistics, the figures do not include identical articles for all countries and are not strictly comparable. But for each individual country they have as far as possible been rendered comparable for exports and for imports and from year to year. The pre-war figures refer, of course, to the then existing territorial divisions. The post-war figures for Germany and France are affected by the transfer of Alsace-Lorraine, those for Belgium and Poland are similarly affected by the inclusion in 1922 of Luxemburg within the former and of Upper Silesia within the latter Customs area.

The movement of the trade, like that of the production of the various countries has, of course, been influenced by a number of factors more or less temporary in character, such as exchange fluctuations, labour disputes (particularly in Belgium in 1925), the occupation of the Ruhr, etc., which should be borne in mind.

The following Table E, which is a summary of Table 2 of Annex III, shows the net imports or exports in 1913 and 1923-25 of (a) pig iron, (b) raw steel, (c) cast iron and steel products and (d) other iron and steel products for Belgium-Luxemburg, Czechoslovakia, France, Germany, Italy, Japan, Poland, Spain, Sweden, the United Kingdom and the United States. The figures for France for 1923 and 1924 have been adjusted in accordance with available data relative to the trade of the Saar with France and Germany in order to make them directly comparable with those of 1925 when the Saar was included in the French Customs territory.

The picture of the general situation displayed by the table is very similar to that afforded by the production statements above, except in the case of the United States of America. In that country the increase in the production in 1925 was accompanied by a fall in the export surplus to about one-third of the 1913 amount, domestic consumption having grown. But even in 1913 the exports were smaller in proportion to production than in any of the other important iron and steel countries. Parallel with the drop in the exports of finished iron and steel there has been an increase in the net imports of pig iron and raw steel, of which there was an export surplus in 1913.

As regards Europe, the table shows a steady increase in recent years in the export balances of France and the Belgo-Luxemburg Economic Union, though the latter suffered a slight decline in 1925 owing to the Charleroi strike. France is the greatest exporter of pig iron and raw steel. The Belgo-Luxemburg Economic Union takes the second place after France as an exporter of raw steel and is the leading exporter

Table E.

SHOWING SURPLUS EXPORTS OF IMPORTS OF PIG IRON, RAW STEEL AND STEEL PRODUCTS. (-) = export surplus. (+) = import surplus. Metric tons (000's omitted).

Country	Year	Pig iron	Raw steel ingots, blooms, billets, slabs	Cast-iron and steel products	Other iron and steel products	Total iron and steel
Belgium	1913 1923 1924 1925	+562 +249 +197 +228		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		$ \begin{array}{r} - 687 \\ - 1,979 \\ - 2,742 \\ - 2,574 \\ \end{array} $
Czechoslovakia	$\begin{array}{r} 1923 \\ 1924 \\ 1925 \end{array}$	168 18 21	} 1	1 }	$ 349 \\ 281 \\ 374$	$\begin{array}{cccc} & 517 \\ & 299 \\ & 395 \end{array}$
France	1913 1923 ² 1924 ² 1925 ²	63 412 590 659			93 697 869 983	458 1,902 2,679 3,710
Germany	1913 3 1923 1924 1925	$ \begin{array}{r}730 \\ +221 \\ +197 \\19 \end{array} $	-690 + 236 + 115 + 106	-193 118 95 51	-4,391 + 92 - 485 - 2,099	$ \begin{array}{r}6,004 \\ + 431 \\268 \\2,063 \\ \end{array} $
Italy	1913 1923 1924 1925	+221 +132 +197 +264	+ 7 + 5 + 30 + 150	+ 31 + 3 + 4 + 4 + 4	+ 232 + 74 + 140 + 359	$ \begin{array}{r} + & 491 \\ + & 214 \\ + & 371 \\ + & 777 \\ \end{array} $
Japan	1923 1924 1925	+ 366 + 457 + 316	1	1 {	+ 604 + 924 + 418	+ 970 + 1,381 + 734
Poland	1923 1924 1925	+ 93 + 10 + 12	$ - 96 \\ - 16 \\ - 12 $	-27 + 3 + 2		$ \begin{array}{c ccc} - & 162 \\ - & 73 \\ - & 48 \end{array} $
Spain	1913 1923 1924 1925		+ 95 + 184 + 179 + 213		+ 80 + 47 + 46 + 56	+ 175 + 231 + 225 + 269
Sweden	1913 1923 1924 1925		15 5 7 5	+ 7 + 12 + 8 + 8	$\begin{array}{rrrr} - & 121 \\ + & 53 \\ + & 101 \\ + & 56 \end{array}$	$\begin{array}{cccc} - & 224 \\ - & 13 \\ + & 54 \\ + & 30 \end{array}$
United Kingdom 4	1913 1923 1924 1925		+518 + 414 + 708 + 658	$ \begin{array}{r}216 \\69 \\52 \\53 \end{array} $		$\begin{array}{c}2,782 \\3,044 \\1,447 \\1,027 \end{array}$
United States	1913 1923 1924 1925	$- 135 \\+ 445 \\+ 235 \\+ 409$	$ \begin{array}{r} -213 \\ + 16 \\ + 35 \\ + 23 \\ \end{array} $	$ \begin{array}{r} 1 \\ 28 \\ 29 \\ 33 \end{array} $	$-2,350 \\ -1,819 \\ -1,472 \\ -1,329$	$\begin{array}{c c} - 2,698 \\ - 1,386 \\ - 1,231 \\ - 930 \end{array}$

¹ Not shown separately. ² The official trade statistics of France include the Saar in 1925. In the above table the figures for 1923 and 1924 have been adjusted in accordance with available figures for the iron and steel trade of France and Germany with the Saar in order to make them as far as possible comparable with the figures for 1925. ³ Pre-war Customs territory, including Luxemburg. ⁴ 1913 including Ireland; 1923-25 excluding Irish Free State.

of finished iron and steel, the slight decline in 1925 being due, as already mentioned, to temporary causes. Indeed, the combined net exports of iron and steel of France, Belgium and Luxemburg in 1925, after deducting reciprocal trade, was considerably bigger than the aggregate net exports of all other iron and steel exporting countries together.

The most striking feature of Table E, however, is the recovery, particularly in 1925, in the steel exports of Germany, which in 1923 were less than the imports.

On the other hand, there has been a steady decline since 1923 in the export balance of the United Kingdom, Poland and Sweden. Also Czechoslovakia's export surplus has dropped, mainly on account of the shrinkage in its pig iron exports. The net exports of iron and steel from the United Kingdom were bigger in 1923 than before the war. The subsequent falling-off is principally due to the marked increase in the imports of finished iron and steel, which in 1923 were abnormally low. The National Federation of (British) Iron and Steel Manufacturers remarks that the contraction of the imports in 1923 was largely due to the Ruhr occupation, which also was responsible for the expansion of the exports.

The main importing countries included in the table, namely Italy, Spain and Japan, have all greatly increased their imports in recent years; but, whereas in Italy and Japan the imports of finished iron and steel have increased in the same proportion as or more than those of pig iron and raw steel, in the case of Spain only the imports of raw products have grown, the net imports of finished iron and steel having dropped 30 to 40 per cent as compared with 1913.

In order to gauge the relative competitive power of the various countries, it is desirable to show their exports distinguished by country of destination. This is done in Table F below for the five great producing countries — Belgium, France, Germany, the United Kingdom and the United States of America — for the years 1913, 1924 and 1925.

This Table shows that the export markets of the leading continental countries are mainly European, whereas the European countries are of secondary importance for the British exports, of which in recent years as before the war only about one-fourth went to Europe. The Far East remains the principal market for the British products, and it is of interest to note that exports to Asia have declined much less than those to any of the other markets save Africa. All European countries are buying less from the United Kingdom, as too are the principal South-American countries, though the United Kingdom still remains their main source of supply. British exports to Australia and India have contracted in the face of the growing competition of the domestic industries.

Both the Belgo-Luxemburg Union and the United States have increased their exports to Asia, and Germany is now regaining her pre-war position in that market and exported much more iron and steel to the United States in 1925 than in 1913. Belgium has, moreover, considerably increased her exports to the United States of America and succeeded with France in obtaining an important position in the British and German domestic markets. About three-fourths of the French post-war exports to Belgium were in transit. The French trade statistics, therefore, do not render it possible to ascertain the ultimate destination of her exports, more especially to overseas markets.

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Table F. Exports of Iron and Steel Products. (000's omitted.)

Countries of destination	(From Jerman	у	and, i	m Belg in 1924 Luxem	·1925,		From France		Unit	From ed King	gdom	Un	From ited Sta	ates
	19131	1924	1925	1913	1924	1925	1913	1924	1925	1913	1924	1925	1913	1924	1925
Europe Scandinavian	M 4,331	etric to 604	ns 1,462		etric to 1,822		M 382	etric to <i>2,337</i>		L 1,213	ong tor <i>851</i>	is 720	L 346	ong tor 81	15 82
Countries Russia, Finland	432	206	201			<u> </u>			_	270	181	147	3	1	1
Baltic States United Kingd. Netherlands . Belgium Germany Saar	$160 \\ 1,205 \\ 600 \\ 646 \\$	13 125 114 7 	61 384 561 91 	434 108 11	1,127 113 414	1,177 129 183 —	17 289 17	516 993 360 196	709 1,210 647	146 126 199	 77 166 89	 102 112 76	270 11 23 6	55 2 10 1	51 3 5 1
France Spain and	225 61	2	1 19	66 31	97 57	77 26		_		203 82	123	73 57	3	3	9 2
Portugal Italy Switzerland . CentralEurope ²	290 337 243	18 46 56	36 46 45	21 	14 	117 		113 159	393 230	144 9 	84 93 7	75 106 7 	7 23 —	4 5 —	10
Balkan States North America . Canada United States	132 54 	14 18 	15 <i>145</i> 145		63 	<u> </u>				34 364 187 177	31 <i>255</i> 118 137	22 <i>266</i> 102 164		<i>500</i> 500	<i>589</i> 589
Caribbean Mexico Cuba and				-		_			_	<u> </u>	14	13 —	<i>211</i> 101	273 108	240 96
West Indies South America . Brazil Argentine Chile Other	484 } 484		3 3 3 	239 99 120 20						11 572 118 359 60 35	14 <i>381</i> 66 230 43 42	13 406 55 272 34 45	110 217 72 84 61	165 <i>154</i> 68 55 31	144 178 46 88 44
Asia India China Japan Other	527 213 } 314	237 71 142 24	329 125 142{ 62	250 139 54 57	524 244 139 141	343 162 57 124				1,405 896 86 238 185	<i>1,197</i> 599 104 239 255	1,122 633 74 135 280	262 29 38 151 44	417 24 54 288 51	398 27 195 127 49
Africa Egypt South Africa Other		$\begin{array}{c} 24\\ -24\\ -24\\\end{array}$	53 53 	84 39 45	82 54 28	89 64 25	80 	77	108 	444 63 261 120	37 <i>2</i> 44 207 121	443 43 218 182		31 	$\begin{array}{c} 24 \\ - \\ 24 \\ - \end{array}$
<i>Oceania</i> Australia New Zealand.				43 43 —	_	3 3 —		111		721 567 154	<i>591</i> 454 137	585 432 153	164 152 12	26 23 3	24 22 2
Unallocated 4 Other countries.	472 441	288 229	6155 6595	 288	59 516	18 581	69 99	174 230	352 226	239	 190		245	43 186	33 110
Total.	6,309	1,558	3,263	$\frac{200}{1,575}$	3,311	3,112		2,818	3,875	4,969			2,908		1,678
				.,						·	Equ	ivalent	in met	ric tons	

¹ Including Luxemburg.
² Including Austria-Hungary, Czechoslovakia and Poland.
³ Included in other countries.
⁴ The group "unallocated" in the table comprises the iron and steel products for which specification by countries of destination is not given in the trade statistics. The greater portion of the "unallocated" products was probably exported to the countries specified in the table, whereas the sums shown under "other countries" were not consigned to any of the countries specified.

* The increase in this item is mainly due to change of classification making a separation according to countries of destination mpossible in many cases

Table G.

EXPORTS OF IRON AND STEEL PRODUCTS *. Metric tons (000's omitted).

Articles and Years	Belgiu	IM 1	Franc	ce ²	Germa	any ⁸	United	Kingd.	United	States
	Quant.	%	Quant.	%	Quant.	%	Quant.	%	Quant.	%
Pig iron and ferro-alloys: 1913 1924 1925	17 130 97	1 4 3	113 784 710	18 28 18	856 67 226	14 4 7	1,142 610 569	23 16 15	292 46 39	10 3 2
Blooms, billets, ingots, etc.: 1913 1924 1925	159 731 92 3	10 22 30	321 1,319 2,096	51 47 54	701 47 108	11 3 3	4 11 5		235 5 4	<u> </u>
Construction iron and steel bars, angles, girders, beams, joists, etc.: 1913 1924 1925	745 1,462 1,313	47 44 42			590 56 119	9 4 4	522 395 343	10 10 9	631 288 307	21 16 18
Plates and sheets (including tin-plate), hoops and strips: 1913 1924 1925	202 258 275	13 - 8 - 9	14 74 229	2 2 6	1,837 441 960	29 28 30	1,603 1,777 1,663	32 45 44	644 657 692	22 38 41
Wire and rods: 1913 1924 1925	68 103 133	4 3 4	6 110 163	1 4 4	462 175 340	7 11 10	119 130 120	2 3 3	306 168 145	10 10 9
Rails, sleepers and fishplates: 1913 1924 1925	165 226 171	11 7 5	76 292 241	12 10 6	636 89 404	10 6 12	635 280 317	13 7 8	460 210 154	16 12 9
Tubes and pipes, etc.: 1913 1924 1925	6 17 21	1 1	5 19 70	1 2	- 409 123 310	7 8 10	406 256 291	8 7 8	287 245 276	10 14 16
Other iron and steel products 1913 1924 1925	213 384 179	14 11 6	95 220 366	15 8 10	818 560 796	13 - 36 24	618 456 483	12 12 13	100 119 88	3 7 5
Total: 1913 1924 1925	1,575 3,311 3,112	100 100 100	630 2,818 3,875	100 100 100	6,309 1,558 3,263	100 100 100	5,049 3,915 3,791	100 100 100	2,955 1,738 1,705	100 109 100

* Excluding ore and scrap.
¹ Including Luxemburg in 1924 and 1925.
² Including Saar in 1925.
⁸ In 1913 old territory including Luxemburg.

Owing to the differences from country to country of the classification adopted in the trade statistics, no statement of the trade in iron and steel products divided according to groups of products can be accepted without serious reservations. An attempt has been made, however, in Table G to divide these products into seven main groups. The result is not wholly satisfactory as, quite apart from the comparability of the seven groups themselves, in certain cases a very important share of the total exports fails to fall within the framework of this classification and has to be lumped under "Other iron and steel products". Full details will, however, be found in the individual tables of Annex IV.

It would be interesting to take stock of the trade in iron and steel products at various stages of manufacture between the great steel-producing countries and show the movement of this trade by groups of products; but such a table would be very difficult to draw up owing to the classification of the various Customs statistics, which differentiate between the semi-finished product and the finished product in different ways.

The percentages which the exports of each category of product form of each country's total exports of iron and steel show the main changes which have taken place since 1913 in the relative composition of these exports.

The most striking fact brought out by the table is the drop in the absolute and relative importance of the crude iron and steel (pig iron, ingots, blooms, billets, etc.) in the exports of Germany, the United Kingdom and the United States, and the increase of these articles in the exports of the Belgo-Luxemburg Union and France. Moreover, the exports by the three first-mentioned countries of construction steel, bars, angles, etc. have greatly diminished. The exports of permanent railway material (rails, sleepers and fishplates) from the United Kingdom and the United States show a similar, though even more marked, decline in recent as compared with pre-war years, whereas Germany in 1925 regained her former position. In the exports of plates and sheets, the United Kingdom and the United States have maintained or even strengthened their pre-war position — the former alone supplying about one-half of the quantity entering into the world's trade --- with the result that the relative importance of this group in the exports of these countries has greatly increased. This group of products has likewise increased in relative importance in France's steel exports as well as in those of Germany in spite of the drop, in the case of Germany, in the absolute figures.

VII. CONSUMPTION.

In order to estimate even roughly the consumption of iron and steel from the production and trade statistics certain adjustments have to be made. It is important to avoid double-counting the pig iron, but at the same time pig iron cannot be ignored altogether, for the consumption of raw steel does not constitute an accurate index of the total consumption of the products of the iron and steel industry owing to the fact that wrought and cast iron have in recent years been replaced to a considerable extent by the cheaper grades of finished steel. To the production of raw steel, therefore, must be added that part of the pig iron produced which was not used for the manufacture of steel. By combining the import or export balance of raw steel and semi-finished and finished iron and steel (as shown in Table E above)¹ with the sum thus obtained a figure for total consumption can be calculated. This consumption figure, although it fails to take into account on the one hand material wasted in the process of manufacture and on the other hand imports and exports of such finished products as machinery, etc., affords nevertheless a certain measure of the changes in consumption from one period to another.

Table H below shows the production, imports or exports, total consumption and consumption per head of iron and steel during the years 1913, 1923 and 1925, in Belgium, Czechoslovakia, France, Germany, Japan, Poland, Sweden, the United Kingdom and the United States of America.

The figures for total consumption in each country are necessarily of but limited interest owing to the territorial changes which have taken place, and more attention should be paid to those showing consumption per head, which afford a sort of rough index of the degree of industrialisation of the various countries. While the aggregate consumption of iron and steel of the United States shown in the table rose from approximately 36 million tons in 1913 to about 54 million tons in 1925, or by some 50 per cent, the aggregate consumption of the United Kingdom, Belgium, Luxemburg, Germany, the Saar, France and Italy (excluding the estimated production in Polish Upper Silesia), which happened in 1913 to be exactly the same as that of the United States of America, dropped to roughly 34 million tons in 1925 or by some 5 per cent.

The changes which have taken place in production and consumption of this group of European countries may be summarised as follows:

	1913 metric tons	1925 (000,000's)
Aggregate production of raw steel	33.7	34.9
steel ²	10.8	7.2
Total production	44.5	42.1
Less aggregate net exports of iron and steel, excluding pig iron		8.1
Consumption	36	34

¹ The imports and exports of pig iron are excluded from this calculation, the former because they are wholly or mainly included in the raw-steel production and the latter because they are wholly or mainly excluded from the net production of iron and steel as calculated above. ² The aggregate pig iron production of the countries in question was roughly 37.1 million tons in 1913 (excluding estimated production in the present Polish Upper Silesia) and 31.8 million tons in 1925. The portion representing pig iron not used as raw material for steel thus dropped from about 29 per cent of total pig iron production in 1913 to roughly 22-23 per cent in 1925.

Table H.

CONSUMPTION OF IRON AND STEEL.

Countries	Years	Produc- tion 1	Surplus ² Imp. + or exports —	Consump- tion	Con- sumption per head	Popula- tion
· · · · · · · · · · · · · · · · · · ·		Metric	tons (000's o	pmitted)	Kg.	(000's omitted)
Belgium Belgium & Luxemburg	1913 { 1923 { 1924	2,700 3,675 4,975	-1,249 -2,228 -2,939	1,451 1,447 2,036	190 182 254	7,638 7,937 8,005
Czechoslovakia	1925 1923	4,860 1,425	-2,802 - 349	2,058 1,076	255	8,073 13,972
Czechoslovakla	1923 1924 1925	1,425 1,650 1,850 3	$- 281 \\ - 374$	1,369 1,476	97 104	13,372 14,108 14,244
France	$\begin{cases} 1913 \\ 1923 \\ 1924 \\ 1925 \end{cases}$	6,400 7,850 10,650 11,350	- 395 - 960 - 1,395 - 3,051	6,005 6,890 9,255 8,299	151 170 228 203	39,790 40,473 40,633 40,793
Germany	1913 4 1923 1924 1925	22,806 7,500 11,265 14,398	$ \begin{array}{r} -5,274 \\ + 210 \\ - 465 \\ - 2,044 \\ \end{array} $	17,532 7,710 10,800 12,354	261 ⁵ 125 174 197 ⁵	67,225 61,718 62,107 62,572
Italy	1913 1923 1924 1925	1,070 1,285 1,438 1,942	+ 270 + 82 + 174 + 513	1,340 1,367 1,612 2,455	38 34 40 61	35,598 39,657 40,103 40,548
Japan 6	1923 1924 1925	1,125 1,275 1,400	+ 604 + 924 + 418	1,729 2,199 1,818	30 37 30	58,482 59,139 59,737
Poland	1923 1924 1925	1,175 740 875	$\begin{array}{ccc} - & 255 \\ - & 83 \\ - & 60 \end{array}$	920 657 815	32 23 28	28,515 28,882 29,249
Sweden	1913 1923 1924 1925	980 420 700 660	$ \begin{array}{r} - & 129 \\ + & 62 \\ + & 102 \\ + & 59 \\ \end{array} $	851 482 802 719	151 80 133 119	5,638 6,018 6,036 6,054
United Kingdom 7 .	1913 1923 1924 1925	12,700 11,525 11,250 9,800	$ \begin{array}{r} -4,859 \\ -2,250 \\ -1,152 \\ -749 \end{array} $	10,841 9,275 10,098 9,051	236 207 224 200	45,862 44,738 45,049 45,359
United States	1913 1923 1924 1925	38,425 54,150 45,500 55,350	$ \begin{array}{r}2,563 \\1,831 \\1,461 \\1,339 \end{array} $	$35,862 \\ 52,319 \\ 44,039 \\ 54,011$	372 468 387 468	96,512 111,693 113,727 115,378

Production of raw steel (ingots and castings) plus that part of pig iron production which is not used as raw material for steel (for the steel figures, see Table 3 of Annex I).
 Net imports or exports of iron and steel including raw steel, but excluding pig iron and scrap.

⁸ Estimate.

⁸ Estimate.
⁴ Pre-war Customs area including Luxemburg.
⁵ Calculated on the basis of a more restricted number of articles imported and exported as proposed by the *Fachgruppe der Eisen schaffenden Industrie*, the consumption figures were 262 kg. per head in 1913 and 206 kg. per head in 1925.
⁶ Information regarding the composition of the pig iron production not available; the quantities not pig iron included in the production column estimated on the assumption that the quantities not used as raw material for steel constitute about 30 per cent of the pig iron produced.
⁷ 1913 including Ireland; 1923-1925 excluding the Irish Free State.

It will be noted that the raw-steel production has actually increased and that aggregate net exports of the iron and steel products here concerned (less the net imports of such products into Italy) has slightly dropped in 1925 as compared with 1913. The fall in the consumption, therefore, was entirely due to the decline in the output of pig iron not converted into steel, that is, in the output of finished iron products.

The figures for consumption per head of population offer a similar, though rather less startling, picture of the developments of the iron and steel industry in the United States. The iron and steel consumption per capita, as calculated in Table H, increased in that country from 372 kg. in 1913 to 468 kg. in 1925, i.e. by a little over 23 per cent, while in the group of European countries mentioned above it has fallen from 184 to 172 kg. or by between 6 and 7 per cent. In this connection it should be remarked that the population of the United States increased much more rapidly during the years under review than that of these European countries. Taking the European production countries individually, it will be found that the per capita consumption has fallen as compared with the last pre-war year in Germany, the United Kingdom, Sweden and, in recent years, in Poland. The heavy drop in the German figures is, of course, in part explained by the loss of important iron and steel production districts. But, the recovery in German consumption since 1923 is striking. On the other hand, the British figures of the consumption per head are influenced by the fact that in 1913 the population of the whole of Ireland is included, while the post-war figures exclude the Irish Free State, where no doubt the demand for iron and steel is relatively low.

In Belgium, France, Italy, and, in recent years, Czechoslovakia, the iron and steel consumption per head of the population has increased relatively rapidly. The drop in the Belgo-Luxemburg consumption figure in 1925 was due to the extended strike in the Charleroi district.

VIII. PRICES.

In view of the striking contrast between the conditions of the industry in America and Europe which has been emphasised in preceding sections, a study of comparative price movements in these two continents would be of special interest. Unfortunately, it is almost impossible to make exact price comparisons for iron and steel. On account of integration of the production, a very great portion of the pig-iron output goes directly to the steel-works and of the raw steel to the rolling-mills of the same or associated undertakings. Only a fraction of the raw product therefore appears on the market, and this mainly as special qualities.

Moreover, apart from the difficulty of selecting internationally comparable products and qualities, emphasised in the observations submitted by the producers' associations, the instability of the exchanges in recent years precludes all possibility of exact measurements. Prices, too, are often calculated on different bases even within each individual country, transport charges being sometimes taken into account and sometimes not. Lastly, the real prices are often different from the base prices (*Richtpreise*), and the export prices from those applied to the home market. From such price statements as exist, however, certain general conclusions can be drawn.

Whereas the United States iron and steel prices in 1925 appeared to be at about the same level as the general price index for that country, the European prices at the end of that year — after an uninterrupted fall since the beginning of 1923 — lay much below the general level of wholesale prices in the various countries, except perhaps in Germany.

There were, moreover, great differences in the relative levels of the iron and steel prices in the different European countries. By the end of 1925, they would appear on an average to have been about 20-25 per cent above the prices ruling at the end of 1913 in the United Kingdom and Germany, whereas in France and Belgium, measured in gold according to the dollar exchange rate, they were actually below the 1913 quotations.

In 1926 the conditions did not change substantially, although there was a certain improvement in European iron and steel prices during the second half of the year, consequent upon the British coal conflict. On the other hand, there was a much bigger increase in the prices of coal and coke, which, as emphasised above, play a preponderating rôle as raw material of the industry.

IX. ORGANISATION OF THE INDUSTRY: AGREEMENTS. SELLING AND PURCHASING ORGANISATIONS.

After what was said in the first part of this memorandum as to the dimensions of the establishments and plant and the amount of capital invested in iron and steel works, there is no need of statistics to show that the industry, forced as it is to adopt large-scale production, is generally conducted in large undertakings, integration among these being common on account of the technical and economic advantages of such combination.

Indeed, an advanced stage of business concentration had been reached before the war in the iron and steel industry of a number of countries which took varied forms. It took the form "sometimes of a combine which by a policy of integration promoted the improvement of the processes of distribution and endeavoured to reduce the cost of production; sometimes of a rigorously disciplined cartel, where each member, dependent on the others for an even balance of production and consumption, is subjected to a severe control and turns over the commercial side of its undertaking to a selling organisation; and sometimes again of the mere *comptoir* (selling syndicate) seeking the advantages of co-operative selling "1.

DE ROUSIERS: "Les grandes industries modernes - La Métallurgie", page 282.

Examples of these three types of combination are afforded by the United States, Germany and France. The lesser degree of commercial concentration in Great Britain was due perhaps to the elasticity of a market offering better facilities for international trade than that of the other great iron and steel producing countries.

It should be observed, however, that even before the war the British rail makers had participated in the international agreements concluded at different times between German, French, Belgian, Russian and American rail manufacturers.

Since the war it is in Germany that industrial and commercial concentration in the iron and steel industry seems to have made the greatest strides. Thus, in 1926 the United Steel Works of the Ruhr were constituted (*Die Vereinigten Stahlwerke A.-G.*), a company with a capital of 800,000,000 marks, in which some of the principal metallurgical firms of the Ruhr have pooled their mines and their iron and steel works on an agreed basis of participation, in order to ensure unity of administration and joint technical and commercial exploitation. This group controls 41 per cent of the interests represented in the Raw Steel Union and about 36 per cent of the interests in the Rails and Rail-Sections Association and the Merchant Steel Associations.

The principal selling associations or agreements for the regulation of production existing to-day in Germany are the following:

The Roheisenverband, which includes almost all the blastfurnaces and sells all the pig-iron output of its members, except what is used in their own undertakings; the Rohstahlgemeinschaft, formed in November 1924, which includes almost all the steel works and regulates production according to demand on the basis of fixed quotas, but does not interfere with the distribution of orders nor with the selling or fixing of prices; the Stahlwerksverband, founded in 1904 as a selling organisation for certain rolled products (known as A products), dissolved in 1920 and reconstituted in July 1925, which comprises in its new form, in addition to a selling association for A products, other syndicates for merchant steel (Stabeisenverband), heavy sheets (Grobblechverband), and hoops (Bandeisenverband). There are other associations for tubes and wire rods (Walzdrath). No organisation of the kind exists in Germany for buying purposes.

In France, the "comptoirs" existing before the war, which were reorganised after the conclusion of peace, have to-day disappeared.

In the international field, the association of the rail manufacturers (International Rail-Makers Association), which before the war included the American rail-makers, has been reconstituted since the war by the British, German, Belgian, Luxemburg and French manufacturers under the name of the European Rail-Makers Association. Its headquarters are in London.

The text of the International Steel Agreement, to which Austria, Czechoslovakia and Hungary subsequently adhered, signed at Brussels on September 30th by the representatives of the French, German, Belgian and Luxemburg industries, will be found annexed. No official documentation is available on the series of Conventions by which the iron and steel industries of Central and Eastern Europe have divided certain markets among themselves.

ANNEXE I.

TABLEAUX SUR LA PRODUCTION DE MINERAIS DE FER, FONTE ET FERRO-ALLIAGES, ACIER (LINGOTS ET MOULAGE), FER ET ACIER FINIS, POUR LES ANNÉES 1909-1913 ET 1920-1926.

Sources : Statistiques officielles des Mines et Industries métallurgiques. Relevés spéciaux fournis par les Administrations officielles de statistique. Statistiques des Organisations centrales de Producteurs. Rapports des Chambres de Commerce.

Dans quelques cas de peu d'importance ces sources ont été complétées par des renseignements contenus dans certaines revues techniques telles que : Stahl und Eisen, Iron Age, Iron Trade Review, etc.

ANNEX I.

TABLES ON THE PRODUCTION OF IRON ORE, PIG IRON AND FERRO-ALLOYS, STEEL (INGOTS AND CASTINGS), FINISHED IRON AND STEEL PRODUCTS FOR THE YEARS 1909-1913 AND 1920-1926.

Sources : Official Statistics of Mines and Metallurgical Industries. Special Statements submitted by the official statistical administrations. Statistics of Producers' Central Organisations. Reports of Chambers of Commerce.

These sources have in a few cases of no great importance been supplemented by information contained in certain technical reviews such as : Stahl und Eisen, the Iron Age, the Iron Trade Review, etc.

Annexe I. Tableau 1.

MINERAIS DE FER.

PRODUCTION EN MILLIERS DE TONNES MÉTRIQUES.

(a) = Territoire d'avant-guerre.

(b) = Territoire d'après-guerre.

ΡΑΎS	1909	1910	1911	1912	1913	Moyenne Average 1909-1913
Amérique du Nord. Canada Etats-Unis Terre-Neuve	243 52,115 894	236 57,927 1,077	191 44,578 1,194	196 56,032 1,033	279 62,972 1,263	229 54,725 1,092
Amérique Centrale. Cuba	945	1,441	1,182	1,420	1,607	1,319
Amérique du Sud. Chili	• .	32	28	6	14	² 20
Europe. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Allemagne $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Autriche $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Belgique. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Espagne $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ France. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Grèce. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Hongrie. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Italie $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Luxembourg $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Norvège $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Pologne. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Roumanie. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Royaume S. H. S. $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Russie 4 $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$	19,712 2,490 1,586 200 8,786 11,890 26,333 531 1,965 377 505 5,794 41 356 447 15,041 5,120	$\begin{array}{c} 22,446\\ 2,628\\ 1,759\\ 124\\ 8,666\\ 14,606\\ 31,258\\ 585\\ 1,906\\ 366\\ 551\\ 6,263\\ 102\\ 401\\ 461\\ 15,470\\ 5,785\\ 5,5785\\ 5,550\\ 5,50$	$\begin{array}{c} 23,819\\ 2,766\\ 1,829\\ 151\\ 8,773\\ 16,639\\ 34,393\\ 527\\ 1,950\\ 374\\ 374\\ 6,060\\ 221\\ 408\\ 20\\ 464\\ 15,767\\ 6,867\\ 6,867\\ c,151\end{array}$	$\begin{array}{c} 27,199\\ 2,927\\ 1,881\\ 167\\ 9,133\\ 19,160\\ 39,243\\ 446\\ 1,991\\ 410\\ 582\\ 6,511\\ 408\\ 459\\ 29\\ 308\\ 464\\ 14,011\\ 7,071\\ c, coo$	$\begin{array}{c} 28,608\\ 7,309\\ 3,039\\ 2,031\\ 151\\ 10,789\\ 21,918\\ 43,054\\ 314\\ 2,059\\ 395\\ 603\\ 7,333\\ 545\\ 603\\ 7,333\\ 545\\ 449\\ 49\\ 325\\ 465\\ 229\\ 16,253\\ 9,537\\ 1\ 10,300\\ \end{array}$	$\begin{array}{c} 24,357\\ 6,418\\ 2,770\\ 1,817\\ 159\\ 9,229\\ 16,842\\ 31,456\\ 581\\ 1,874\\ 384\\ 523\\ 6,392\\ 263\\ 415\\ 3\\ 33\\ 460\\ 15,307\\ 6,876\\ 5,552\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$
Suède	3,885 ⁻ 2,026	5,550 1,994	6,151 2,064	6,699 2,178	7,476 1,800	5,952 2,012
Asie. Chine Indes Japon Colonies japonaises	85	55	372	589	440 377 172	296
Afrique. Algérie Congo Belge	891	1,065	1,074	1,190	1,349 20	1,114
Egypte Tunisie Union Sud Africaine	217	366	403	478	598	412
Océanie. Australie	118	160	124	116	176	⊷્ 139

Estimation.
Moyenne 1910-13.
Moyenne 1911-13.
Chiffres d'avant-guerre se rapportant à la Russie d'Europe seule ; chiffres d'après-guerre se rapportant à U.R.S.S. (y compris territoire d'Asie).

S. d. N. 200. 6/26 + 500 10/26 + 3.400 (F). 3.025 (A) 3/27. Imprimerles Réunies, S. A., Lausanne.

Annex I.

Table 1.

IRON ORE.

PRODUCTION IN METRIC TONS (000'S OMITTED).

(a) = Pre-war territory.

(b) = Post-wart erritory.

-

1920	1921	1922	1923	1924	1925	COUNTRIES
117 68,686 519	54 29,963 522	16 47,883 1,019	28 70,461 733	1 55,136	3 62,899	North America. Canada. United States. Newfoundland.
897	132	452	374			Caribbean. Cuba.
. 3	8	290	673			South America. Chile.
and the second sec		-				Europe.
رم 6,299	5,824	5,928	5,188	4,457	5,923	$ \begin{array}{c} (a) \\ (b) \end{array} \right\} \text{Germany.} $
435	711	1,112	1,211	714	1,030	$\left(\begin{array}{c} (a) \\ (b) \end{array}\right) \text{Austria.}$
- 5,480	59 3,226	63 3,240	117 3,945	145 4,813	166 1 4,400	Belgium. Spain.
13,921 46	14,201 55	21,106 49	23,349 100	28,992 102	35,741 95	(a) (b) France. Greece.
102 390 3,704 79 183 13	36 279 3,032 57 304 10	46 311 4,449 259 395 18	$ 138 \\ 341 \\ 4,080 \\ 386 \\ 454 \\ 9 $	102 238 5,333 522 292 9	71 513 6,787 425 212	(a) (b) Hungary. Italy. Luxemburg. Norway. (b) Poland. Portugal.
74 19 12,910	91 16 3,534	95 61 6,977	99 245 11,050	103 330 11,228	107 139 10,306	(a) (b) Roumania. (b) S. H. S. United Kingdom.
160 4,524 1,053	144 6,464 801	225 6,201 313	500 5,588 675	1,094 6,500 1,174	2,500 8,169	(a) (b) Russia 4. Sweden. (b) Czechoslovakia.
1,489 567 315 447	1,365 957 87 233	1,088 635 165	833 817 231	1,468	318	Asia. China. India. Japan. Japanese Colonies.
1,060 80 78 434 2	707 81 55 274 2	1,019751045001	1,448 106 132 838 1	1,775 107 150	1,787	Africa. Algeria. Belgian Congo. Egypt. Tunis. Union of South Africa
615	701	172	569	731	751	Oceania. Australia.

⁴ Estimate. ⁸ Average 1910-1913. ⁹ Average 1911-1913. ⁴ Pre-war figures refer to European Russia only, post-war figures refer to U. S. S. R. (including Asiatic Territory).

6

Annexe I. Tableau 2.

FONTE ET FERRO-ALLIAGES

PRODUCTION EN MILLIERS DE TONNES MÉTRIQUES.

(<i>a</i>)	=	Terr	ritoire	d 'aı	vant-g	uerre.
					-	

(b) = Territoire d'après-guerre.

PAYS	1909	1910	1911	1912	1913	Moyenne Average 1909-1913
Amérique. Amérique du Nord Canada Etats-Unis Amérique Centrale et du Sud ²	26,896 688 26,208 —	28,492 752 27,740	24,865 837 24,028 —	31,131 ⊧ 928 30,203 —	32,493 1,031 31,462 —	28,776 847 27,929 —
EuropeAllemagne $\begin{cases} (a) \\ (b) \\ a \end{cases}$ Autriche $\begin{cases} (a) \\ (b) \\ a \end{cases}$ BelgiqueEspagneEspagneFinlandeFrance $\begin{cases} (a) \\ (b) \\ a \end{cases}$ Hongrie ${}^{\epsilon} \begin{cases} (a) \\ (b) \\ a \end{cases}$ ItalieLuxembourgNorvègePologne (b) Royaume des Serbes, Croateset Slovènes (b) Russie $\begin{cases} (a) \\ (b) \end{pmatrix}$ Sarre (b) SuèdeTchécoslovaquie (b)	$\begin{array}{c} \textbf{33,390} \\ \textbf{11,365} \\ \textbf{1,465} \\ \textbf{494} \\ \textbf{1,616} \\ \textbf{429} \\ \textbf{5,12} \\ \textbf{3,574} \\ \textbf{5,885} \\ \textbf{160} \\ \textbf{160} \\ \textbf{208} \\ \textbf{1,553} \\ \textbf{-} \\ \textbf{1,553} \\ \textbf{-} \\ \textbf{9,685} \\ \textbf{2,875} \\ \textbf{-} \\ \textbf{1,132} \\ \textbf{448} \\ \textbf{922} \end{array}$	$\begin{array}{r} \textbf{36,898}\\ \textbf{13,097}\\ \hline \textbf{1,505}\\ \textbf{547}\\ \textbf{1,852}\\ \textbf{373}\\ \textbf{10}\\ \textbf{4,038}\\ \textbf{6,736}\\ \textbf{151}\\ \textbf{151}\\ \textbf{352}\\ \textbf{1,696}\\ \hline \textbf{-}\\ \textbf{10,172}\\ \textbf{3,044}\\ \hline \textbf{-}\\ \textbf{1,198}\\ \textbf{608}\\ \textbf{878} \end{array}$	$\begin{array}{r} \textbf{38,432}\\ \textbf{13,616}\\ \hline \textbf{1,596}\\ \textbf{575}\\ \textbf{2,046}\\ \textbf{409}\\ \textbf{9}\\ \textbf{4,470}\\ \textbf{7,174}\\ \textbf{156}\\ \textbf{156}\\ \textbf{303}\\ \textbf{1,918}\\ \hline \textbf{-}\\ \textbf{948}\\ \textbf{167}\\ \hline \textbf{9,678}\\ \textbf{3,593}\\ \hline \textbf{-}\\ \textbf{1,220}\\ \textbf{638}\\ \textbf{930} \end{array}$	$\begin{array}{r} \textbf{41,615}\\ \textbf{15,174}\\ \hline \textbf{1,760}\\ \textbf{601}\\ \textbf{2,301}\\ \textbf{403}\\ \textbf{10}\\ \textbf{4,939}\\ \textbf{7,976}\\ \textbf{169}\\ \textbf{380}\\ \textbf{2,678}\\ \hline \textbf{1,050}\\ \textbf{169}\\ \textbf{169}\\ \textbf{169}\\ \textbf{380}\\ \textbf{2,678}\\ \hline \textbf{1,050}\\ \textbf{169}\\ \textbf{169}\\ \textbf{169}\\ \textbf{380}\\ \textbf{2,678}\\ \textbf{1,050}\\ \textbf{169}\\ \textbf{169}\\ \textbf{169}\\ \textbf{380}\\ \textbf{2,678}\\ \textbf{1,050}\\ \textbf{169}\\ \textbf{169}\\ \textbf{169}\\ \textbf{169}\\ \textbf{169}\\ \textbf{380}\\ \textbf{2,678}\\ \textbf{1,050}\\ \textbf{169}\\ \textbf{169}$	$\begin{array}{r} \textbf{45,662}\\ \textbf{16,632}\\ \textbf{10,907}\\ \textbf{1,814}\\ \textbf{607}\\ \textbf{2,485}\\ \textbf{425}\\ \textbf{9}\\ \textbf{5,207}\\ \textbf{8,948}\\ \textbf{190}\\ \textbf{190}\\ \textbf{427}\\ \textbf{2,677}\\ \textbf{2,677}\\ \textbf{1,031}\\ \textbf{1} \ \textbf{69}\\ \textbf{8} \ \textbf{57}\\ \textbf{10,425}\\ \textbf{4,629}\\ \textbf{4,220}\\ \textbf{1,371}\\ \textbf{742}\\ \textbf{1,072} \end{array}$	$\begin{array}{r} \textbf{39,199} \\ \textbf{13,977} \\ \textbf{9,240} \\ \textbf{1,628} \\ \textbf{565} \\ \textbf{2,060} \\ \textbf{408} \\ \textbf{10} \\ \textbf{4,446} \\ \textbf{7,334} \\ \textbf{165} \\ \textbf{165} \\ \textbf{334} \\ \textbf{2,104} \\ \textbf{7,1,010} \\ \textbf{167} \\ \hline \textbf{9,770} \\ \textbf{3,668} \\ \hline \textbf{1,244} \\ \textbf{629} \\ \textbf{968} \\ \end{array}$
Asie Chine ¹¹ Indes Japon ¹²	39	36	49	146	607 160 207 240	¹⁰ 300 96
Afrique ¹³ Océanie Australie	2 7 27	· 41 41	37 37	34 34	47 47	37 37
Monde entier	60,352	65,467	63,383	72,926	78,809	68,312

¹ Estimation.
³ Production estimée du Mexique et du Brésil.
³ La Sarre donnée séparément.
⁴ Y compris Bosnie et Herzégovine.
⁵ 1908.

⁶ 1908.
⁶ Fonte seulement ; chiffres exacts pour ferro-alliages non disponibles.
⁷ Moyenne 1911-1913.
⁸ Bosnie et Herzégovine.
⁹ D'après une estimation de « Stahl und Eisen ».
¹⁰ Y compris estimations pour Japon et Chine, vu le manque de chiffres exacts.
¹¹ Y compris estimation de la production indigène.
¹² Y compris Corée et Kouang-Toung.
¹³ Production faible dans l'Union Sud-Africaine ; chiffres exacts manquent.
¹⁴ Y compris une estimation de la production de ferro-alliages.

Annex I. Table 2.

PIG-IRON AND FERRO-ALLOYS.

PRODUCTION IN METRIC TONS (000'S OMITTED).

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((a)	—	Pre-war	territory.
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(b) = Post-war territory.

62,876	37,975	55,404	69,988	68,337	1 76,936	1 79.180	World.
349 349	358 358	85 85	335 335	423 423	446 446	¹ 500 ¹ 500	Africa ¹³ . Oceania. Australia.
1,437 400 316 721	1,402 375 377 650	1,349 310 345 694	1,806 400 609 797	2,079 374 885 820	¹ 2,038 1375 813 1850	¹ 2,150 ¹ 400 ¹ 850 ¹ 900	Asia. China ¹¹ . India. Japan ¹³ .
6 8,164 115 891 485 737	$ \begin{array}{r} 12 \\ 2,657 \\ \hline 115 \\ 1,149 \\ 320 \\ 577 \\ \end{array} $	$16\\4,980\\\\187\\1,157\\275\\335$	24 7,560 530 1,021 302 817	15 7,424 	$35 \\ 6,337 \\ \\ 1,551 \\ 1,453 \\ 463 \\ 1,166$	⁹ 300 2,482 2,430 1,638 ¹ 480 ¹ 1,350	$egin{array}{c} (b) & \mathrm{S.} & \mathrm{H.} & \mathrm{S.} & \mathrm{United} & \mathrm{Kingdom.} & \mathrm{Min} & \mathrm{Kingdom.} & K$
88 693 6 411 19	$ \begin{array}{c} - & & & \\ & & 71 \\ & & 61 \\ & & 970 \\ & & 3 \\ & & 444 \\ & & 33 \\ \end{array} $	98 158 1,679 4 480 31	$\begin{array}{c}$	$\begin{array}{c} & & \\ & 116 \\ & 304 \\ 2,157 \\ & 65 \\ & 334 \\ & 46 \end{array}$	934822,3468831564	$ \begin{array}{r} 1 110 \\ 522 \\ 2,512 \\ 1 100 \\ 328 \\ 1 100 \\ \end{array} $	⁵ (a) Hungary. 6(b) Hungary. Italy. Luxemburg. Norway. (b) Poland. (b) Roumania.
	224 876 247 10 3,358	$ \begin{array}{r} $		$ \begin{array}{r} 7,812 \\ \hline 267 \\ 2,844 \\ 497 \\ 10 \\ \hline 7,693 \end{array} $	$ \begin{array}{r} 10,177 \\ 380 \\ 2,543 \\ 533 \\ 11 \\ \overline{} \\ 8,471 \\ \end{array} $	$ \begin{array}{r} 9,642 \\ 380 \\ 3,401 \\ 550 \\ 10 \\ 9,395 \\ \end{array} $	$ \begin{array}{c} \left\{\begin{array}{c} a \\ (b)\\ (b)\\ Belgium.\\ Spain.\\ Finland.\\ a \\ (a)\\ France.\\ \end{array} $
22,541 6,016	18,589 	25,875 9,190	25,872 	33,248 	36,508 10,177	35,730 9,642	Europe. $\binom{a}{\binom{a}{\binom{b}{3}}}$ Germany.
38,534 1,017 37,517 1 5	17,581 626 16,955 45	23,065 410 27,655 30	41,930 923 41,007 45	32,537 629 31,908 5 0	37,894 606 37,288 ¹ 50	40,750 750 40,000 50	America. North America. Canada. U. S. A. Caribbean and South America ² .
1920	1921	1922	1923	1924	1925	1926	COUNTRIES

¹ Estimated.
² Estimated production of Mexico and Brazil.
³ Saar shown separately.
⁴ Including Bosnia and Herzegovina.
⁵ 1908.
⁶ Diguinon only reliable figures for ferro-allogeneous set of the second set of the secon

⁵ 1908.
⁶ Pig-iron only; reliable figures for ferro-alloys not available.
⁷ Average 1911-1913.
⁸ Bosnia and Herzegovina.
⁹ According to estimate of "Stahl und Eisen".
¹⁰ Includes general estimates for Japan and China where no figures are available.
¹² Estimate for native production included.
¹³ Including Korea and Kwantung.
¹³ Small amount produced in Union of South Africa, but no exact figures available.
¹⁴ Including estimate of the production of ferro-alloys.

Annexe I. Tableau 3.

ACIER (INGOTS ET MOULAGE).

PRODUCTION EN MILLIERS DE TONNES MÉTRIQUES.

(a) = Territoire d'avant-guerre.

(b) = Territoire d'après-guerre.

PAYS	1909	1910	1911	1912	1913	Moyenne Average 1909-1913
]	
Amérique du Nord	25,028	27,266	24,859	32,618	32,862	28,527
Canada	690	754	804	867	1,060	835
Etats-Unis Amérique Centrale et du Sud ² .	24,338	26,512	24,055	31,751	31,802	27,692
Europe ⁸	29,410	33,097	35,830	40,305	43,361	36,401
Allemagne 4 $\begin{cases} (a) \\ (b) \\ 5 \\ \dots \\ \dots \end{cases}$	11,515	13,101	14,303	16,215	17,600	14,547
Autriche $\begin{cases} (a) & \dots \\ (b) & \dots \\ (b) & \dots \\ \end{pmatrix}$	1,370	1,519	1,615	1,905	12,236 161,853 565	1,652
Belgique Espagne	1,580 308	1,945 316	2,183 323	2,515 330	2,467 242	2,138 304
Finlande	3,039	3,413	3,847	4.429	4.687	3,883
France $\begin{cases} (a) & \cdots & \cdots \\ (b)^5 & \cdots & \cdots & \cdots \end{cases}$	· ·		· ·	6,366	6,973	<u> </u>
Hongrie $\begin{cases} (a) & \dots & \dots \\ (b) & \dots & \dots \\ \end{pmatrix}$	¹ 600	670	748	819	830	733
Italie ⁷	890	982	1,001	981	443 934	958
Luxembourg Norvège	535	598	716	1,087	1,336	854
Pologne (b)		<u> </u>	1,387	1,569	1,661	⁸ 1,536
Roumanie (b) Royaume SerbCrSlov. (b) .	¹ 128	¹ 132	¹ 133	¹ 134	¹ 140	¹ 133
Royaume-Uni	5,976	6.476	6,565	6,905	¹ 300 7,787	6,742
$ \begin{array}{c} \text{Russie} \begin{cases} (a) \\ (b) \\ \dots \\ $	3,155	3,444	3,902	4,447	4,869	3,964
$Sarre(b) \dots \dots \dots$		<u> </u>			4,212	—
Suède	434	624	618	664	2,080 749	618
Tchécoslovaquie (b)	868	932	1,029	1,188	1,229	1,049
Asie			_		346	10 300
Chine		<u> </u>			43	
IndesJapon ¹¹				— —	63 240	
Afrique 12						
Deéanie	_				14	
Australie					14	-
Monde entier	54,438	60,363	60,689	72,923	76,583	65,228

Estimation ou chiffre provisoire.
Production faible au Brésil et au Mexique, dont les chiffres exacts ne sont pas disponibles.
Les années 1909-12 comprennent des estimations de 5 à 10.000 tonnes pour Finlande.
Y compris jusqu'à 1913, une faible quantité de moulage produit en Luxembourg.
La Sarre donnée séparément.
Y compris 57.000 tonnes produites en Bosnie et Herzégovine.
Non compris jusqu'à 1913, une faible quantité de moulage.
Moyenne 1911-1913.
D'après une estimation de « Stahl und Eisen ».
Moyenne approximative pour 1912-1913.
Y compris Corée et Kouang-Toung.
Production faible dans l'Union Sud-Africaine, dont les chiffres exacts ne sont pas disponibles.
Y compris une estimation de la production de moulage.

Annex I. Table 3.

STEEL (INGOTS AND CASTINGS).

PRODUCTION IN METRIC TONS (000'S OMITTED).

(a) = Pre-war territory.

(b) = Post-war territory.

1920	1921	1922	1923	1924	1925	1926	COUNTRIES
43,934 1,127 42,807	20,779 679 20,100	36 667 494 36,173	46,560 897 45,663	39,199 660 38,539 —	46,886 766 46,120	¹³ 50,000 790 ¹³ 49,210	America. North America. Canada. U. S. A. Caribbean and South Ame- rica ² .
26,504	22,300	30,652	30,460	37,628	41,617	1 41,525	Europe ³ .
$ \begin{array}{r}$	$\begin{array}{r}\\ 9,265\\ 294\\ 764\\ 306\\ 14\\\\ 3,102\\ 166\\ 714\\ 754\\ 855\\ 45\\ 3,763\\\\ 184\\ 920\\ 236\\ 918\\ \end{array}$	$\begin{array}{c}\\ 11,314\\ \\ 481\\ 1,565\\ 314\\ 14\\ \\\\ 4,534\\ \\\\ 257\\ 1,046\\ 1,394\\ 996\\ 68\\ 5,974\\ \\\\ 361\\ 1,262\\ 351\\ 721\\ \end{array}$	$\begin{array}{c}\\ 6,305\\ -500\\ 2,297\\ 476\\ 26\\\\ 5,109\\ -283\\ 1,219\\ 1,201\\ 1,132\\ 82\\ 8,617\\\\ 726\\ 997\\ 310\\ 1,180\\ \end{array}$	$\begin{array}{r}$	$\begin{array}{c}$	$\begin{array}{c c} - & - \\ 12,340 \\ - & 550 \\ 3,374 \\ - & 650 \\ - & 30 \\ - & - \\ 8,386 \\ - & - \\ 8,386 \\ - & - \\ 1,712 \\ 2,245 \\ - & 500 \\ 1,712 \\ 2,245 \\ - & 570 \\ - & - \\ 1,712 \\ 2,245 \\ - & 570 \\ - & - \\ 1,712 \\ 2,245 \\ - & 570 \\ - & - \\ 1,712 \\ 2,245 \\ - & 570 \\ - & - \\ 1,712$	
973 1,021 52 158 811	918 1,066 48 186 832	721 1,181 120 152 909	1,180 1,377 200 218 959	1,639 ¹ 200 340 1,099	¹ 1,800 ¹ 150 ¹ 450 ¹ 1,200	1,000 1,000 1,900 1,500 1,500 1,250	Asia. China. India. Japan ¹¹ .
	•						Africa ¹² .
219 219	255 255	54 54	147 147	302 302	1 469 1 469	¹ 500 ¹ 500	Oceania. Australia.
71,678	44,400	68,554	78,544	78,768	1 90,772	1 93,925	World.

Estimated or provisional figure.
Small amount produced in Brazil and Mexico for which no figures are available.
The years 1909-12 include estimates of 5-10,000 tons for Finland.
Including up to 1913 insignificant amount of castings produced in Luxemburg.
Saar Basin given separately.
Including up to 1913 an insignificant amount of castings.
Average 1911-1913
According to estimate of "Stahl und Eisen ".
Estimated average for 1912-1913.
Includes Korea and Kwantung.
Small amount produced in Union of South Africa for which no figures are available.
Including estimate of the production of castings.

Annexe I. Tableau 4.

FONTE.

POURCENTAGE DE LA PRODUCTION ENTIÈRE MON-DIALE PRODUITE DANS CHAQUE PAYS ET GROUPE CONTINENTAL DANS LES ANNÉES INDIQUÉES.

PERCENTAGE WHICH THE PRODUCTION OF EACH COUNTRY AND CONTINENTAL GROUP CONSTITUTED OF TOTAL WORLD PRODUCTION IN THE YEARS SHOWN.

PIG IRON.

Annex 1.

Table 4.

PAYS	¹ Moyenne ¹ Average 1909-1913	•1913	1920	1921]	1922	1923	1924	1925	1926	
Amérique du Nord Canada Etats-Unis Amérique Centrale et du Sud	% 42.12 1.23 40.89	% 41.23 1.31 39.92	% 61.29 1.62 59.67 0.02	% 46.30 1.65 44.65 0.12	% 50.66 0.74 49.92 0.05	% 59.91 1.32 58.59 0.06	% 47.61 0.92 46.69 0.07	% 49.25 0.79 48.46 0.07	% 51.46 0.94 50.52 0.06	-
Europe	57.38 20.46 2.38 3.02 0.60 0.01 6.51 0.24 0.49 3.08 14.30 5.37 0.92	$\begin{array}{c} \textbf{57.94}\\ \textbf{13.84}\\ \textbf{0.77}\\ \textbf{3.15}\\ \textbf{0.54}\\ \textbf{0.01}\\ \textbf{11.35}\\ \textbf{0.24}\\ \textbf{0.55}\\ \textbf{3.40}\\ \textbf{1.31}\\ \textbf{0.09}\\ \textbf{0.07}\\ \textbf{13.23}\\ \textbf{5.35}\\ \textbf{1.74}\\ \textbf{0.94}\\ \textbf{1.36} \end{array}$	$\begin{array}{c} \textbf{35.85} \\ \textbf{9.57} \\ \textbf{0.16} \\ \textbf{1.78} \\ \textbf{0.40} \\ \textbf{0.02} \\ \textbf{5.46} \\ \textbf{0.14} \\ \textbf{1.10} \\ \textbf{0.01} \\ \textbf{0.65} \\ \textbf{0.03} \\ \textbf{12.99} \\ \textbf{0.18} \\ \textbf{1.42} \\ \textbf{0.77} \\ \textbf{1.17} \end{array}$	48.95 19.65 0.59 2.31 0.65 0.03 8.84 0.19 0.16 2.55 0.01 1.17 0.09 0.03 7.00 0.30 3.02 0.84 1.52	$\begin{array}{c} \textbf{46.71}\\ \textbf{16.59}\\ \textbf{0.58}\\ \textbf{2.91}\\ \textbf{0.38}\\ \textbf{0.02}\\ \textbf{9.25}\\ \textbf{0.18}\\ \textbf{0.28}\\ \textbf{3.03}\\ \textbf{0.01}\\ \textbf{0.87}\\ \textbf{0.06}\\ \textbf{0.03}\\ \textbf{8.99}\\ \textbf{0.34}\\ \textbf{2.09}\\ \textbf{0.50}\\ \textbf{0.50}\\ \textbf{0.60} \end{array}$	$\begin{array}{c} \textbf{36.97} \\ \textbf{7.05} \\ \textbf{0.49} \\ \textbf{3.07} \\ \textbf{0.57} \\ \textbf{0.01} \\ \textbf{7.76} \\ \textbf{0.18} \\ \textbf{0.34} \\ \textbf{2.01} \\ \textbf{0.04} \\ \textbf{0.74} \\ \textbf{0.06} \\ \textbf{0.03} \\ \textbf{10.80} \\ \textbf{0.76} \\ \textbf{1.46} \\ \textbf{0.43} \\ \textbf{1.17} \end{array}$	$\begin{array}{c} \textbf{48.65}\\ \textbf{11.43}\\ \textbf{0.39}\\ \textbf{4.16}\\ \textbf{0.73}\\ \textbf{0.01}\\ \textbf{11.26}\\ \textbf{0.17}\\ \textbf{0.44}\\ \textbf{3.16}\\ \textbf{0.10}\\ \textbf{0.49}\\ \textbf{0.07}\\ \textbf{0.02}\\ \textbf{10.86}\\ \textbf{1.11}\\ \textbf{2.03}\\ \textbf{0.78}\\ \textbf{1.44} \end{array}$	$\begin{array}{r} \textbf{47.45}\\ \textbf{13.23}\\ \textbf{0.49}\\ \textbf{3.30}\\ \textbf{0.69}\\ \textbf{0.01}\\ \textbf{11.01}\\ \textbf{0.12}\\ \textbf{0.63}\\ \textbf{3.05}\\ \textbf{0.11}\\ \textbf{0.41}\\ \textbf{0.08}\\ \textbf{0.05}\\ \textbf{8.24}\\ \textbf{2.02}\\ \textbf{1.89}\\ \textbf{0.60}\\ \textbf{1.52} \end{array}$	$\begin{array}{c} \textbf{45.13}\\ \textbf{12.18}\\ \textbf{0.48}\\ \textbf{4.29}\\ \textbf{0.69}\\ \textbf{0.01}\\ \textbf{11.87}\\ \textbf{0.14}\\ \textbf{0.66}\\ \textbf{3.17}\\ \textbf{0.13}\\ \textbf{0.41}\\ \textbf{0.13}\\ \textbf{0.38}\\ \textbf{3.13}\\ \textbf{3.07}\\ \textbf{2.07}\\ \textbf{0.61}\\ \textbf{1.71} \end{array}$	
Asie Chine Indes Japon	0.44 0.14	0.77 0.20 0.26 0.31	2.29 0.64 0.50 1.15	3.69 0.99 0.99 1.71	2.43 0.56 0.62 1.25	2.58 0.57 0.87 1.14	3.05 .55 1.30 1.20	2.65 0.49 1.06 1.11	2.72 0.51 1.07 1.14	
Océanie Australie	0.06 0.06	0.06 0.06	0.55 0.55	0.94 0.94	0.15 0.15	0.48 0.48	0.62 0.6 2	0.58 0.58	0.63 0.63	
Monde Production mondiale (en mil- liers de tonnes métriques)!	100 68,312	100 78,809	100 62,876	100 37,975	100 55,404	100 69,988	100 68,337	100 76,936	100 79,180	

Base : Production dans territoire d'avant guerre.
 Base : Production dans territoire d'après guerre.

¹ Base : Production within pre-war frontiers. ² Base : Production within post-war frontiers.

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Annexe I. Tableau 5.

ACIER.

POURCENTAGE DE LA PRODUCTION ENTIÈRE MON-DIALE PRODUITE DANS CHAQUE PAYS ET GROUPE CONTINENTAL DANS LES ANNÉES INDIQUÉES.

STEEL.

Annex I. Table 5.

PERCENTAGE WHICH THE PRODUCTION OF EACH COUNTRY AND CONTINENTAL GROUP CONSTITUTED OF TOTAL WORLD PRODUCTION IN THE YEARS SHOWN.

¹ Moyenne ¹ Average 1909-1913	1913	1920	1921	1922	1923	1924	1925	1926	COUNTRIES
% 43.73	% -42.91	61.29	% 46.80	[%] 53.49	% 59.28	49.77	51.65	52.04	Novith America
1.28	1.38	1.57	1.53	0.72	1.14	0.84	0.84	$\begin{array}{c c} 53.24 \\ 0.84 \end{array}$	North America. Canada.
42.45	41.53	59.72	45.27	52.77	58.14	48.93	50.81	52.40	U. S. A.
			10.2		00.11	10.00		02.40	Caribbean and South America.
55.81	56.62	36.98	50.23	44.71	38.78	47.77	45.85	44.21	Europe.
22.30	15.96	10.87	20.87	16.50	8.03	12.49	13.43	13.14	Germany.
2.53	0.74	0.28	0.66	0.70	0.64	0.47	0.51	0.59	Austria.
3.28	3.22	1.75	1.72	2.29	2.92	3.65	2.81	3.59	Belgium.
0.47	0.32	0,35	0.69	0.46	0.61	0.69	0.69	0.69	Spain. Finland
~ 0.01	0.01	0.01	0.03	0.02	0.03	0.04	0.03	0.03	rinnang,
$5.95 \\ 1.12$	$\begin{array}{c} 9.11 \\ 0.58 \end{array}$	4.25 0.09	6.99 0.37	6.61 0.38	6.50 0.36	8.76 0.30	8.17 0.26	8.93 0.27	France.
1.12	1.22	1.09	1.61	1.52	1.45	1.72	1.97	1.82	Hungary. Italy.
1.31	1.74	1.08 0.82	1.70	2.04	1.55	2.39	2.30	2.39	Luxemburg.
1.01	1.71	0.02	1	2.01	1.00	2.00	1 2.00	2.00	Norway.
•	2.17	1.36	1.93	1.45	1.44	0.87	0.86	0.84	Poland.
	0.18	0.05	0.10	0.10	0.10	0.11	0.10	0.11	Roumania.
	0.39			ł			0.11	0.53	S. H. S.
10.33	10.16	12.85	8.47	8.71	10.97	10.58	8.28	3.86	United Kingdom.
6.08	5.50	0.23	0.42	0.53	0.93	1.45	2.37	3.32	Russia.
	2.72	0.94	2.07	1.84	1.27	1.84	1.74	1.85	Saar.
0.95	0.98	0.69	0.53	0.51	0.40	0.70	0.57	0.55	Sweden.
	1.6 0	1.36	2.07	1.05	1.50	1.71	1.65	1.70	Czechoslovakia.
0.46	0.45	1.42	2.40	1.72	1.75	2.08	1.98	2.02	Asia.
	0.06	0.07	0.11	0.17	0.25	0 25	0.16	0.16	China.
	0.08	0.22	0.42	0.22	0.28	0.43	0.50	0.53	India.
	0.31	1.13	1.87	1.33	1.22	1.40	1.32	1.33	Japan.
	0.02	0.31	0.57	0.08	0.19	0.38	0.52	0.53	Oceania.
	0.02	0.31	0.57	0.08	0.19	0.38	0.52	0.53	Australia.
100	100	100	100	100	100	100	100	100	World.
65,228	76,583	71,678	44,400	68,554	78,544	78,768	90,772	93,925	World Production (000's metri tons).

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¹ Base : Production dans territoire d'avant-guerre. ² Base : Production dans territoire d'après-guerre.

¹ Base: Production within pre-war frontiers. ² Base: Production within post-war frontiers.

Annexe I.

Tableau 6. FONTE.

INDICES DE PRODUCTION.

- (a) Base : Moyenne de la production en 1909-1913 dans territoire d'avant-guerre = 100.
- (b) Base: Production en 1913 dans territoire d'après-guerre = 100.

PIG-IRON.

INDICES OF PRODUCTION.

- ase: Average production 1909-1913 within pre-war frontiers = 100. (a) Base :
- Base: Production in 1913 within post-war frontiers = 100. (b)

PAYS	Milliers de tonnes métriques Metric tons (000's omitted)	1920	1921	1922	1923	1924	1925	1926	COUNTRIES
Amérique du Nord $\begin{cases} (a) \\ (b) \end{cases}$ Canada $\begin{cases} (a) \\ (b) \end{cases}$ Etats-Unis $\begin{cases} (a) \\ (b) \end{pmatrix}$	28,776 32,493 847 1,031 27,929 31,462	134 119 120 99 134 119	61 54 74 61 61 54	98 86 48 40 99 88	146 129 109 90 147 130	113 100 74 61 114 101	132 117 73 59 134 119	142 125 89 73 143 127	$ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \begin{pmatrix} a \\ b \end{pmatrix} \end{array} $ North America. $ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \begin{pmatrix} b \\ b \end{pmatrix} \end{array} $ Canada. $ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \begin{pmatrix} b \end{pmatrix} \end{array} $ U. S. A.
Europe $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Allemagne $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Autriche $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Belgique $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Espagne $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ France $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Hongrie1 $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Italie $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Luxembourg $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ Pologne(b)Royaume des Serbes, Croates et Slovènes(b)Royaume-Uni $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$	334 427 2,104 2,677 1,031 578 9,770	58 49 43 55 6 16 54 45 62 59 77 38 26 21 33 26 40 11 84	$\begin{array}{c} 47\\ 41\\ 53\\ 68\\ 14\\ 37\\ 43\\ 35\\ 61\\ 58\\ 76\\ 38\\ 43\\ 37\\ 18\\ 46\\ 36\\ 43\\ 21\\ 27\end{array}$	$\begin{array}{c} 66\\ 57\\ 66\\ 84\\ 20\\ 53\\ 78\\ 65\\ 51\\ 49\\ 115\\ 59\\ 52\\ 47\\ 37\\ 80\\ 63\\ 47\\ 28\\ 51\\ \end{array}$	$\begin{array}{c} 66\\ 57\\ 35\\ 45\\ 21\\ 56\\ 104\\ 86\\ 98\\ 94\\ 122\\ 61\\ 76\\ 66\\ 71\\ 55\\ 67\\ 53\\ 50\\ 42\\ 77\end{array}$	85 73 56 72 16 44 138 114 122 117 173 86 70 61 91 71 103 81 32 26 76	$\begin{array}{c c} 93\\ 80\\ 73\\ 93\\ 23\\ 63\\ 122\\ 102\\ 131\\ 125\\ 191\\ 95\\ 56\\ 49\\ 144\\ 113\\ 112\\ 88\\ 31\\ 61\\ 65\\ \end{array}$	$\begin{array}{c} 91\\ 78\\ 69\\ 88\\ 23\\ 63\\ 165\\ 137\\ 135\\ 129\\ 211\\ 105\\ 67\\ 58\\ 156\\ 122\\ 119\\ 94\\ 32\\ 526\\ 25\\ \end{array}$	 (a) { (b) { (c) { <
Russie $\begin{cases} (a) & \dots & (b) \\ (b) & \dots & (b) \\ \dots & \dots & \dots \\ \text{Suède } \begin{cases} (a) & \dots & \dots \\ (b) & \dots & \dots \\ (b) & \dots & \dots \\ \dots & \dots & \dots \\ \text{Tchécoslovaquie } (b) \end{cases}$	1,371 629 742 1,072	78 3 65 77 65 69 479	25 3 84 51 43 54 467	48 5 4 84 44 37 31 450	73 14 13 74 48 41 76 602	71 21 18 101 85 72 92 693	61 42 37 106 74 62 121	24 66 58 119 76 65 126	$ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \begin{pmatrix} b \\ b \end{pmatrix} \\ \end{bmatrix} \text{ United Kingdom.} \\ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \begin{pmatrix} b \\ c \end{pmatrix} \\ \end{bmatrix} \text{ Russia.} \\ \begin{array}{c} \begin{pmatrix} b \\ b \end{pmatrix} \\ \end{bmatrix} \text{ Sweden.} \\ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \end{pmatrix} \\ \begin{array}{c} \end{pmatrix} \\ \end{bmatrix} \text{ Sweden.} \\ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \end{pmatrix} \\ \end{array} $
Asie $\begin{cases} (a) \\ (b) \\ (b) \\ \dots \\ $	96 207 240	236 329 153 300 943	231 393 182 271 968	222 359 167 289 230	298 634 294 332 905	343 250 922 428 342 1,143	679 336 250 847 393 354 1,205	717 354 250 885 411 375 1.351	$ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \begin{pmatrix} b \end{pmatrix} \\ \end{pmatrix} Asia. $ $ \begin{array}{c} \begin{pmatrix} b \\ b \end{pmatrix} \\ \begin{pmatrix} a \\ b \end{pmatrix} \\ \end{pmatrix} India. $ $ \begin{array}{c} \begin{pmatrix} a \\ b \end{pmatrix} \\ \end{pmatrix} Japan. $ $ \begin{array}{c} \begin{pmatrix} a \\ \end{pmatrix} \\ \end{pmatrix} = a = b = b = b = b = b = b = b = b = b$
(b)		743 92 80	762 56 48	181 81 70	713 102 89	900 100 87	949 113 98	1,351 1,064 116 100	 (a) (b) Oceania ³. (a) (b) World.

Fonte seulement.
Estimation sur la base de chiffres disponibles.
Les chiffres de la production de Chine sont trop approximatifs pour justifier le calcul d'un index exact.
Australie.

¹ Pig-iron only.

 Estimate on basis of available figures.
 Production figures for China too approximate to justify exact index calculations. • Australia.

Annex 1⁻⁻

Annexe I. Tableau 7.

ACIER.

INDICES DE PRODUCTION.

- (a) Base : moyenne de la production en 1909-1913 dans territoire d'avant-guerre = 100.
- production en 1913 dans territoire d'après-guerre = 100. (b) Base :

STEEL	
STEEL.	

Annex I.

INDICES OF PRODUCTION.

- Average production 1909-1913 within pre-war frontiers = 100. Base : (a)
- Production in 1913 within post-war Base : (b) frontiers = 100.

PAYS	Millie rs de tonnes métriques Ketric tons (coo's omitted)	1920	1921	1922	1923	1924	1925	1926	COUNTRIES
Amérique du Nord $\begin{cases} (a) \\ (b) \end{cases}$ Canada $\begin{cases} (a) \\ (b) \end{pmatrix}$ Etats-Unis $\begin{cases} (a) \\ (b) \end{pmatrix}$ Etats-Unis $\begin{cases} (a) \\ (b) \end{pmatrix}$ Europe $\begin{cases} (a) \\ (b) \end{pmatrix}$ Allemagne $\begin{cases} (a) \\ (b) \end{pmatrix}$ Allemagne $\begin{cases} (a) \\ (b) \end{pmatrix}$ Autriche $\begin{cases} (a) \\ (b) \end{pmatrix}$ Belgique $\begin{cases} (a) \\ (b) \end{pmatrix}$ Espagne $\begin{cases} (a) \\ (b) \end{pmatrix}$ France $\begin{cases} (a) \\ (b) \end{pmatrix}$ Hongrie $\begin{cases} (a) \\ (b) \end{pmatrix}$ Italie $\begin{cases} (a) \\ (b) \end{pmatrix}$ Luxembourg $\begin{cases} (a) \\ (b) \end{pmatrix}$ Pologne $(b) \end{pmatrix}$ Royaume-Uni $\begin{cases} (a) \\ (b) \end{pmatrix}$ Sarre $(b) \dots$ Suède $\begin{cases} (a) \\ (b) \end{pmatrix}$ Tchécoslovaquie (b)	835 1,060 27,692 31,802 36,401 4 3,361 14,547 12,236 1,652 565 2,138 2,467 304 242 3,883 6 973	$\begin{array}{c} \textbf{154}\\ \textbf{134}\\ \textbf{135}\\ \textbf{106}\\ \textbf{155}\\ \textbf{135}\\ \textbf{73}\\ \textbf{61}\\ \textbf{54}\\ \textbf{64}\\ \textbf{12}\\ \textbf{59}\\ \textbf{51}\\ \textbf{82}\\ \textbf{103}\\ \textbf{79}\\ \textbf{48}\\ \textbf{14}\\ \textbf{813}\\ \textbf{69}\\ \textbf{44}\\ \textbf{59}\\ \textbf{137}\\ \textbf{118}\\ \textbf{4}\\ \textbf{42}\\ \textbf{81}\\ \textbf{66}\\ \textbf{79} \end{array}$	$\begin{array}{c} \textbf{73} \\ \textbf{63} \\ \textbf{81} \\ \textbf{64} \\ \textbf{73} \\ \textbf{63} \\ \textbf{61} \\ \textbf{51} \\ \textbf{64} \\ \textbf{52} \\ \textbf{36} \\ \textbf{31} \\ \textbf{106} \\ \textbf{844} \\ \textbf{23} \\ \textbf{75} \\ \textbf{76} \\ \textbf{866} \\ \textbf{51} \\ \textbf{44} \\ \textbf{32} \\ \textbf{75} \\ \textbf{44} \\ \textbf{32} \\ \textbf{75} \\ \textbf{75} \\ \textbf{76} \\ \textbf{866} \\ \textbf{51} \\ \textbf{64} \\ \textbf{52} \\ \textbf{56} \\ \textbf{51} \\ \textbf{56} \\ \textbf{856} \\ \textbf{51} \\ \textbf{56} \\ \textbf{57} \\ \textbf{56} \\ \textbf{57} \\ \textbf$	$\begin{array}{c} & & & & \\ 129 \\ 112 \\ & & 59 \\ 47 \\ 131 \\ 114 \\ & & & \\ 84 \\ & & & \\ 71 \\ & & & \\ 78 \\ 92 \\ 29 \\ 85 \\ 73 \\ 63 \\ 103 \\ 130 \\ 117 \\ 65 \\ 35 \\ 58 \\ 109 \\ 112 \\ 163 \\ 104 \\ 60 \\ 89 \\ 77 \\ 9 \\ 9 \\ 61 \\ 57 \\ 47 \\ 58 \end{array}$	$\begin{array}{c} \textbf{163}\\ \textbf{142}\\ \textbf{107}\\ \textbf{85}\\ \textbf{165}\\ \textbf{144}\\ \textbf{84}\\ \textbf{70}\\ \textbf{43}\\ \textbf{51}\\ \textbf{30}\\ \textbf{88}\\ \textbf{107}\\ \textbf{93}\\ \textbf{157}\\ \textbf{197}\\ \textbf{132}\\ \textbf{73}\\ \textbf{39}\\ \textbf{64}\\ \textbf{127}\\ \textbf{131}\\ \textbf{141}\\ \textbf{90}\\ \textbf{68}\\ \textbf{128}\\ \textbf{111}\\ \textbf{18}\\ \textbf{17}\\ \textbf{48}\\ \textbf{50}\\ \textbf{41}\\ \textbf{96} \end{array}$	$\begin{array}{c} \textbf{137}\\ \textbf{119}\\ \textbf{79}\\ \textbf{62}\\ \textbf{139}\\ \textbf{121}\\\\ \textbf{103}\\ \textbf{87}\\ \textbf{68}\\ \textbf{80}\\ \textbf{22}\\ \textbf{65}\\ \textbf{134}\\ \textbf{117}\\ \textbf{179}\\ \textbf{225}\\ \textbf{178}\\ \textbf{99}\\ \textbf{33}\\ \textbf{54}\\ \textbf{142}\\ \textbf{145}\\ \textbf{221}\\ \textbf{141}\\ \textbf{124}\\ \textbf{107}\\ \textbf{29}\\ \textbf{27}\\ \textbf{70}\\ \textbf{89}\\ \textbf{73}\\ \textbf{110} \end{array}$	$\begin{array}{c} 164\\ 143\\ 92\\ 72\\ 167\\ 145\\ 1145\\ 114\\ 96\\ 84\\ 100\\ 28\\ 82\\ 119\\ 103\\ 206\\ 259\\ 191\\ 106\\ 32\\ 52\\ 186\\ 191\\ 244\\ 156\\ 47\\ 111\\ 97\\ 54\\ 47\\ 111\\ 97\\ 54\\ 69\\ 122\\ \end{array}$	$\begin{array}{c} 175\\ 152\\ 95\\ 75\\ 178\\ 155\\ 114\\ 96\\ 85\\ 101\\ 93\\ 97\\ 158\\ 137\\ 214\\ 269\\ 216\\ 120\\ 34\\ 56\\ 179\\ 183\\ 268\\ 168\\ 48\\ 54\\ 46\\ 79\\ 74\\ 83\\ 84\\ 69\\ 130\\ \end{array}$	(a) North America. (b) Canada. (a) Canada. (a) U. S. A. (b) U. S. A. (a) Germany. (a) Germany. (a) Belgium. (a) Belgium. (a) France. (b) France. (a) Hungary. (b) Italy. (a) Luxemburg. (b) Poland. (b) Saar. (b) Sweden. (b) Sweden. (b) Czechoslovakia.
Asie (b) Chine ¹ (b) Indes (b) Japon (b)	346 43 63 240	295 251 338	308 295 347	341 241 379	398 346 400	474 450 540 458	520 350 714 500	549 350 794 5 21	 (b) Asia. (b) China ¹. (b) India. (b) Japan.
Océanie ² (b)	14	1,564	1,821	386	1,050	2,157	3,350	3,571	(b) Oceania ² .
Monde $\begin{cases} (a) \dots \\ (b) \dots \end{pmatrix}$	65,228 76,583	110 94	68 58	105 90	120 103	121 103	139 119	144 123	$\begin{pmatrix} (a) \\ (b) \end{pmatrix}$ World.

¹ Les chiffres de la production de Chine sont trop approxima-tifs pour justifier le calcul d'un index exact. ⁴ Australie.

¹ Production figures for China too approximate to justify exact index calculations.

• Australia.

Table 7.

Annexe I. Tableau 8.

ALLEMAGNE.

(Y compris le Luxembourg de 1909 à 1913.)

PRODUCTION D'ACIER MI-FINI ET FINI.

(En milliers de tonnes métriques.)

	1909	1910	1911	1912	1913
Acier mi-fini pour la vente	2,085	2,263	2,613	3,287	2,800
Acier fini : Rails, traverses et éclisses	1,485	1,608	1,719	1,929	2,470
Longuerines Barres d'acier Feuillards et rubans	4,320	4,934	5,376 {	1,949 4,277 370	1,556 4,430 396
Fils laminés Tôles et plaques	909 1,502	966 1,652	999 1,946 65	$1,041 \\ 2,029 \\ 72$	1,158 2,299 83
Fer-blanc Tubes Essieux et roues	55 166 242	57 216 266	250 292	650 349	750
Pièces forgées} Autres aciers finis	413	458	530 {	210 137	208 177
Total acier fini	9,092	10,157	11,177	13,058	13,899
Production totale des laminoirs	11,177	12,420	13,790	16,345	1 16,699

¹ De ce total 11.005 milliers de tonnes ont été produites dans les frontières actuelles.

Tableau 9.

BELGIQUE.

PRODUCTION D'ACIER MI-FINI ET FINI, ET DE FER MALLÉABLE. (En milliers de tonnes métriques.)

	1909	1910	1911	1912	1913
Acier mi-fini. Loupes, billettes, etc		-			
Acier fini. Marchand Fers profilés, en formes spéciales Longuerines et V's. Rails Matériel de chemins de fer ¹ . Bandages et essieux. Tiges en fil de fer ² . Feuillards et rubans ¹ . Tiges ¹ . Plaques Autres produits.	629 139 152 214 34 283 119	673 172 168 348 32	711 184 197 338 35 342 139	879 196 214 339 40 400 170	856 214 175 342 34 34 380 162
Fotal acier fini Fer ³ Marchand	1,570	1,834	1,946	2,238	2,163

Non mentionné séparément avant 1922.
Non mentionné séparément avant 1920.
Avant 1914, le fer est compris dans l'acier.

Annex I. Table 8.

GERMANY. (Including Luxemburg in 1909-1913.)

PRODUCTION OF SEMI-FINISHED AND FINISHED STEEL.

(000's metric tons.)

	1920	1921	1922	1923	1924	1925	-
T	701	836	943	715	830	952	Semi-finished Steel for Sale.
							Finished Steel :
	- 685	1,113	1,208	657	1,053	1,499	Rails, sleepers and fish- plates.
· -	451	583	624	338	461	676	Girders.
1	2,620	2,466	2,940	1,656	2,321	2,839	Steel bars.
	258	246	322	174	282	389	Hoops and strips.
	573	630	875	438	909	1,073	Rolled wire.
	1,438	1,495	1,729	944	1,375	1,729	Sheets and plates.
	31	56	74	44	86	91	Tinplates.
}	382	392	515	209	476	637	Tubes.
	271	350	342	180	207	119	Axles and wheels.
	150	129	167	95	128	183	Forgings.
	77	60	82	38	46	59	Other finished steel.
	6,935	7,520	8,878	4,771	7,344	9,294	Total Finished Steel.
	7,636	8,356	9,821	5,486	8,174	10,246	- Total Rolling-mill Production.

¹ Of this total 11,005 thousand tons were produced within the present frontiers.

BELGIUM.

PRODUCTION OF SEMI-FINISHED AND FINISHED STEEL AND WROUGHT IRON. (000's metric tons.)

	1925	1924	1923	1922	1921	1920
Semi-finished Steel : Blooms, billets, etc.	529	597	506	308		
Finished Steel :						
Merchant.	507	624	546	307	248	349
Special sections.	156	252	152	148	101	117
Girders and V's.	137	201	197	152	65	84
Rails.	167	228	217	180	128	129
Railway material ¹ .	44	47 /	40	37	120	145
Tyres and axles.	$\overline{27}$	39	34	23	18	19
Wire rods ² .	189	138	123	94	114	131
Hoops and strips ¹ .	15	27	$\overline{24}$	10		101
Rods ¹ .	48	73	24 71	65		
Plates.	490	458	353	274	160	249
Other products.	35	37	12	4	3	8
Total Finished Steel :	1,815	2,124	1,769	1,294	837	1,086
Iron ³ .						-
Merchant.	83	175	188	155	100	145
Other finished produc	18	24	22^{100}	$\begin{array}{c} 155\\19\end{array}$	120	145
	10	24		19	39	17
Total Finished Iron and S	1,916	2,323	1,979	1,468	996	1,248

Not shown separately until 1922.
 Not shown separately until 1920.
 Before 1914 iron is included with steel.

Table 9.

Annexe I. Tableau 10.

ÉTATS-UNIS¹.

PRODUCTION DE FER LAMINÉ ET D'ACIER FINIS. (En milliers de tonnes métriques.)

	1909	1910	1911	1912	1913		
Acier : Rails . Plaques et tôles . Plaques à clous et à crampons . Tiges à fil de fer . Pièces de construction . Barres marchandes . Barres pour béton armé . Lames d'acier et acier à tuyaux . Feuillards . Rubans et liens à balles de coton . Barres à attacher, éclisses, etc Tôle laminée corroyée .	3,072 4,302 65 2,373 2,312 3,316 162 2,066	3,694 5,034 46 2,278 2,303 3,847 240 1,857 266 432	2,868 4,560 2,489 1,943 3,096 263 2,012	3,380 5,969 46 2,696 2,892 3,756 279 2,486	3,559 5,843 38 2,504 3,053 4,021 325 2,542 285 508 697		
Traverses de chemins de fer Pièces forgées, laminées ; loupes, etc Tous autres produits laminés, finis Total acier	2,291	467 1,503	2,091	3,548	546 1,267		
Fer : Plaques et tôles Barres marchandes Lames de fer ; fer à tuyaux Tous autres produits laminés, finis	Compris dans l'acier ci-dessus. Included with Steel above.						
Total acier et fer	19,959	21,967	19,371	25,052	25,188		

Les chiffres non donnés séparément sont compris dans « autres produits laminés finis ».

Tableau 11. FRANCE.

PRODUCTION D'ACIER FINI.

(En milliers de tonnes métriques.)

PRODUCTION OF FINISHED STEEL.

FRANCE.

Table 11.

(000's metric tons.)

	1912 ¹	·1913	1920	1921	1922	1923	1924	1925	
Acier fini :				[Finished Steel :
Bandages	55	70	37	48	34	42	60	61	Tyres.
Rails	517	461	174 {	293	400	370	537	497	Rails.
Traverses et éclisses	517	401	114	37	65	57	108	127	Sleepers and fishplates.
Longuerines et raccords	491	586	261	268	442	506	693	827	Girders and joints.
Plaques et tôle)	585	600	361 {	366	444	559	692	674	Plates and sheets.
Plaques étamées (fer-blanc)			901 J	16	31	37	52	68	Tin plates.
Barres marchandes	1,126	968	780	759	1,123	1,255	1,643	1,702	Merchant bars.
Ressorts	102	121	56 {	10	9	9	12	11	Springs.
Pièces forgées	104	121		37	37	42	56	41	Forgings.
Feuillards et rubans	—		20	18	30	48	71	73	Hoops and strips.
Tiges à fil de fer)	229	217	152 {	118	253	331	385	407	Wire rods.
Fil de fer			l (88	91	87	98	100	Wire.
Moulages en acier	95	102	75	78	103	136	168	155	Steel mouldings.
Tubes et tuyaux	51	62	31	30	60	70	97	108	Tubes and pipes.
Autres produits		<u> </u>	11	17	24	36	38	52	Other products.
Total	3,251	3,187	1,958	2,189	3,147	3,587	4,709	4,903	Total.

¹ Chiffres se réfèrent au territoire d'avant-guerre, à cause des changements dans la classification. La production totale des laminoirs dans le territoire d'après-guerre en 1909-13 était la suivante (en milliers de tonnes métriques) : 2.799, 3.185, 3.680, 4.395, 4.681. Les détails concernant la décomposition ne sont pas disponibles pour les années 1909-12, à cause d'un manque de spécification dans les chiffres pour la Lorraine. Le chiffre de 1913 était composé comme suit : (en milliers) Rails, traverses et éclisses 781, longuerines et rapports 886, barres marchandes 1.604 plaques et tôles larges 669, fil pour machines 275, ferblanc 39 et autres produits 427. Ces chiffres ne sont pas strictement comparables avec ceux d'après-guerre. ¹ Figures refer to pre-war territory. Total rolling mill prot duction, in post-war territory in 1909-13, was as follows (000's metric tons): 2,799; 3,185; 3,680; 4,395; 4,681. Details as to composition are not available for the years 1909-12 on account of the lack of specification of the figures for Lorraine. The 1913 figure was composed as follows (000's) Rails, sleepers, and fishplates 781, girders ans joints 886, merchant bars 1,604, sheets and broad plates 669, machine wire 275, tinplates 39 and other product 427. These figures are not strictly comparable with the post-war figures.

UNITED STATES 1.

Annex I. Table 10.

PRODUCTION OF FINISHED, ROLLED IRON AND STEEL. (000's metric tons.)

ļ	1920	1921	1922	1923	1924	1925	
	$\begin{array}{c} 2,646\\ 9,487\\ 21\\ 3,187\\ 3,360\\ 6,228\\ 5,82\\ 3,271\\ 337\\ 395\\ 5,85\\ 21\\ 26\\ 454\\ 2,262\\ \end{array}$	2,214 4,308 15 1,589 1,293 1,389 230 1,844 170 113 384 18 10 110 769 14,456 21 201 117	$\begin{array}{c} 2,207\\ 8,055\\ 22\\ 2,696\\ 2,760\\ 3,720\\ 584\\ 2,682\\ 226\\ 272\\ 555\\ 13\\ 15\\ 331\\ 1,817\\ \hline 25,955\\ 41\\ 323\\ 223\\ \end{array}$	2,951 9,644 23 3,124 3,458 5,230 691 3,573 224 352 720 37 20 453 2,336 32,336 32,336 6 441 220	$\begin{array}{r} 2,472\\ 8,184\\ 22\\ 2,562\\ 3,336\\ 4,086\\ 666\\ 3,052\\ 182\\ 298\\ 588\\ 51\\ 15\\ 352\\ 1,956\\ \hline 27,822\\ \hline 34\\ 263\\ 169\\ \hline \end{array}$	2,830 9,922 22 2,890 3,661 5,455 832 3,100 208 361 779 58 14 350 2,700 33,182 42 295 182	Steel : Rails. Plates and sheets. Nail and spike plates. Wire rods. Structural shapes. Merchant bars. Bars for reinforced concrete. Skelp, flue and pipe steel. Hoops. Bands and cotton ties. Splice bars, tie-plate bars, etc. Rolled sheet piling. Railroad ties. Rolled forging blooms, etc. All other finished rolled products. Total Steel Products. Iron : Plates and sheets. Merchant bars. Skelp, flue and pipe iron. Skelp, flue and pipe iron.
-	32,866	<u> </u>	<u>332</u> 26,874	<u>332</u> 33,835	246 28,534	<u>220</u> 33,921	All other finished rolled products. Total Steel and Iron Products.

¹ Figures not shown separately are included among "Other finished, rolled products ".

Tableau 12. LUXEMBOURG ¹.

PRODUCTION EN ACIER FINI ET MI-FINI.

(En milliers de tonnes métriques.)

· · · · · · · · · · · · · · · · · · ·	1914	1920	1921	1922	1923	1924	1925	
Acier mi-fini	385	168	231	485	297	616	615	Semi-finished Steel.
Acier fini : Matériel pour voie ferrée Raccords et grandes formes Barres et petites formes Tiges à fil de fer Feuillards Autres produits	81 208 215 51 6	$ \begin{array}{c} 26 \\ 104 \\ 142 \\ 36 \\ \overline{18} \\ 50 \end{array} $	99 102 112 52 12 7 85	79 197 332 68 33 143	59 177 339 83 41 125	116 236 470 96 51 205	134 291 526 106 53 240	Finished Steel : Permanent railway ma- terial. Joints and large shapes. Bars and small shapes. Wire rods. Hoops. Sheets. Other products
Total acier fini		376	469	852	824	1,174	1,350	Total Finished Steel.

¹ Les chiffres d'avant-guerre de la production par articles pour le Luxembourg ne sont pas séparés de ceux de l'Allemagne. La production totale de (a) semi-fini et (b) acier fini en 1909-13, était cependant la suivante (en milliers de tonnes métriques) : 1909, (a) 218 et (b) 315 ; 1910, (a) 213 et (b) 376 ; 1911, (a) 278 et (b) 430 ; 1912, (a) 381 et (b) 546 ; 1913 (a) 420 et (b) 670. ¹ The pre-war Luxemburg production figures by articles arc not separated from those of Germany. The total production of (a) semi-finished and (b) finished steel in 1909-13 however was as follows (000's metric tons): 1909 (a) 218 and (b) 315; 1910, (a) 213 and (b) 376; 1911, (a) 278 and (b) 430; 1912, (a) 381 and (b) 546; 1913, (a) 420 and (b) 670.

LUXEMBURG 1. Table 12.

PRODUCTION OF SEMI-FINISHED AND FINISHED STEEL. (000's metric tons.)

Annexe I. Tableau 13.

POLOGNE.

POLAND.

Annex I. Table 13.

PRODUCTION EN ACIER MI-FINI ET FINI (En milliers de tonnes métriques) PRODUCTION OF SEMI-FINISHED AND FINISHED STEEL (0)0's metric tons)

	1913	1922	1923	1924	1925	
Acier mi-fini pour la vente	151	127	137	98	82	Semi-finished Steef for Sale.
Acier fini : Rails, voie normale Rails, voie étroite Traverses, plaques, etc. Poutrelles Acier marchand et acier profilé Ruban, laminé à chaud. Fil laminé Tôles Acier spécial pour ressorts, instruments, etc. Autres qualités de fer et d'acier	$70 \\ 19 \\ 139 \\ 115 \\ 478 \\ 21 \\ 64 \\ 278 \\ 8 \\ 7$	25 16 22 75 336 13 36 201 19 5	43 15 29 57 388 18 51 159 7 10	25 15 30 38 194 10 19 118 14 8	91 14 35 44 188 15 31 145 21 2	Finished Steel: Rails, ordinary gauge. Rails, narrow gauge. Sleepers, plates, etc. Girders. Merchant steel and sections. Bands, hot-rolled. Rolled wire. Sheets. Special steel for springs, tools, etc. Other iron and steel.
Total acier fini	1199	748	777	471	586	Total Finished Steel.

Tableau 15.

SUÈDE 1.

PRODUCTION DE FER ET ACIER, MI-FINIS ET FINIS. (En milliers de tonnes métriques.)]

SWEDEN ¹.

Table 15.

PRODUCTION OF SEMI-FINISHED AND FINISHED IRON AND STEEL. (000's metric tons.)

	1913	1920	1921	1922	1923	1924	1925	
Fer et acier, en barres Billettes, loupes, etc	203 288	157 196	66 115	108 198	97 156	163 296	169 299	Bar iron and steel. Billets, blooms, etc.
Total	491	353	181	306	253	459	468	Total
Ebauches de tubes creusées ou non Autre fer mi-fini Angles, longuerines, bandages Feuillards, etc Tiges à fil et rubans Plaques et tôles Rails, essieux et éclisses Non spécifiés	51 45 33 92 79 55 5 6	$ \begin{array}{c} 27 \\ 31 \\ 20 \\ 70 \\ 53 \\ 46 \\ 5 \\ 6 \end{array} $	7 15 10 31 17 25 1 5	19 32 16 52 41 32 1 6	$ \begin{array}{c c} 15\\ 25\\ 12\\ 48\\ 40\\ 26\\ 2\\ 10\\ \end{array} $	$ \begin{array}{r} 32 \\ 39 \\ 21 \\ 76 \\ 58 \\ 46 \\ 2 \\ 12 \\ \end{array} $	26 39 16 78 51 53 2 12	Tube blanks, hollow and plain. Other semi-finished iron. Angles, girders, tyres. Hoops, etc. Wire rods and strips. Plates and sheets. Rails, axles and fishplates. Unenumerated.
Total	366	258	111	199	178	286	277	Total.

¹ Chiffres comparables non disponibles pour 1909-1912.

¹ Comparable figures not available for 1909-1912.

Annexe I.

Tableau 14. ROYAUME-UNI ¹.

UNITED KINGDOM ¹. Table 14.

PRODUCTION D'ARTICLES FINIS EN ACIER ET DE FER MALLÉABLE.

(En milliers de tonnes métriques.)

PRODUCTION OF FINISHED STEEL PRODUCTS AND WROUGHT IRON.

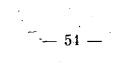
(000's metric tons.)

	1920	1921	1922	1923	1924	1925	
Acier :Pièces forgécsBrillant, étiré ou laminéà froidPlaquesTôlesFers-blancs, ternes etplaques noiresTôles galvaniséesTâles de constructionTiges à fil de ferFeuillards et rubansAcier à ressorts	$\begin{array}{c} 300\\ 90\\ 1,680\\ 365\\ 619\\ 467\\ 580\\ 56\\ 2,163\\ 265\\ 256\\ 97\\ \end{array}$	138 27 687 165 296 302 429 54 727 91 127 44	$128 \\ 46 \\ 586 \\ 394 \\ 684 \\ 607 \\ 543 \\ 81 \\ 1,145 \\ 215 \\ 241 \\ 50 \\ 125 \\ 241 \\ 50 \\ 128 \\ $	256 65 1,034 519 738 700 719 126 1,704 331 371 87	265 78 1,154 507 863 771 650 90 1,725 268 385 97	245 73 872 527 779 860 629 111 1,730 207 391 89	Steel : Forgings. Bright, cold-drawn and rolled. Plates. Sheets. Tin, terne and black plates. Galvanised sheets. Rails. Sleepers and fishplates. Structural shapes. Wire rods. Hoops and strips. Spring steel.
Total	6,938	3,087	4,720	6,650	6,853	6,513	Total.
Fer : Production de la forge : Barres puddlées Déchets, loupes et barres Total	598 393 991	221 186 407	223 233 456	337 319 656	314 296 610	219 201 420	Iron: Forge production: Puddled bars. Scrap, ball and bushel- ling bars. Total.
Produits finis des lami- noirs : Barres, tiges, ronds, carrés, plats, an- gles, «tees », formes, profilés et tiges à clous fendues. Fer à tubes laminé, feuillards et rubans Tous autres produits finis) 605 109 59	253 32 23	298 39 20	421 50 25	385 51 28	267 36 26	Finished mill production : Bars, rods, rounds, squares, flats, an- gles, tees, shapes, sections and slit nail rods. Rolled tube, hoops and strips. All other finished pro- ducts.
Total	773	308	357	496	464	329	Total.

¹ Chiffres comparables d'avant-guerre non disponibles.

¹ No pre-war series of comparable figures available.

Annex I.



Annexe I. Tableau 16. TCHÉCOSLOVAQUIE

PRODUCTION DE FER ET ACIER, MI-FINIS ET FINIS.

(En milliers de tonnes métriques.)

CZECHOSLOVAKIA

Annex I. Table 16.

PRODUCTION OF SEMI-FINISHED AND FINISH IRON AND STEEL.

(000's metric tons.)

	1909	1910	1911	1912	1913	1923	1924	1925	
Rails, traverses, éclisses Longuerines Barres et fils laminés Plaques et tôles Tôles galvanisées	82 106 241 73 16	55 112 282 73 19	63 127 322 81 19	68 137 414 90 20	74 97 306 74 19	74 43 508 148 20	89 62 472 183 22	58 73 534 252 22	Rails, sleepers, fishplates Girders Bars and rolled wire Plates and sheets Galvanized sheets
Total	518	541	612	729	570	793	828	939	Total

ANNEX II.

— 55 —

STATEMENTS CONCERNING THE NUMBER OF OCCUPIED WORKERS, UNEMPLOYMENT, HOURS OF WORK AND WAGES IN THE IRON AND STEEL INDUSTRY OF CERTAIN COUNTRIES.

Prepared from information collected by the International Labour Office.

The total number of workmen employed in the iron and steel industry in certain countries is given below with available specification according to main branches of production:

United S		
	[4047	29,356
Bla	stfurnaces	36,712
.	2.001	248,716
Ste	el-works and rolling-mills 1914 1923	388,201
	[1525	
	Total	278,072
	10tal 1923	424,913
7-2-3 8	, , , , , , , , , , , , , , , , , , ,	,
	Cingdom. — 1924:	
Bla	stfurnaces, including coke ovens at blast-	
	furnaces	28,533
Ste	el furnaces and rolling-mills, etc	117,052
	Total	145,585
		-
Bla	stfurnaces	30,190
	el furnaces and rolling-mills July 1926	24,490
010	etc. \dots	236,530
	July 1926	193,850
	Total ∫ Dec. 1924	266,720
	July 1926	218,340
Germany	. — 1924:	
Bla	stfurnaces	24,371
	el-works	33,287
Ro	lling-mills	90,830
	Total	148,488
France	- 1926:	
Bla	stiurnaces	22.300
	stfurnaces	22,300 87,000
	el-works and rolling-mills	22,300 87,000
		87,000
Ste	el-works and rolling-mills	•
Ste Belgium .	el-works and rolling-mills	87,000 109,300
Ste Belgium .	el-works and rolling-mills	87,000 109,300 5,289
Ste Belgium . Bla	el-works and rolling-mills	87,000 109,300
Ste Belgium . Bla	el-works and rolling-mills Total Total 1913 stfurnaces 1925 el-works 1913	87,000 109,300 5,289 5,930 *
Ste Belgium . Bla Ste	el-works and rolling-mills Total Total 1913 stfurnaces 1913 el-works 1913 1925 1913 1925 1913 1925 1913 1925 1913	87,000 109,300 5,289 5,930 * 10,703
Ste Belgium . Bla Ste	el-works and rolling-mills Total Total 1913 stfurnaces 1925 el-works 1913 1925 1913 1925 1913 1925 1913 1925 1913 1925 1913*	87,000 109,300 5,289 5,930 * 10,703 30,011
Ste Belgium . Bla Ste	el-works and rolling-mills Total Total 1913 stfurnaces 1913 el-works 1913 1925 1913 1925 1913 1925 1913 1925 1913	87,000 109,300 5,289 5,930 * 10,703
Ste <i>Belgium .</i> Bla Ste	el-works and rolling-mills Total Total 1913 stfurnaces 1925 el-works 1913 1925 1913 1925 1913 1925 1913 1925 1913 1925 1913*	87,000 109,300 5,289 5,930 * 10,703 30,011

.

Average number of wageearners engaged in the industry according to the Census of Manufactures, 1923. Later date not available.

Average number employed according to statistics of the National Federation of Iron & Steel Manufacturers. Wrought iron, tinplate and galvanised sheet workers not included.

Number of workers insured under the Unemployment Insurance Act. These statistics include the workers in certain branches of production excluded above.

Average number employed according to information communicated by the Fachgruppe der Eisen schaffenden Industrie beim Reichsverband der Deutschen Industrie.

Estimate of the Comité des Forges de France.

According to official statistics on the mining and metallurgical industries.

* The number of workers employed in the steel-works in 1913 is included in that shown for the rolling-mills.

. .

8.		
Blastfurnaces 1913 Steel-works 1925 Steel-morks 1913 1925 Rolling-mills 1913 1925 Foundries 1913 1925 1913 1925 1913 1925	5,233	
1925	6,222	According to the reports of
Steel-works 1913	*	the Luxemburg Chamber of
	2,638	Commerce.
D-11'- 11 (4049*	6,514	* The number of workers
Rolling-mills	5,014	
	5,978	employed in the steel-works
Foundries	432	in 1913 is included in that
1925	1,042	shown for the rolling-mills.
1 1913	19 179	
Total { 1913 1925	15 800	
[1923	10,000	
Sweden :		
Iron and steel works including blast- [1913	27,146	According to official mining
Iron and steel works including blast- furnaces and foundries, etc. 1913 1925	25,397	statistics.
	40,007	statistits.
Spain 1924:		
Iron production	13,125	According to information sub-
Steel production	8,094	mitted to the Preparatory
		Committee for the Economic
Total	21,219	Conference.

UNEMPLOYMENT.

٩

There are no comparative statistics as to the average number of unemployed workers in the iron and steel industry. In *Germany*, the official returns do not state to what branch of industry the unemployed belong and the Trade Union figures comprise all metal-workers in a single group. *The Reichsverband der Deutschen Industrie* merely observes that unemployment increased considerably in the iron and steel industries during the year 1925. In the *United Kingdom* the proportion of unemployed to the total number of workers was estimated at the end of 1924 at 18 per cent in the pig-iron industry and 29.6 per cent in the steel industry (as against 10.8 per cent for all industries). From the monthly statistics published since 1920 on the number of unemployed, we extract the following information showing the percentage of unemployed in the blastfurnaces and rolling-mills:

	<i>March</i> 1914	March 1924	March 1925	March 1926	December
(a) Blastfurnaces:					
Percentage of unemployed	. –	11.8	18.1	15.4	44.7
(b) Iron and steel rolling-mills:			.]
Percentage of unemployed	. 2.91	16.3	23.9	20.1	34.5
Number of working days of the establis ments in question	. 564,214 1	423,734	360,144	404,400	274,826
Number of workers represented by the establishments		78,883	67,328	75,407	51,805

In the United States, the monthly index of the labour employed in the iron and steel industries gives the following average figures for 1924 and 1925 and for the last few months of 1926:

1 Trade Union returns.

Luxemburg:

Index of Labour employed in the Iron and Steel Industry.

Date		•							•						((m	onth	1923 ly average) = 100
1924 (average)													•	•				93.5
1925 »																		95.9
September 1926		•							•	•		•.	•	•	•	•	•	98.2
October 1926						•	•	•						•	•	•	•	98.1
November 1926	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	٠	•	•	97.0

The number of workers represented in the calculation for November 1926 was 285,173.

HOURS OF WORK.

In the absence of exact comparative statistics, it is impossible to draw up a table of the real working-day in the iron and steel industry. In a general way it may be said that a fundamental change has taken place since 1914 through the substitution of the three-shift for the two-shift system. It must be noted, however, on the one hand that the eight-hour day was already adopted before the war in certain regions (more especially of the United Kingdom) and that, on the other hand, it is not yet generally applied, even with the modifications necessary where the furnaces are maintained continuously in full blast. In the United Kingdom, the average duration of work in summer was, in 1924, according to the results of an enquiry by the Ministry of Labour, 50 hours per week in the blastfurnaces and 44 hours in the steel-works and rolling-mills

In the United States, prior to 1924, the blastfurnace and open-hearth furnace departments were largely on a 12-hour day basis and bar-mills usually operated two turns per day of from 9 to 12 hours each. Available information for 1924, however, shows that the eight-hour day had been adopted at that time to a large extent by the plants in all three departments, only a few of them still retaining the 12-hour day. 'Since then there has been practically no change in the hours of work in either blastfurnaces, open-hearth furnaces or bar-mills.

In Germany, at the end of 1923, an order was made authorising the prolongation of the workingday beyond eight hours in all the iron and steel industries, but a new ordinance in 1925 made the application of the eight-hour day compulsory for work in blastfurnaces and cokeries. In *France* and in *Belgium* the application of the eight-hour day is provided for by law and by regulations.

OUTPUT PER HEAD.

It is generally considered impossible to calculate the average output per worker owing to the variety of the work done and the absence of any international definition of the categories of work and of workers under consideration, and also because of the varying standards of plant and equipment prevailing in the various works.

WAGES.

Figures for the *total wages paid* to the workers in the iron and steel industry are available only for a few countries as shown below:

United States:

		Total wage bill	Average per head	
Blastfurnaces	{ 1914 { 1923 { 1914 { 1923 { 1914	\$22,780,000 \$58,935,000 \$188,143,000 \$637,825,000	\$775 \$1,605 \$756 \$1,643	According to Census of Manufactures 1923. Later date not available.
Total	{ 1914 { 1923	\$210,923,000 \$696,760,000	\$760 \$1,640	

2	Total wage bill	Average per head	
Blastfurnaces, including coke ovens at blast furnaces	£4,629,910	£162.3 £157.7	According to statis- tics of the National Federation of Iron and Steel Manufac-
Total	£23,107,700	£159.5	turers.

Wrought iron, tinplate and galvanised sheet workers not included.

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Germany. - 1924:

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Blastfurnaces				verage r head . 1,957 . 1,909	According to official
Total .	R.M	1.284,656,000	R.M	[.1,917	returns.
Luxemburg. — 1925:		· .			
			A	verage	
	Tot	al wage bill	р	er head	
Blastfurnaces	Frs.	49,662,000	Frs.	7,982	
Steel-works	*	20,858,400	*	7,907	According to the re-
Rolling-mills	»	49,899,000	*	8,347	port of the Luxem-
Foundries	*	7,692,100	*	7,382	burg Chamber of
Total	Fre	198 111 500	Fre	8.070	Commerce.

Total . Frs. 128,111,500 Frs. 8,070

The figures for average annual earnings of the workers employed when converted to a common gold basis will show that discrepancies of up to almost one hundred per cent exist between different producing countries in Europe. In relation to the United States of America, the discrepancy measured in terms of money in certain cases amounts to several hundred per cent.

In regard to the figures for Germany, the Fachgruppe der Eisen schaffenden Industrie beim Reichsverband der Deutschen Industrie remarks that 1924 was an abnormal year and that the wages in the iron and steel industry have been considerably increased since then.

With respect to the *wage rates* for different categories of the iron and steel workers in the various countries there is little reliable information available.

In the blastfurnaces, the workers are generally paid by the hour (with bonuses for output); in the United Kingdom and the United States the wages vary on a sliding scale with the selling price of the product. When the workers are paid on a piece-work basis, the wages are rated by the ton, and in some cases time-wages (by the hour) are calculated in the form of a percentage added to a basic figure.

Similar differences are found in the steel-works and rolling-mills. Data regarding wage rates are mostly available only in the form of percentages of tonnage, and in the case of time-work, percentages added to base rates. As a rule, the earnings are known only in the shape of average earnings per worker.

In the United States a special enquiry into wages is held every two years. The average earnings in 1913 and 1922–26 of certain categories of blastfurnace workers are shown below:

Blastfurnaces :					\$ per hour	\$ per week
Stockers	1913 .				0.192	15.00
	1922 .				0.352	26.06
	1924 .				0.465	28.10
	1926 .				0.465	27.95
Operatives	1913 .				0.171	12.43
	1922 .				0.315	21.69
	1924 .				0.401	25.15
	1926 .		•	•	0.390	24.34

The average earnings per hour in 1924, compared with those in 1913, in certain departments of the steel-works were as follows:

Bessemer converters:	\$ per hour	Index (1913 = 100)	
All occupations	0.624	227	
Operatives	0.448	233	
Open-hearth furnaces:			
All occupations	0.635	269	
Operatives	0.434	232	
Puddling shops:		1	
All occupations	0.721	234	
Operatives	0.355	205	

۰,

In the United Kingdom, the returns of the Ministry of Labour show that the average wage calculated over four selected weeks of the year rose in 1924 to 63/1 for workers occupied in the production of pig iron and 61/5 for workers in the steel-works and rolling-mills. According to the *Bulletin* of the National Federation of Iron and Steel Manufacturers, the average wage of all iron and steel workers collectively amounted to 63/1 in March 1926.

No general statistics are available as to the average wages paid in Germany and France.

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ANNEXE III

1. TABLEAU INDIQUANT LES DROITS DE DOUANE A L'IMPORTATION.

2. TABLEAU SOMMAIRE INDIQUANT LES IMPORTATIONS, LES EXPOR-TATIONS ET LA BALANCE DU COMMERCE EN FONTE, ACIER BRUT, ARTICLES EN FONTE DE FER ET D'ACIER ET AUTRES ARTICLES DE FER ET D'ACIER.

ANNEX III

- (1) TABLE SHOWING CUSTOMS. IMPORT DUTIES.
- (2) SUMMARY TABLE SHOWING IMPORTS, EXPORTS AND BALANCE OF TRADE IN PIG IRON, RAW STEEL, CAST IRON AND STEEL, AND OTHER IRON AND STEEL PRODUCTS.

Tableau 1. DROIT DE DOUANE A L'IMPORTATION.

Taux par 100 kg., sauf indication contraire.

Table 1. **CUSTOMS IMPORT DUTIES.**

Rates per 100 kg., unless otherwise noted.

Pays	Etalon monétaire Unit of currency	and fo	contenant e 15 % de anèse n (forge undry) ing less 15 %	Fer rond d laminé 2 diam. 20 soit envi 60 kg. p Round 1 hot-rolled to 75 m about 20 per n	a chaud, à 75 mm. ron 20 à ar mètre par iron, diam. 20 1m. (<i>i.e.</i> to 60 kg.	(structur	nes (acier truction) aximum ou plus nd girders al steel), t diam.	Rails pesant 15 kg. ou plus par mètre Rails weighing 15 kg. or more per metre		Country	
		1913	1926	1913	1926	1913	1926	1913	1926		
Allemagne 1 Général Conventionnel	Gold mark	1,—	1,—	2,50 2,50	2,50	2,50	2,50 1,50 2	2,50	2,50	Germany 1 General. Conventional.	
Autriche: Général Conventionnel	Gold krone	1,90	0	6,50	2,50	6,50	2,50 8	6,—	4,50 3,	Austria : General. Conventional.	
Belgique: 1913 général 1926 maximum . 1926 minimum . 1926 convention.: Allemagne France	Franc papier	-,20	1,80 -,60 -,50	1,	9, <u>—</u> 3,— 4,50	1,—	9,— 3,— 4,50	1,	9,— 3,— 4,50	Belgium : 1913 general. 1926 maximum. 1926 minimum. 1926 conventional : Germany. France.	
Danemark: Général	Krone papier	0	0	0	0	0	0	0	0	Denmark : General.	
Espagne: Général Deuxième tarif Conventionnel: Royaume-Uni France	4 Peseta	1,40 1,40	10,— 3,80 3,80 3,80 3,80	8, 6,40	45,— 18,— 16,90 16,90	8, <u></u> 6,40	45, 5 18, 5 16,90 16,90		35,— 14,—	Spain: General. Second tariff. Conventional: United Kingdom France.	
France: Général Minimum Conventionnel: Autriche Estonie et Lettonie Finlande	Franc papier	2,25 1,50	12, 3, 12,	6,75 4,50	30,60 7,65 30,60	7,50 、5,—	34, <u>—</u> 8,50 34,—	9,— 6,—	36,— 9,— 36,—	France.: General. Minimum. Conventional: Austria. Estonia and Latvia.	
Pologne Tchécoslovaquie Canada Etats-Unis Espagne			12,— 12,— 4,50 3,—		28,31 30,60 11,48 7,65		21,25 21,25 12,75 8,50		36,— 36,— 13,50. 9,—	 Finland. Poland. Czechoslovakia. Canada. United States. Spain 	
Hongrie: Général Conventionnel.	Korona 6 (or) (gold)	1,90	2,50 0	6,50	7	6,50	7,—	6,—	7,	Hungary : General. Conventional.	
Italie: Général Conventionnel	Lira-or	1, 1,	3,12 2,81	6,50 6,—	11,20 10,15	6,50 6,—	11,20 10,15	6,— 6,—	11,20 9,80	Italy : General. Conventional.	
Pays-Bas: Général	Guilder	0	0	0	0 ·	0	0	0	0	Netherlands : General.	
Pologne : Général	Zloty-or		5,—		8,—		8,—	·	7,	Poland : General.	

¹ Conventionnel d'après-guerre : Autriche, Belgique, Italie et

¹ Conventionnel d'après-guerre : Autriche, Belgique, Italie et Suisse.
² S'applique seulement aux poutrelles « double T » aux rebords larges et parallèles dont la largeur dépasse 60 cm.
⁸ Exempt, quand elles dépassent 50 cm.
⁴ Or (ou équivalent).
⁶ Moins de 25 kg. par mètre.
⁶ Depuis le 15 mai 1925, couronnes-papier à 14.500 pour 1 couronne-or. (La parité exacte 14.473 couronnes-papier pour 1 couronne-or.)

Post-war conventional: Austria, Belgium, Italy, and 1 Post-war conventional: Austria, Beigium, Aust, and Switzerland.
2 Applies only to wide and parallel-flanged «double T · girders, having a transverse section of more than 60 cm.
8 Free, if exceeding 50 cm.
4 Gold (or equivalent).
5 Less than 25 kg. per metre.
6 Since May 15th, 1925, paper crowns at 14,500 per gold crown. (True parity is 14,473 paper = 1 gold crown.)

Tableau 1 (suite). DROITS DE DOUANE A L'ÍMPORTATION Taux par 100 kg., sauf indication contraire.

Table 1 (continued). **CUSTOMS IMPORT DUTIES** Rates per 100 kg., unless otherwise noted.

Pays	Etalon monétaire Unit of currency	moins de mang Pig-iron	contenant 15% de anèse (forge oundry) ing less 15%	laminé a diam. 20 soit envi 60 kg. p	à 75mm. ron 20 à bar mètre bar iron, diam. 20 nm. (i.e. to 60 kg.	longuerir de const diam. m 12 cm. Beams an structur	ou plus ad girders al steel) t diam.	ou pli mè Rails w	eighing or more	Country
		1913	1926	1913	1926	1913	1926	1913	1926	
Roumanie ¹ : Général Conventionnel	Leu-or -	0,50	0,05	1,—	6,70	3,—	8,25	5,— 3,—	8,25	Roumania ¹ : General. Conventional.
Royaume-Uni: Général	£	0	0	0	0	0	0	0	0	United Kingdom. General.
Royaume des Ser- bes, Croates et Slovènes: Maximum Minimum Conventionnel.	Dinar-or	0 0	4,— 3,—	2,50 0,50	6,50 5,—	4, 2,	14, 12, 10,	6,— 1,50	14, 12,	Kingdom of Serbs, Croats and Slo- venes: Maximum. Minimum. Conventional.
Suède: Général	r. Krona	0	0	1,50	1,50	0	0	0,	0	Sweden : General.
Suisse : Général Conventionnel	Franc	0,10	0,20	2,—	4,—	. 0,30	0,30	0,30	0,60	Switzerland : General. Conventional.
Tchécoslovaquie: Général Conventionnel.	Koruna ?	1,90	19, <u></u> 9,50	6,50	78,— 39,—	6,50	78,— 39,—	6,—	72,—	Czechoslovakia : General. Conventional.
Argentine : Général	Peso-oro	0,09	0,144	0,15	0,24	0,20	1,41	0	0,32	Argentine : General.
Australie: Général Royaume-Uni. Interméd Préf. britannique	£	0 0	2.— 1.10 1.—	0 0	4.— 3.5 2.4	0 0	4.10 3.15 2.8	15 % 10 %	4.5 8 3.10 ³ 2.5 ³	Australia: General. United Kingdom. Intermediate. Brit. pref.
Brésil: Général	Milreis	2,—	2,—	10,—	10,—	12,	12,	15,—	15,—	Brazil : General.
Canada: Général Interméd Préf. britannique	\$	2,50 2,25 1,50	2,50 2,50 1,50	7,— 6,— 4,25	7,— 6,— 4,25	7, 4 6, 4 4, 25 4	7,— 4 6,— 4 4,25 4	7, 6, 4,50	7, <u>—</u> 6, <u>—</u> 4,50	Canada: General. Intermediate. Brit. Pref.
Chine 56: Général	Haikwan tael	0,14	0,11	0,14	0,23	0,25	0,23	0,125	0,18	China ⁵⁶ : General.
Etats-Unis : Général	\$	0	0,75 7	. 5%	20 % 8	10 %	4,48 7	0	2,24 7	U.S.A. General.
Inde 7 : Général	Rupee	1%	9,—	i %	35,—	1%	30,—	0	14,—	India 7: General.
Japon 6: Général Conventionnel.	Yen	0,10 0,083	0,10 0,083	0,60	1,10	0,60	1,10	0,60	0,95	Japan 6: General. Conventional.

1 Coefficient d'après-guerre, pour paiements en lei-papier=30, dès le 5 juin 1926. (Parité exacte = 50, environ).
2 Avant-guerre, or; après-guerre, papier.
3 Si le poids dépasse 50 lbs. par yard, les taux sont: £3 15s., 4 Si le poids dépasse 120 lbs. par yard, les taux sont: £3, -, 2, 75 et 2, -- respectivement.
4 Si le poids dépasse 120 lbs. par yard, les taux sont: 3, -, 2, 75 et 2, -- respectivement (avant-guerre); après guerre, 3, -, 3, - et 2, -, 5 Augmentés de 10% dès le 1er novembre 1925 (Board of Trade Journal, 17 septembre 1925, page 323).
6 Par picul = 133 ½ lbs. anglais = 60 kg.
7 Par tonne de 1.016 kg.
8 Approximatif. Taux différents, parfois ad valorem, parfois spécifiques (changement d'après la valeur), de 17 à 35% ad valorem, environ.. environ..

1 Post-war coefficient for payments in paper-lei=30, from June 5th, 1926. (True parity=about 50).
9 Pre-war, gold; post-war, paper.
8 If over 50 lbs. per yard; the rates are: £3 15s., £3 and £1 15s. respectively.
4 If over 120 lbs. per lineal yard, the rates are: 3, --, 2,75 and 2.-- respectively (pre-war): post-war, 3.--, 3, --, and 2.--, 5 After November 1st, 1925, increased by 10 per cent (Board of Trade Journal, September 17th, 1925, page 323).
9 Per picul = 133 ½ lbs. English = 60 kg.
7 Per long ton.
8 Approximate. Various rates some ad valorem, some specific (varying by value ranging from about 17 to 35 per cent ad valorem. ad valorem.

Tableau 1 (suite).

DROITS DE DOUANES A L'IMPORTATION Taux par 100 kg. sauf indication contraire.

Table 1 (continued).

CUSTOMS IMPORT DUTIES Rates per 100 kg. unless otherwise noted.

Pays	Etalon monétaire Unit of currency	(en li High-sp	rapide ngots) eed-tool eel gots)	Acier pr i (en lir Machin (in in	ngots) ne steel	(bru de 5 m m d' Steel (rou	d'acier ites) lépaisseur plates igh) thick	en fer m bruts d'épaisses de 40 cm. Tubes al of malles rough 2 ^s less thar	2 ^{mm} ur, moins de diam. nd pipes ble iron, ^{am} thick.	Country
		1913	1926	1913	1926	1913	1926	4913	1926	
Allemagne 1: Général Conventionnel	Gold Mark	1,50 1,50	3, 2 18, 8 2,50 9 11,50 3	1,50 4 1,50 4	1,50 4	3,—	3,	6,— 5,—	6,— 5,—	Germany 1: General. Conventional.
Autriche: Général Conventionnel	Gold Kronen	3,80	0 ?	3,80	0?	9,50	1,—	15,50	11, 0	Austria : General. Conventional.
Belgique : 1913 général . 1926 maximum . 1926 minimum . 1926 convention- nel Allemagne. Tchécoslovaquie.	Franc papier	1,—	15 % 5 % 10 %	1,	15 % 5 % 10 %	1,—	13,50 4,50 6,75	2,—	36, 5 63, 6 12, 6 21, 60 5 36, 75 6 21, 60 5 36, 75 6	Belgium : 1913 general. 1926 maximum. 1926 minimum. 1926 conventional Germany. Czechoslovakia.
Danemark : Général	Krone papier	0	0	0	0	0	0	0	0	Denmark : General.
Espagne: Général Deuxième tarif Conventionnel.	Peseta 7	8, 6,40	75,— 30,—	8, 6,40	75. <u>—</u> 30,—	11, <u></u> 8,	58, 22,	9, <u>—</u> 7,—	85,— ? 34,— ?	Spain : General. Second tariff. Conventional.
Royaume-Uni France Suède, Italie		P	27, 27, 27,		27,— 27,— 27,—		20,70 20,70			United Kingdom. France. Sweden, Italy.
France: Général Minimum Conventionnel: Autriche Esthonie Lettonie et Finlande Pologne Tchécoslov Canada Etats-Unis Espagne	Franc papier	22,50 15,—	156, 39, 85,80 156, 85,80 85,80 58,50 39,	7,50 6,50	78, — 19,50 78, — 78, — 78, — 78, — 78, — 22,50 19,50	10,50 7,—	39,20 9,80 39,20 39,20 30,38 30,38 14,70 9,80	13,50 9,—	126,	France : General. Minimum. Conventional : Austria. Estonia, Latvia and Finland. Poland. Czechoslovakia. Canada. U.S.A. Spain.
Hongrie : Général Conventionnel.	Korona gold ⁸	3,80	25,— 15,—	3,80	9,— 6,—	9,50	9,50	15,50	20,—	Hungary : General. Conventional.

1 Conventionnel d'après-guerre: Autriche, Belgique, Italie et Suisse.
2 Alliages de bas contenu.
3 Alliages de haut contenu.
4 Non donné séparément dans le tarif allemand. Mêmes taux que pour « acier rapide ».
5 Tirés à chaud.
6 Tirés à traud.
7 Or (ou équivalent).
8 Depuis le 15 mai 1925, couronnes-papier à 14.500 francs-or.
(La parité exacte: 14.473 cour.-papier pour 1 cour.-or.) 1 Conventionnel d'après-guerre : Autriche, Belgique, Italie

1 Post-war conventional : Austria, Belgium, Italy and Switzerland,

land.
Low-alloyed.
High-alloyed.
Not specified in German tariff. Same rates as high-speed-tool steel.
⁵ Hot-drawn.
⁶ Cold-drawn.
⁷ Gold (or equivalent).
⁸ Since May 15th, 1925, paper crowns at 14,500 per gold-crown. (True parity is 14,473 paper = 1 gold-crown.)

Tableau 1 (suite).

Table 1 (continued).

DROITS DE DOUANE A L'IMPORTATION. Taux par 100 kg., sauf indication contraire.

CUSTOMS IMPORT DUTIES. Rates per 100 kg., unless otherwise noted.

Pays	Etalon monétaire Unit of currency	Acier (en lir High-spo ste (in in	eed-tool	Acier p ^r 1 (en lin Machin (in in	e steel	(bru de 5 ≖ m d Steel (rou	s d'acier ites) 'épaisseur plates ugh) thick	en fer n bruts d'épaisse de 40 cm. Tubes a of malles rough 2 st less than	t tuyaux nalléable, 2 ^{mm} ur, moins de diam. nd pipes able iron, ^{nm} thick, 1 40 cm. neter	Country
		1913	1926	1913	1926	1913	1926	1913	1926	
Italie: Général Conventionnel.	Lira-or	2,75	2 3,90	? 2,75	? 3,90	7,— 7,—	13,60 11,90	15,— 14,—	24,— 24,—	Italy: General. Conventional. Netherlands:
Pays-Bas: Général	Guilder	0	0	0	0	0	0	0	0	General.
Pologne: Général	Zloty-or		5,—		5,—		8,—		25,—	Poland : General. Roumania 1:
Roumanie 1: Général Conventionnel	Leu-or	9,— ?	13,50 ?	9,— ?	13,50 ?	3,—	9,—	9,— 7,—	4,—	General. Conventional.
Royaume-Uni: Général	Livre sterling	0	0	0	0	0	0	0	0	United Kingdom: General.
Royaume des Ser- bes, Croates et Slovènes: Maximum Minimum Conventionnel Suède:	Dina r -or	4,— 2,—	14, 10, 10,	4,— 2,—	14,— 10,— 10,—	6,— 5,—	14, 12, 10,	15, <u>—</u> 8,50	15, 12,	Kingdom of the Serbs, Croats and Slovenes: Maximum. Minimum. Conventional. Sweden
Général	Krona	7,50	7,50	7,50	7,50	3,—	3,—	4,—	4,—	General. Switzerland:
Suisse: Général Conventionnel.	Franc	2,50 0,60	i,—	0,10	0,50	0,60	0,60	1, 0,60	i,—	General. Conventional. Czechoslovakia:
Tchécoslovaquie: Général Conventionnel.	Koruna 9	3,80	38,— 22,—	3,80	38,— 22,—	9,50	114, <u>—</u> 58,50	15,50	248,— 173,60	General. Conventional. Argentine:
Argentine: Général	Peso-oro	2,—	3,52	2,—	3,52		3,52	2,—	3,46	General. Australia:
Australie: Général	Livre	0	30 %	0	30 %	0	4.5	0	40%	General. United Kingdom.
Royaume-Uni Interméd Préf. britannique	sterling	0	25 % 20 %	0	25 % 20 %	U	3.8 2.8	U	35 % 27 ½ %	Intermediate. British pref. Brazil:
Brésil: Général	Milreis	12,—	12,	12,	12,—	12,	12,	10,—	10,—	General. Canada:
Canada: Général Interméd Préf. britannique	s	7, <u>—</u> 6, <u>—</u> 4,25	7,— 6,— 4,25	7,— 6,— 4,25	7,— 6,— 4,25	3, <u></u> 2,75 2,	3, 2,75 2,	15 % 3 12,5 % 3 10 % 3	30 % ▲ 30 % ▲ 20 % ▲	General. Intermediate. British pref.
Chine: 56 Général	Haikwan tael	0,75	5%	0,75	5%	0,25	0,23	5%	5%	China:56 General. U.S.A.:
Etats-Unis: Général	\$	15%	8 %	15 %	8%	15 %	20 % 7	10 %	16,80 8	General. India ⁸ :
Inde ⁸ : Général	Rupee	1%	10%	1%	10%	1%	30,	1%	10 %	General. Japan ⁶ :
Japon 6: Général Conventionnel	Yen	7,5 %	10 %	7,5 %	10 %	0,60	1,10	2,80	18% 9	General. Conventional

1 Coefficient d'après-guerre pour paiements en lei-papier=30,
dès le 5 juin 1926 (parité exacte: 50 env.)
9 Avant-guerre, or; après-guerre, papier.
8 Dépassant le diamètre de 4 pouces.
4 Diamètre de 4 à 10 pouces. Les taux pour ceux de plus de 10 pouces sont: 15, 15, 10 % pour ceux de moins de 4 pouces, 30, 27 ½, 15 %.
6 Augmentés de 10 % dès le 1°r novembre 1925 (Board of Trade Journal, 17 septembre 1925, page 323).
6 Par picul = 133 1/3 lb. anglais = 60 kg.
7 Approximatif. Taux différents, parfois ad valorem, parfois spécifiques (changeant d'après la valeur) de 17 à 35 %, envirou.

8 Par tonne de 1,016 kg.
9 Au-dessous de 15 cm. de diamètre: autres = 15 %.

1 Post-war coefficient for payments in paper-lei=30, from June 5th, 1926 (true parity about 50). 2 Pre-war, gold; post-war, paper. 3 Over 4 inches diameter. 4 to 10 inches diam. Rates for over 10 in. are: 15, 15, 10 per cent. Rates for under 4 in. are: 30, 27 ½, 15 per cent.

S After November ist, 1925, increased by 10 per cent (Board of Trade Journal, September 17th, 1925, page 323).
6 Per picul = 133 1/3 lb. English = 60 kg.
7 Approximate. Various rates, some ad valorem, some specific (varying by value) ranging from about 17 to 35 per cent ad valorem.
8 Per long ton.
9 Under 15 cm, diameter. Other = 15 per cent,

Tableau 2.

COMMERCE DE FONTE ET DE FER ET ACIER.

Table 2. TRADE IN PIG IRON AND OTHER IRON AND STEEL PRODUCTS. Metric tons (000's omitted).

En milliers de tonnes métriques.

Pays	3		Fonte Pig iro			Raw		planchés ngots,	de	icles en for et d Cast ir steel pr	'acie on	r	de	itres ar fer et d Other ir steel pr	'acier on	fe	tal de f er et ao Total ir and ste	cier on	Co	ountry
•		Im- port.	Ex- port.		a- nce 1	Im- port.	Ex- port.	Ba- lance 1	Im- port.	Ex- port.		Ba- nce 1	Im- port.	Ex- port.	Ba- lance 1	Im- port.	Ex- port.	Ba- lance 1		
Allemagne	1913 2 1923 1924 1925	126 313 264 207	856 92 67 226	 + +	730 221 197 19	11 298 162 214	701 62 47 108	690 + 236 + 115 + 106	12	213 130 118 70		193 118 95 51	$ \begin{array}{r} 148 \\ 1.136 \\ 841 \\ 760 \end{array} $	4.539 1.044 1.326 2.859	$\begin{array}{c}4.391 \\ + 92 \\485 \\2.099 \end{array}$	305 1.759 1.290 1.200	6.309 1.328 1.558 3.263	$ \begin{array}{r} -6.004 \\ + & 431 \\ - & 268 \\ - & 2.063 \\ \end{array} $	1913 2 1923 1924 1925	Germany.
Belgique Belgique and Luxemb,	1913 { 1923 1924 1925	579 330 327 325	17 81 130 97	++++++	562 249 197 228	82 99 84 68	159 434 731 923	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4	27 24 29 28		17 19 25 23	217 121 154 140	$\begin{array}{r} 1.372 \\ 1.995 \\ 2.421 \\ 2.064 \end{array}$	$ \begin{array}{r} - 1.155 \\ - 1.874 \\ - 2.267 \\ - 1.924 \end{array} $	888 555 569 538	1.575 2.534 3.311 3.112	$ \begin{array}{c} - & 687 \\ - & 1.979 \\ - & 2.742 \\ - & 2.574 \end{array} $	1913 1923 1924 1925	Belgium. Belgium and Luxemburg
Espagne	1913 1923 1924 1925					105 189 203 217	10 5 24 4	+ 95 + 184 + 179 + 213					81 49 49 59	1 2 3 3	+ 80 + 47 + 46 + 56	186 238 252 276	11 7 27 7	$\begin{array}{rrrr} + & 175 \\ + & 231 \\ + & 225 \\ + & 269 \end{array}$	1913 1923 1924 1925	Spain
Etats-Unis	1913 1923 1924 1925	157 483 281 448	292 38 46 39		135 445 235 409	22 23 40 27	235 7 5 4	- 213 + 16 + 35 + 23		8 28 29 33		28 29 33	78 83 186 300	$2.428 \\ 1.902 \\ 1.658 \\ 1.629$	$\begin{array}{r}2.350 \\1.819 \\1.472 \\1.329 \end{array}$	257 589 507 775	2.955 1.975 1.738 1.705	$ \begin{array}{r} -2.698 \\ -1.386 \\ -1.231 \\ -930 \end{array} $	1913 1923 1924 1925	United States.
France	1913 1923 4 1924 4 1925 4	50 82 56 51	113 494 646 710		63 412 590 659	19 114 77 28	321 907 1.297 2.096	$ \begin{array}{c}$	8	8		{	103 192 127 86	196 889 996 1.069		172 388 260 165	630 2.290 2.939 3.875	$ \begin{array}{c} & 458 \\ & 1.902 \\ & 2.679 \\ & 3.710 \end{array} $	1913 1923 4 1924 4 1925 4	.
Italie	1913 1923 1924 1925	222 132 202 266	1 	+++++++++++++++++++++++++++++++++++++++	221 132 197 264	7 5 30 150		+ 7 + 5 + 30 + 150	31 3 4 4		+++++++++++++++++++++++++++++++++++++++	31 3 4 4	250 81 147 365	18 7 7 6	$ \begin{array}{r} + & 232 \\ + & 74 \\ + & 140 \\ + & 359 \end{array} $	510 221 383 785	19 7 12 8	$\begin{array}{rrrr} + & 491 \\ + & 214 \\ + & 371 \\ + & 777 \end{array}$	1913 1923 1924 1925	Italy
Japon	1923 1924 1925	366 457 316	=	+ + +	366 457 316	{ 3	3		8	8		}	634 976 473	30 52 55	+ 604 + 924 + 418	1.000 1.433 789	30 52 55	$\begin{array}{c} + & 970 \\ + & 1.381 \\ + & 734 \end{array}$	1923 1924 1925	Japan
	1923 1924 1925	94 19 14	1 9 2	+ + +	93 10 12	9 4 4	105 20 16		11 5 5	38 2 3		27 3 2	87 47 29	219 117 79	- 132 - 70 - 50	201 75 52	363 148 100	- 162 - 73 - 48	1923 1924 1925	Poland
Ůni ⁵	1913 1923 1924 1925	219 112 315 291	1.142 906 610 569		923 794 295 278	$522 \\ 434 \\ 719 \\ 663$	4 20 11 5	+ 518 + 414 + 708 + 658	24 21 35 44	240 90 87 97		216 69 52 53	$1.502 \\ 776 \\ 1.399 \\ 1.766 \end{cases}$	3.663 3.371 3.207 3.120	$\begin{array}{r}2.161 \\2.595 \\1.808 \\1.354 \end{array}$	$2:267 \\ 1.343 \\ 2.468 \\ 2.764$	5.049 4.387 3.915 3.791	$ \begin{array}{c} - 2.782 \\ - 3.044 \\ - 1.447 \\ - 1.027 \end{array} $	1913 1923 1924 1925	United Kingdom 5
	1913 1923 1924 1925	100 35 44 51	195 108 92 80		95 73 48 29		15 5 7 5		17 17 14 15	10 5 6 7	++++	7 12 8 8	173 173 273 237	294 120 172 181	$\begin{array}{ccc} - & 121 \\ + & 53 \\ + & 101 \\ + & 56 \end{array}$	290 225 331 303	514 238 277 273	$ \begin{array}{r} - & 224 \\ - & 13 \\ + & 54 \\ + & 30 \end{array} $	1913 1923 1924 1925	Sweden
slovaquie	1925	16 64 62	184 82 83	-	168 18 21	8	3		3	8		{	11 20 27	360 301 401		27 84 89	544 383 484	$ \begin{vmatrix} - & 517 \\ - & 299 \\ - & 395 \end{vmatrix} $	1923 1924 1925	Czecho- slovakia

Excédent d'exportation --; excédent d'importation +.
 Territoire d'avant-guerre, y compris Luxembourg,
 Non donnés séparément.
 Y compris la Sarre. Les statistiques officielles du commerce pour la France comprensent la Sarre en 1925. Dans le tableau ci-dessus, les chiffres pour 1923 et 1924 ont également été modifiés conformément aux chiffres disponibles relatifs au commerce du fer et de l'acier de la France et de l'Allemagne avec la Sarre, ain de les rendre comparables avec les chiffres de 1925.

5 1913 y compris Irlande; 1923-1925 non compris l'Etat libre d'Irlande.

66

Export surplus —; import surplus +.
Pre-war territory, including Luxemburg.
Not shown separately.
The official trade statistics of France include the Saar in 1925. In the above table also the figures for 1923 and 1924 have been adjusted in accordance with available figures for the iron and steel trade of France and Germany with the Saar in order to make them directly comparable with the figures for 1925.

5 1913 including Ireland; 1923-1925 excluding Irish Free State.

Annex III.

ANNEXE IV.

TABLEAUX DÉTAILLÉS DES IMPORTATIONS ET EXPORTATIONS DES MINERAIS DE FER, DÉCHETS DE FER ET DE PRODUITS EN FER ET EN ACIER DES PRINCIPAUX PAYS CONSOMMATEURS ET PRODUCTEURS.

ANNEX IV.

DETAILED TABLES OF IMPORTS AND EXPORTS OF IRON ORE, SCRAP IRON, AND IRON AND STEEL PRODUCTS OF THE PRINCIPAL CONSUMING AND PRODUCING COUNTRIES.

. - 67 -

ALLEMAGNE

1 : A

TRADE IN IRON ORE AND SCRAP IRON.

GERMANY

.

COMMERCE EN MINERAI DE FER ET DÉCHETS DE FER.

Milliers de tonnes m	étriques				•		,	Metric	tons (000's omitted).
Pays	1912	1913	1920	1921	1922	1923	1924	1925	Countries
Minerai de fer.									Iron Ore.
Importations de:									Imports from :
Espagne	3.726 2.692 416 114 3.875 1.297	3.6323.8114813034.5641.233	585 1.183 1.331 580 2.145 91	786 1.260 163 1.076 1.103 1.895 238	$1.329 \\ 2.069 \\ 666 \\ 766 \\ 522 \\ 4.986 \\ 676 \\ 676 \\ \end{array}$	$\begin{array}{r} 337\\ 131\\ 117\\ 50\\ 93\\ 1.254\\ 395 \end{array}$	33518014230542.049286	$1.388 \\ 1.201 \\ 385 \\ 355 \\ 53 \\ 7.402 \\ 756$	Spain. France. Algeria. Luxemburg. Norway. Sweden. Other countrics.
Importations totales Exportations totales	12.120 2.310	14.024 2.613	5.915 75	6.521 491	11.014 173	2.377 255	3.076 129	11.540 202	Total Imports. Total Exports.
Déchets de fer.									Serap Iron.
Importations totales	342	314	257	560	644	174	44	249	Total Imports.
Exportations totales	161	196	, 42	131	98	381	397	286	Total Exports.

1 : B.

ET PAR PAYS D'ORIGINE.

Importations de fonte, fer et acier par articles Imports of Iron and Steel by Articles and by COUNTRIES OF ORIGIN.

	1912	1913	1920	1921	1922	1923	1924	1925	
Articles.									Articles.
Fonte et alliages de fer	140	126	106	136	306	313	264	207	Pig iron and ferro-alloys.
Tuyaux en fonte	1	1	12	20	39	7	17	19	Cast-iron pipes.
Parties de machines en fonte.	9	8	2	4	2	2	2	_	Cast-iron machine parts.
Autres articles en fonte	12	11	4	1	11	3	4		Other castings.
Lingots	12	11	34	124	325	298	162	214	Ingots.
Longuerines	2	1	78	233	163	77	45	131	Girders.
Feuillards et bandes	26	25			642	512	434	347	Hoops and strips.
Plaques, épaisses	4	2			46	49	43	10	Plates, thick.
Plaques entre 1 et 5 mm d'épaisseur	1	1	17	30	28	47	36	20	Plates over 1 and under 5 mm.
Tôles de 1 mm d'épaisseur max	13	13			26	45	17	25	Sheets up to 1 mm.
Plaques étamées, tôles galvanisées									Tinned plates, galvanised sheets
et autres plaques recouvertes	49	42	4	3	18	21	18	17	and other coated plates.
Autres plaques	—				1	2	1	_	Other plates.
Fils de fer laminés ou tirés, et									Wire, rolled or drawn, and wire
tiges	15	12	14	31	51	108	50	48	rods.
Fils de fer et câbles	1	1						<u> </u>	Wire and wire ropes.
Autres articles en fil	1	1			_			·	Other wire goods.
Clous en fil	í	1						_	Wire nails.
Tubes en spirale et autres	5	8	2	3	12	36	24	15	Coll tubes and other tubes.
Rails, rails de tramways, traverses,									Rails, tram rails, sleepers and
éclisses et autres matériaux									fishplates, and other per-
de voie ferrée	2		16	69	147	198	134	96	manent-way material.
Roues de chemins de fer, essieux									Railway wheels, axles and
et bandages	2	1		_	3	14	5	1	tyres.
Articles de fer et acier, fer en bar-								-	Iron and steel goods, bar iron,
res laminé ou étiré à froid	21	23	5	5	11	8	10		cold-rolled or drawn.
Fer et acier de construction		i	3	2	37	2	—	5	Structural iron and steel.
Vis, clous et rivets	1	2	2	4	7	3	9		Screws, nails and rivets.
Chaines, etc	4	4	—	—	—			— ·	Chains, etc.
Non spécifiés	10	10	20	10	15	14	15	45	Unenumerated.
-					·				
Total	332	305	319	675	1.856	1.759	1.290	1.200	Total,

÷

1 Mai-décembre.

1 May-December.

Annexe IV.

ALLEMAGNE (suite)

GERMANY (continued)

IMPORTATIONS DE FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS D'ORIGINE

IMPORTS OF IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF ORIGIN Metric tone (000's omitted)

Milliers de tonnes métriques.

	moundo						WELL	IC LOUS (C	ov 6 omittea).
	1912	1913	1920	1921	1922	1923	1924	1925	
Pays d'origine.			_						G ountries of Origin.
Belgique	167	11	2		5	—	2	18	Belgium.
France	42	7	3	27	5	2	2	30	France.
Royaume-Uni	38	160	12	1	55	248	81	50	United Kingdom.
Suède	8	75	20	14	21	63	27	46	Sweden.
Autriche	5	24	7	3	21	146	22	15	Austria.
Etats-Unis	5	12	19	13	1	—	2	_	United States.
Luxembourg		—	54	207	516	153	206	199	Luxemburg.
Tchécoslovaquie			7	4	23	320	136	72	Czechoslovakia.
Sarre			151	276	480	258	317	437	Saar.
Alsace-Lorraine		_	14	113	507	113	272	192	Alsace-Lorraine.
Haute-Silésie polonaise	—		- 1	3	187	409	194	73	Polish Upper Silesia.
Autres pays	67	16	29	14	35	47	29	68	Other countries.
Total.	332	305	319	675	1.856	1.759	1.290	1.200	Total.

1 : C.

EXPORTATIONS DE FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS DE DESTINATION.

EXPORTS OF IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF DESTINATION.

	1912	1913	1920	1921	1922	1923	1924	1925 1	
Articles.		1010	1020	v-XII	10.22	10.00	1021	1020 -	Articles.
Fonte et alliage de fer	1.059	856	84	176	180	92	67	226	
									Pig iron and ferro-alloys.
Tuyaux en fonte	57	73	23	23	49	36	35	70	Cast-iron pipes.
Autres articles en fonte	24	130	84	60	108	94	83		Other castings.
Lingots, loupes, billettes et planches	695	701	20	27	112	62	47	108	Ingots, blooms, billets and slabs.
Longuerines.	497	447	460	345	39	25	21	71	Girders.
Feuillards et bandes	487	1.173		1	474	172	222	536	Hoops and strips.
Plaques épaisses.	299	461		1	170	117	122	299	Plates, thick.
Diaguos do A à 5 mm diánciasous	92	108 }	232	150 \$	47	37	50	58	
Plaques de 1 à 5 mm. d'épaisseur			232	100 }					Plates over 1 and under 5 mm.
Tôles d'un mm. maximum	33	41)		(26	13	29	32	Sheets, up to 1 mm.
Plaques étamées, tôles galvanisées									Tinned plates, galvanised sheets.
Plaques et tôles, autres	49	54	16	23	27	19	18	35	Other plates and sheets.
Fils, laminés ou tirés, tiges de fil .	434	462	84	118	174	123	175	340	Wire, rolled or drawn, wire rods.
Tuyaux et tubes	237	336	84	72	135	53	88	240	Pipes and tubes.
	523	5017	••	·~ (286	42	58	293	Rails.
				1	23	-4	23	235	
Traverses	139	102							Sleepers.
Eclisses	53	33 }	140	210	33	5	8	32	Fishplates.
Solives de rails et autre matériel		ł		I					Rail joist studs and other rail-
de chemin de fer	35	34		1	26	10	12		way material.
Roues de chemin de fer, essieux,		-		•					Railway wheels, axles and buffer
tampons de ressort	111	113	29	39	52	18	22	71	springs.
	86	109	44	43	50	16	$\tilde{2}\tilde{3}$	48	Structural iron and steel.
Fer et acier de construcion		27		22	29	13	24	40	
Vis, clous, rivets, écrous, boulons	23		25						Screws, nails, rivets, nuts, bilts.
Cables, treillis, fils barbelés	7	7	23	31	65	41	73	53	Wire ropes, wire netting and
									barbed wire.
Clous de fil.	57	69	31	47	67	60	70	57	Wire nails.
Non anéailléa	524	472	346	240	402	276	288	615	Unenumerated.
Non spécifiés									
Total	5.881	6.309	1.725	1.626	2.574	1.328	1.558	3.263	Total.
Total									Total.
Total	5.881	6.309	1.725	1.626	2.574	1.328	1.558	3.263	Total. Countries of Destination.
Total Pays de destination. Belgique	5.881 794	6.309 646	1.725	1.626	2.574	1.328	1.558	3.263	Total. Countries of Destination. Belgium.
Total Pays de destination. Belgique Danemark	5.881 794 155	6.309 646 167	1.725 67 177	1.626 67 65	2.574 108 126	1.328 25 95	1.558	3.263 91 71	Total. Countries of Destination. Belgium. Denmark.
Total Pays de destination. Belgique	5.881 794	6.309 646	1.725 67 177 34	1.626 67 65 11	2.574 108 126 12	1.328 25 95 2	1.558 7 105	3.263 91 71 1	Total. Countries of Destination. Belgium. Denmark. France.
Total Pays de destination. Belgique Danemark France	5.881 794 155 236	6.309 646 167 225	1.725 67 177 34 55	1.626 67 65 11 65	2.574 108 126 12 89	1.328 25 95 2 13	1.558 7 105 3	3.263 91 71 1 2	Total. Countries of Destination. Belgium. Denmark. France. Saar.
Total.	5.881 794 155 236	6.309 646 167 225	1.725 67 177 34	1.626 67 65 11	2.574 108 126 12	1.328 25 95 2 13 167	1.558 7 105	3.263 91 71 1	Total. Countries of Destination. Belgium. Denmark. France.
Total.	5.881 794 155 236 555	6.309 646 167 225 600	1.725 67 177 34 55 490	1.626 67 65 11 65 329	2.574 108 126 12 89	1.328 25 95 2 13	$ \begin{array}{r} 1.558 \\ 7 \\ 105 \\ \overline{3} \\ 114 \end{array} $	3.263 91 71 1 2	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands.
Total, Pays de destination. Belgique Danemark France Sarre Pays-Bas Roysume-Unit	5.881 794 155 236 555 1.021	6.309 646 167 225 600 1.205	1.725 67 177 34 55 490 41	1.626 67 65 11 65 329 163	2.574 108 126 12 89 464 160	1.328 25 95 2 13 167 115	$ \begin{array}{r} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \end{array} $	3.263 91 71 1 2 561 384	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom.
Total. Pays de destination. Belgique Danemark France Sarre. Pays-Bas Royaume-Uni Norvège	5.881 794 155 236 555 1.021 101	6.309 646 167 225 600 1.205 115	1.725 67 177 34 55 490 41 100	1.626 67 65 11 65 329 163 46	2.574 108 126 12 89 464 160 69	1.328 25 95 2 13 167 115 37	$ \begin{array}{r} 1.558 \\ 7 \\ 105 \\ \overline{3} \\ 114 \\ 125 \\ 38 \end{array} $	3.263 91 71 1 2 561 384 38	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway.
Total. Pays de destination. Belgique . . Danemark . . France . . Sarre . . Pays-Bas . . Royaume-Uni . . Suède . .	5.881 794 155 236 555 1.021 101 114	$ \begin{array}{r} 6.309\\ 646\\ 167\\ 225\\ \hline 600\\ 1.205\\ 115\\ 150\\ \end{array} $	1.725 67 177 34 55 490 41 100 126	1.626 67 65 11 65 329 163 46 68	2.574 108 126 12 89 464 160 69 88	1.328 25 95 2 13 167 115 37 61	1.558 7 105 3 114 125 38 63	3.263 91 71 1 2 561 384 38 38 92	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden.
Total, Pays de destination. Belgique Danemark Danemark Sarre Pays-Bas Roysume-Uni Norvège Suide Russie et Finlande	5.881 794 155 236 555 1.021 101 114 148	6.309 646 167 225 600 1.205 115 150 160	1.725 67 177 34 55 490 41 100 126 27	1.626 67 65 11 65 329 163 46 68 96	2.574 108 126 12 89 464 160 69 88 41	1.328 25 95 2 13 167 115 37 61 23	1.558 7 105 3 114 125 38 63 10	3.263 91 71 1 2 561 384 38 92 53	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland.
Total, Pays de destination. Belgique Danemark Danemark Sarre Pays-Bas Roysume-Uni Norvège Suide Russie et Finlande	5.881 794 155 236 555 1.021 101 114 148	6.309 646 167 225 600 1.205 115 150 160	1.725 67 177 34 55 490 41 100 126 27 2	1.626 67 65 11 65 329 163 46 68 96 14	2.574 108 126 12 89 464 160 69 88 41 28	1.328 25 95 2 13 167 115 37 61 23 12	1.558 7 105 3 114 125 38 63 10 3	3.263 91 71 2 561 384 38 92 53 8	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States.
Total. Pays de destination. Belgique Danemark France Sarre Pays-Bas Royaume-Uni Norvège Suède Russie et Finlande Etats baltes Haute-Silésie polonaise	5.881 794 155 236 555 1.021 101 114 148	6.309 646 167 225 600 1.205 115 150 160	1.725 67 177 34 55 490 41 100 126 27 2	1.626 67 65 11 65 329 163 46 68 96 14	2.574 108 126 12 89 464 160 69 88 41 28 176	1.328 25 95 2 13 167 115 37 61 23 12 139	1.558 7 105 3 114 125 38 63 10 3 30	3.263 91 71 2 561 384 38 92 53 8 4	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia.
Total. Pays de destination. Belgique Danemark France Sarre Pays-Bas Royaume-Uni Norvège Suède Russie et Finlande Etats baltes Haute-Silésie polonaise	5.881 794 155 236 555 1.021 101 114 148	6.309 646 167 225 600 1.205 115 150 160	1.725 67 177 34 55 490 41 100 126 27 2	1.626 67 65 11 65 329 163 46 68 96 14	2.574 108 126 12 89 464 160 69 88 41 28 41 28 176 73	1.328 25 95 2 13 167 115 37 61 23 12 139 24	$ \begin{array}{r} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 38 \\ 63 \\ 10 \\ 30 \\ 23 \\ \end{array} $	3.263 91 71 2 561 384 384 384 384 38 92 53 8 4 28	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria.
Total, Pays de destination. Belgique Danemark Danemark Sarre. Sarre. Sarre. Pays-Bas Sarre. Royaume-Uni Norvège Suède Suède Russie et Finlande Etats baltes Haute-Silésie polonaise Autriche	5.881 794 155 236 555 1.021 101 114 148	6.309 646 167 225 600 1.205 115 150 160	1.725 67 177 34 55 490 41 100 126 27 2	1.626 67 65 11 65 329 163 46 68 96 14	2.574 108 126 12 89 464 160 69 88 41 28 176	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5	1,558 7 105 3 114 125 38 63 10 3 0 23 3	3.263 91 71 2 561 384 38 92 53 8 4	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia.
Total,Pays de destination.BelgiqueDanemarkDanemarkSarre.Pays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeEtats baltesHaute-Silésie polonaiseAutricheTchécoslovaquieLing	5.881 794 155 236 555 1.021 101 114 148 255	6.309 646 167 225 600 1.205 115 150 160 243	$ \begin{array}{r} 1.725 \\ 67 \\ 177 \\ 34 \\ 55 \\ 490 \\ 41 \\ 100 \\ 126 \\ 27 \\ 2 \\ \hline 54 \\ 22 \end{array} $	$ \begin{array}{r} 1.626 \\ 67 \\ 65 \\ 329 \\ 163 \\ 46 \\ 68 \\ 96 \\ 14 \\ \overline{98} \\ 26 \\ \end{array} $	2.574 108 126 12 89 464 160 69 88 41 28 176 73 26	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5	1,558 7 105 3 114 125 38 63 10 3 0 23 3	3.263 91 71 2 561 384 38 92 53 8 92 53 8 4 28 13	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia.
Total.Pays de destination.BelgiqueDanemarkFranceSarre.Sarre.Pays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeEtats baltesHaute-Silésie polonaiseAutricheTchécoslovaquieSuèse	5.881 794 155 236 555 1.021 101 114 148 255 346	6.309 646 167 225 600 1.205 115 150 160 243 337	$ \begin{array}{r} 1.725 \\ 67 \\ 177 \\ 34 \\ 55 \\ 490 \\ 41 \\ 100 \\ 126 \\ 27 \\ 2 \\ \hline 54 \\ 22 \\ 130 \\ \end{array} $	$ \begin{array}{r} 1.626 \\ 67 \\ 65 \\ 329 \\ 163 \\ 46 \\ 68 \\ 96 \\ 14 \\ 98 \\ 26 \\ 32 \end{array} $	2.574 108 126 12 89 464 160 69 88 41 28 176 73 26 64	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36	$ \begin{array}{r} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 38 \\ 63 \\ 10 \\ 30 \\ 23 \\ 30 \\ 23 \\ 46 \\ \end{array} $	3.263 91 71 2 561 384 38 92 53 8 92 53 8 4 28 13 46	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland.
Total,Pays de destination.BelgiqueDanemarkDanemarkPays-BasRoysume-UniNorvègeSuèdeRussie et FinlandeEtats baltesHaute-Silésie polonaiseAutricheTchécoslovaquieSuisseLitalie	5.881 794 155 236 555 1.021 101 114 148 255 346 266	6.309 646 167 225 600 1.205 115 150 160 243 337 290	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 130\\ 37\\ \end{array}$	$ \begin{array}{r} 1.626 \\ 67 \\ 65 \\ 11 \\ 65 \\ 329 \\ 163 \\ 46 \\ 68 \\ 96 \\ 14 \\ \hline 98 \\ 26 \\ 32 \\ 28 \\ \end{array} $	2.574 108 126 12 89 464 160 69 88 41 28 88 41 28 176 73 26 64 43	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36 18	1.558 7 105 3 114 125 38 63 10 3 30 23 3 46 18	3.263 91 71 2 561 384 38 92 53 8 92 53 8 4 28 13 46 36	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy.
Total,Pays de destination.BelgiqueDanemarkDanemarkDanemarkSarreSarrePays-BasPays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeEtats baltesHaute-Silésie polonaiseAutricheTchécoslovaquieSuisseItalie	5.881 794 155 236 555 1.021 101 114 148 255 346 266 25	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61	$ \begin{array}{r} 1.725 \\ 67 \\ 177 \\ 34 \\ 55 \\ 490 \\ 41 \\ 100 \\ 126 \\ 27 \\ 2 \\ \hline 54 \\ 22 \\ 130 \\ \end{array} $	$ \begin{array}{r} 1.626 \\ 67 \\ 65 \\ 329 \\ 163 \\ 46 \\ 68 \\ 96 \\ 14 \\ \hline 98 \\ 26 \\ 32 \\ 28 \\ 6 \end{array} $	2.574 108 126 89 464 160 69 88 464 160 69 88 41 28 176 73 26 64 43 26 64 40	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36 18 7	1.558 7 105 3 114 125 38 63 10 3 30 23 3 3 30 23 3 46 18 2	3.263 91 71 2 561 384 38 92 53 8 92 53 8 4 28 13 46 36 19	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain.
Total.Pays de destination.BelgiqueDanemarkFranceSarrePays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeEtats baltesHaute-Silésie polonaiseAutricheSuèseItalieEspagne	5.881 794 155 236 555 1.021 101 114 148 255 346 265 26 147	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61 132	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 22\\ 130\\ 37\\ 10\\ \end{array}$	$ \begin{array}{r} 1.626 \\ 67 \\ 65 \\ 11 \\ 65 \\ 329 \\ 163 \\ 46 \\ 68 \\ 96 \\ 14 \\ \overline{98} \\ 26 \\ 32 \\ 28 \\ 6 \\ 2 \end{array} $	2.574 108 126 89 464 160 69 88 41 28 69 88 176 73 26 64 43 40	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36 18 7 23	$\begin{array}{r} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 38 \\ 63 \\ 10 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 46 \\ 18 \\ 2 \\ 14 \end{array}$	3.263 91 71 2 561 384 38 92 53 8 4 28 13 46 36 19 15	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania.
Total.Pays de destination.BelgiqueDanemarkFranceSarrePays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeEtats baltesHaute-Silésie polonaiseAutricheSuèseItalieEspagne	5.881 794 155 236 555 1.021 101 114 148 255 346 266 25	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 130\\ 37\\ \end{array}$	$ \begin{array}{r} 1.626 \\ 67 \\ 65 \\ 329 \\ 163 \\ 46 \\ 68 \\ 96 \\ 14 \\ \hline 98 \\ 26 \\ 32 \\ 28 \\ 6 \end{array} $	2.574 108 126 89 464 160 69 88 41 28 176 64 41 28 176 64 43 40 49 103	1.328 25 95 22 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42	1.558 7 105 3 114 125 38 63 10 3 3 30 23 3 3 46 18 23 3 4 18 2 14 14 71	3.263 91 71 2 561 384 384 38 92 53 8 4 28 13 46 366 19 15 125	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India.
Total,Pays de destination.BelgiqueDanemarkDanemarkPays-BasRoyaume-UniNorvègeSuèdeSuèdeLattesHaute-Silésie polonaiseAutricheTchécoslovaquieSuisseLitalieLitalieLitalieLitalieLoumanieIndes britanniques	5.881 794 155 236 555 1.021 101 114 148 255 346 265 26 147	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61 132	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 555\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ \\ \\ 54\\ 42\\ 27\\ 2\\ \\ 22\\ 130\\ 37\\ 10\\ \\ 71\\ \end{array}$	1.626 67 65 11 65 329 163 46 68 96 14 98 26 32 28 6 2 2	2.574 108 126 12 12 89 464 160 69 88 84 160 69 88 41 28 73 26 64 43 40 49 103 57	1.328 25 95 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42 21	$\begin{array}{c} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 38 \\ 63 \\ 10 \\ 330 \\ 23 \\ 30 \\ 23 \\ 346 \\ 18 \\ 2 \\ 14 \\ 711 \\ 24 \end{array}$	$\begin{array}{c} 3.263\\ & 91\\ & 71\\ & 1\\ & 2\\ 561\\ & 384\\ & 38\\ & 38\\ & 38\\ & 38\\ & 53\\ & 53\\ & 53\\ & 53\\ & 53\\ & 46\\ & 19\\ & 15\\ & 125\\ & 125\\ & 62\end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies.
Total. Pays de destination. Belgique Danemark France Sarre. Sarre. Sarre. Sarre. Sayaume-Uni Norvège Suède Russie et Finlande Etats baltes Haute-Silésie polonaise Suisse Suisse Italie Espagne Roumanie Indes britanniques	5.881 794 155 236 555 1.021 101 114 148 255 346 255 256 256 25 147 110	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61 132 213	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 22\\ 130\\ 37\\ 10\\ \end{array}$	$ \begin{array}{r} 1.626 \\ 67 \\ 65 \\ 11 \\ 65 \\ 329 \\ 163 \\ 46 \\ 68 \\ 96 \\ 14 \\ \overline{98} \\ 26 \\ 32 \\ 28 \\ 6 \\ 2 \end{array} $	2.574 108 126 89 464 160 69 88 41 28 176 64 41 28 176 64 43 40 49 103	1.328 25 95 22 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42	1.558 7 105 3 114 125 38 63 10 3 3 30 23 3 3 46 18 23 3 4 18 2 14 14 71	3.263 91 71 2 561 384 38 92 53 8 92 53 8 4 28 13 46 36 19 15 125	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan.
Total.Pays de destination.BelgiqueDanemarkDanemarkFranceSarrePays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeEtats baltesHaute-Silésie polonaiseAutricheSuèseSuèseItalieEspagneRoumanieIndes britanniquesIndes néerlandaisesChine et Japon	5.881 794 155 236 555 1.021 101 114 148 255 346 265 25 346 265 147 110 207	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61 132 213 314	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 22\\ 130\\ 37\\ 10\\ 71\\ 9\end{array}$	$\begin{array}{c} 1.626\\ 67\\ 65\\ 111\\ 65\\ 329\\ 163\\ 46\\ 68\\ 96\\ 14\\ \hline \\ 98\\ 26\\ 32\\ 28\\ 6\\ 2\\ 28\\ 6\\ 2\\ 2\\ 8\\ 6\\ 2\\ 2\\ 8\\ 94 \end{array}$	2.574 108 126 12 12 89 464 160 69 88 84 160 69 88 41 28 73 26 64 43 40 49 103 57	1.328 25 95 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42 21	$\begin{array}{c} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 38 \\ 63 \\ 10 \\ 330 \\ 23 \\ 30 \\ 23 \\ 346 \\ 18 \\ 2 \\ 14 \\ 711 \\ 24 \end{array}$	$\begin{array}{c} 3.263\\ & 91\\ & 71\\ & 1\\ & 2\\ 561\\ & 384\\ & 38\\ & 38\\ & 38\\ & 38\\ & 53\\ & 53\\ & 53\\ & 53\\ & 53\\ & 46\\ & 19\\ & 15\\ & 125\\ & 125\\ & 62\end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan. Brazil and Argentine.
Total,Pays de destination.BelgiqueDanemarkDanemarkDanemarkSarre.Sarre.Pays-BasRoyaume-UniNorvègeSuèdeSuèdeAutricheHaute-Silésie polonaiseHaute-Silésie polonaiseAutricheSuisseSuisseItalieEspagneRoumanieIndes néerlandaisesChine et JaponBrésil et Argentine	5.881 794 155 236 555 1.021 101 114 148 255 266 266 266 267 147 110 207 381	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61 132 213 314 484	$\begin{array}{c} \textbf{1.725}\\ \textbf{67}\\ \textbf{177}\\ \textbf{34}\\ \textbf{55}\\ \textbf{490}\\ \textbf{41}\\ \textbf{100}\\ \textbf{126}\\ \textbf{27}\\ \textbf{27}\\ \textbf{22}\\ \textbf{130}\\ \textbf{37}\\ \textbf{10}\\ \textbf{71}\\ \textbf{9}\\ \textbf{75} \end{array}$	$ \begin{array}{c} 1.626\\ 67\\ 65\\ 11\\ 65\\ 329\\ 163\\ 46\\ 68\\ 96\\ 14\\ -98\\ 26\\ 32\\ 28\\ 6\\ 2\\ -94\\ 94\\ 79 \end{array} $	2.574 108 12 89 464 160 69 88 41 28 176 64 41 28 176 64 43 40 49 49 40 43 57 173 256	1.328 25 95 22 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42 21 109 109	$\begin{array}{c} 1.558\\ 7\\ 105\\ 3\\ 14\\ 125\\ 38\\ 63\\ 10\\ 123\\ 3\\ 30\\ 23\\ 3\\ 3\\ 46\\ 10\\ 23\\ 3\\ 3\\ 46\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$	$\begin{array}{c} 3.263\\ & 91\\ & 71\\ & 2\\ 561\\ & 384\\ & 38\\ & 92\\ & 53\\ & 8\\ & 4\\ & 28\\ & 13\\ & 46\\ & 36\\ & 19\\ & 15\\ & 125\\ & 62\\ & 142\\ \end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan. Brazil and Argentine.
Total.Pays de destination.Belgique	5.881 794 155 236 555 1.021 101 114 148 255 255 346 266 255 147 110 207 381 27	6.309 646 167 225 	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 555\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 126\\ 27\\ 2\\ 22\\ 130\\ 37\\ 10\\ 71\\ 9\\ 75\\ 1\end{array}$	$\begin{array}{c} 1.626\\ 67\\ 65\\ 111\\ 65\\ 329\\ 163\\ 46\\ 68\\ 96\\ 14\\ \hline 98\\ 26\\ 32\\ 28\\ 6\\ 2\\ 2\\ 8\\ 6\\ 2\\ 94\\ 79\\ \hline 94\\ 79\\ \hline \end{array}$	2.574 108 128 89 464 160 69 88 41 28 841 28 41 28 41 28 41 28 41 28 41 28 57 179 256 23	1.328 25 95 2 13 167 115 37 61 23 129 24 5 36 18 7 23 42 23 42 21 109 109 20	$\begin{array}{c} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 38 \\ 63 \\ 10 \\ 30 \\ 23 \\ 30 \\ 23 \\ 30 \\ 23 \\ 46 \\ 18 \\ 2 \\ 144 \\ 142 \\ 142 \\ 158 \\ 18 \end{array}$	$\begin{array}{c} 3.263 \\ \cdot & 91 \\ 71 \\ 1 \\ 2 \\ 561 \\ 384 \\ 38 \\ 92 \\ 53 \\ 8 \\ 4 \\ 28 \\ 13 \\ 46 \\ 36 \\ 15 \\ 125 \\ 125 \\ 125 \\ 142 \\ 145 \end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan. Brazil and Argentine.
Total.Pays de destination.BelgiqueDanemarkDanemarkFranceSarrePays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeHaute-Silésie polonaiseAutricheTchécoslovaquieSuisseItalieEspagneRoumanieIndes britanniquesIndes néerlandaisesBrésil et ArgentineEtats-UnisAfrique du Sud britannique	5.881 794 155 236 555 1.021 101 114 148 255 266 265 266 267 147 110 207 381 27	$\begin{array}{c} 6.309\\ 646\\ 167\\ 225\\ 600\\ 1.205\\ 115\\ 150\\ 160\\ -\\ 243\\ 337\\ 290\\ 61\\ 132\\ 213\\ 334\\ 484\\ 54\\ -\end{array}$	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 130\\ 37\\ 10\\ 71\\ 9\\ 75\\ 1\end{array}$	$ \begin{array}{c} 1.626\\ 67\\ 65\\ 11\\ 65\\ 329\\ 163\\ 46\\ 68\\ 96\\ 14\\ -98\\ 26\\ 32\\ 28\\ 6\\ 2\\ 8\\ 28\\ 6\\ 2\\ 94\\ 79\\ -2\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 96\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 8\\ 96\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 8\\ 96\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$	$\begin{array}{c} 2.574 \\ 108 \\ 126 \\ 12 \\ 89 \\ 464 \\ 160 \\ 69 \\ 88 \\ 176 \\ 73 \\ 26 \\ 41 \\ 28 \\ 173 \\ 26 \\ 43 \\ 40 \\ 40 \\ 40 \\ 40 \\ 103 \\ 57 \\ 179 \\ 256 \\ 23 \\ 29 \end{array}$	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42 21 109 109 109	$\begin{array}{c} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 125 \\ 38 \\ 63 \\ 10 \\ 30 \\ 23 \\ 3 \\ 61 \\ 10 \\ 23 \\ 3 \\ 61 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	$\begin{array}{c} 3.263\\ & 91\\ & 71\\ & 2\\ 561\\ 384\\ & 38\\ & 92\\ 53\\ & 8\\ & 92\\ 53\\ & 8\\ & 46\\ 36\\ & 19\\ & 125\\ & 62\\ & 142\\ & 145\\ & 53\\ \end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan. Brazil and Argentine. United States. British South Africa.
Total.Pays de destination.BelgiqueDanemarkDanemarkFranceSarrePays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeHaute-Silésie polonaiseAutricheTchécoslovaquieSuisseItalieEspagneRoumanieIndes britanniquesIndes néerlandaisesBrésil et ArgentineEtats-UnisAfrique du Sud britannique	5.881 794 155 236 555 1.021 101 114 148 255 255 346 266 255 147 110 207 381 27	6.309 646 167 225 	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 555\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 126\\ 27\\ 2\\ 22\\ 130\\ 37\\ 10\\ 71\\ 9\\ 75\\ 1\end{array}$	$\begin{array}{c} 1.626\\ 67\\ 65\\ 111\\ 65\\ 329\\ 163\\ 46\\ 68\\ 96\\ 14\\ \hline 98\\ 26\\ 32\\ 28\\ 6\\ 2\\ 2\\ 8\\ 6\\ 2\\ 94\\ 79\\ \hline 94\\ 79\\ \hline \end{array}$	2.574 108 128 89 464 160 69 88 41 28 841 28 41 28 41 28 41 28 41 28 41 28 57 179 256 23	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42 21 109 109 208	$\begin{array}{c} 1.558 \\ 7\\ 105 \\ 3\\ 114 \\ 125 \\ 38\\ 63 \\ 30 \\ 23 \\ 3\\ 30 \\ 23 \\ 3\\ 30 \\ 10 \\ 23 \\ 3\\ 46 \\ 18 \\ 24 \\ 142 \\ 158 \\ 188 \\ 188 \\ 24 \\ 158 \\ 15$	$\begin{array}{c} 3.263 \\ \cdot & 91 \\ 71 \\ 1 \\ 2 \\ 561 \\ 384 \\ 38 \\ 92 \\ 53 \\ 8 \\ 4 \\ 28 \\ 13 \\ 46 \\ 36 \\ 15 \\ 125 \\ 125 \\ 125 \\ 142 \\ 145 \end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan. Brazil and Argentine.
Total.Pays de destination.BelgiqueDanemarkDanemarkDanemarkFranceSarreSarreSarrePays-BasNorvègeSuèdeNorvègeSuèdeSuèdeRussie et FinlandeHaute-Silésie polonaiseHaute-Silésie polonaiseHaute-Silésie polonaiseAutricheSuèseTchécoslovaquieHaute-SilésieSuisseHaute-SilésieItalieSuisseItalieSuisseEspagneHaute-SilésieBoumanieHaute-SilésieIndes britanniquesHaute-SilésieIndes britanniquesHaute-SilésieIndes let ArgentineHaute-SilésieBrésil et ArgentineHaute-SilésieEtats-UnisHaute-SilésieAfrique du Sud britanniqueAutres pays ou non spécifiés	5.881 794 155 236 555 1.021 101 114 148 255 266 255 266 266 267 147 110 207 381 27 993	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61 132 213 314 484 54 913	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 54\\ 22\\ 130\\ 37\\ 10\\ 71\\ 9\\ 75\\ 1\\ 197\\ \end{array}$	1.626 67 65 11 65 329 163 46 68 96 14 98 26 32 28 6 2 94 79 2 335	$\begin{array}{c} 2.574 \\ 108 \\ 120 \\ 89 \\ 464 \\ 160 \\ 69 \\ 88 \\ 411 \\ 28 \\ 173 \\ 26 \\ 64 \\ 43 \\ 40 \\ 103 \\ 577 \\ 103 \\ 577 \\ 256 \\ 23 \\ 29 \\ 271 \end{array}$	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42 21 109 109 208	$\begin{array}{c} 1.558 \\ 7 \\ 105 \\ 3 \\ 114 \\ 125 \\ 125 \\ 38 \\ 63 \\ 10 \\ 30 \\ 23 \\ 3 \\ 61 \\ 10 \\ 23 \\ 3 \\ 61 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	$\begin{array}{c} 3.263\\ & 91\\ & 71\\ & 2\\ 561\\ 384\\ & 38\\ & 92\\ 53\\ & 8\\ & 92\\ 53\\ & 8\\ & 46\\ 36\\ & 19\\ & 125\\ & 62\\ & 142\\ & 145\\ & 53\\ \end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan. Brazil and Argentine. United States. British South Africa.
Total.Pays de destination.BelgiqueDanemarkDanemarkFranceSarrePays-BasRoyaume-UniNorvègeSuèdeRussie et FinlandeHaute-Silésie polonaiseAutricheTchécoslovaquieSuisseItalieEspagneRoumanieIndes britanniquesIndes néerlandaisesBrésil et ArgentineEtats-UnisAfrique du Sud britannique	5.881 794 155 236 555 1.021 101 114 148 255 266 265 266 267 147 110 207 381 27	6.309 646 167 225 600 1.205 115 150 160 243 337 290 61 132 213 314 484 54	$\begin{array}{c} 1.725\\ 67\\ 177\\ 34\\ 55\\ 490\\ 41\\ 100\\ 126\\ 27\\ 2\\ 54\\ 22\\ 130\\ 37\\ 10\\ 71\\ 9\\ 75\\ 1\end{array}$	$ \begin{array}{c} 1.626\\ 67\\ 65\\ 11\\ 65\\ 329\\ 163\\ 46\\ 68\\ 96\\ 14\\ -98\\ 26\\ 32\\ 28\\ 6\\ 2\\ 8\\ 28\\ 6\\ 2\\ 94\\ 79\\ -2\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 96\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 8\\ 96\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 8\\ 96\\ -2\\ 8\\ 94\\ 79\\ -2\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$	$\begin{array}{c} 2.574 \\ 108 \\ 126 \\ 12 \\ 89 \\ 464 \\ 160 \\ 69 \\ 88 \\ 176 \\ 73 \\ 26 \\ 41 \\ 28 \\ 173 \\ 26 \\ 43 \\ 40 \\ 40 \\ 40 \\ 40 \\ 103 \\ 57 \\ 179 \\ 256 \\ 23 \\ 29 \end{array}$	1.328 25 95 2 13 167 115 37 61 23 12 139 24 5 36 18 7 23 42 21 109 109 109	$\begin{array}{c} 1.558 \\ 7\\ 105 \\ 3\\ 114 \\ 125 \\ 38\\ 63 \\ 30 \\ 23 \\ 3\\ 30 \\ 23 \\ 3\\ 30 \\ 10 \\ 23 \\ 3\\ 46 \\ 18 \\ 24 \\ 142 \\ 158 \\ 188 \\ 188 \\ 24 \\ 158 \\ 15$	$\begin{array}{r} 3.263\\ & 91\\ & 71\\ & 2\\ 561\\ 384\\ & 38\\ & 92\\ 53\\ & 8\\ & 46\\ & 36\\ & 15\\ & 125\\ & 62\\ & 142\\ & 145\\ & 53\\ & 1.274\\ \end{array}$	Total. Countries of Destination. Belgium. Denmark. France. Saar. Netherlands. United Kingdom. Norway. Sweden. Russia and Finland. Baltic States. Polish Upper Silesia. Austria. Czechoslovakia. Switzerland. Italy. Spain. Roumania. British India. Dutch East Indies. China and Japan. Brazil and Argentine. United States. British South Africa. Other countries or unspecified.

1 Les chiffres ne sont pas exactement comparables avec ceux des années précédentes à cause du changement de classification.

¹ Figures not exactly comparable with those for earlier years on account of change in classification.

Annex IV.

Annexe IV.				_	- 70 -	<u> </u>	:			Annes
B	ELGIQU	E							BELGI	UM
		-			2 : A.				-	
Commerce en mineral	DE FER, I	DÉCHET	S ET FEI	RRAILLE			TRA	de in I	RON OF	RE AND SCRAP.
Milliers de	-							Metric	tons (000	's omitted)
1	1912	1913	1920	1921	1922	1922	1923	1924	1925	
		•			I-IV	V-XII				
Minerai de fer.					Belgique	U.E.B.I	J.		-	Iron_Ore.
Importations de: France	4.396	4.754	1.261	910	571	2.332	5.960	8.355	8.211	Imports from : France
Norvège Espagne	$170 \\ 159$	256 153	170 151	149 101	64 55	167 76	340 132	$539 \\ 120$	475 138	Norway Spain
Suède	57 51	63	93 50	21 58	$\frac{1}{27}$	15 26	44 26	29 35	11 28	Sweden Portugal
Portugal Luxembourg	1.366	1.578	689	419	217		_			Luxemburg
Autres pays Importations totales	$\frac{216}{6.415}$	281	<u>126</u> 2.540	24	<u> </u>	<u>18</u> 2.634	<u>10</u> 6.512	9.095	24 8.887	Other count Total Imports
Exportations totales.	688	725	153	176	56	732	728	1.504	1.792	Total Exports
Déchets et ferraille. Importations totales	110	122	226	196	92	217	195	111	61	Scrap Iron. Total Imports.
Exportations totales	178	153	11	70	39	ĩŝi	45	102	108	Total Exports.
			•		2:B					
IMPORTATIONS DE FONTI	C, FER E	T ACIEF	R PÅR A	RTICLES			OF IF	ON AND	D STEE	L BY ARTICLES ANI
ET PAR PA								Count	RIES OF	Origin.
Articles :	1912	1913	1920	1921	1922	1922	1923	1924	1925	Articles :
Fonte brute	780	579	337	143	56	179	330	327	325	Pig iron Blooms, slabs and bille
etc	69 14	82	297 13	229 7	62 4	77 10	99 15	84 14	68 13	etc. Tinplates.
Articles en fonte de fer et	7	10	· 5	5.	1	5	5	4	13	
acier	27	2	16	16	4	5	6	6	15	Iron and steel casting Girders, joints, etc.
Rails	25	9 24	16 35	· 7 11	5 7	6 8	12 14	9 14	6 14	Rails Piates and sheets.
Tôles, barres, etc	42 73	49 68	54 37	59 13	18 2	17 6	20 21	35 41	27 34	Sheets, bars, etc. Wire rods and wire.
Tubes et tuyaux	. 17	22 19	9 27	7 25	4 8	8 13	11 15		. 11	Tubes and pipes. Forged etc. steel. Galvanised sheets.
Tôles galvanisées	1	· 1 10	1	· 1		1	1	_	—	Galvanised sheets.
Total.	25 1.079	888	<u>5</u> 852	<u>4</u> 527	174	339	<u>6</u> 555	<u> </u>	5	Unenumerated. Total.
Pays d'origine :			•							Countries of Origi
Royaume-Uni	143 143	158 109	175 350	42 302	30 62	62 191	$\frac{115}{315}$	117 242	85 293	United Kingdom. France.
Allemagne	533	419	58 175	56	23 53	78	82	149	105	Germany.
Luxembourg	237	182	3	. 3	1	2	2	4	9	Luxemburg. Netherlands.
Suède	2 5	3 9	3 82	2 6	· 1	1	5 1	6 4	· 5 5	Sweden. United States of Amer
Autres pays	11	2	6		3	4	35	47	36	Other countries.
Total.	1.079	888	852	527	174	339	555	569	538	Total.
					2 : C .					
EXPORTATIONS DE FONTI				TICLES	E	XPORTS	~			. BY ARTICLES AND
ET PAR PAY										ESTINATION.
Articles: Fonte brute	1912 14	1913 17	1920 50	1921 178	1922 56	1922 105	1923	1924	1925	Articles:
Loupes, planches, billettes,	14 108						81	130	97	Pig iron. Blooms, slabs and bille
etc. Fers-blancs	108	159 3	38 1	32 1	2	255	434	731	923	etc. Tinplates.
Articles en fonte de fer et acier.	23	27	18	21	6	17	24	29	28	Iron and steel castings,
Longuerines, etc	98 173	96 165	52 51	31 94	19 22	133 125	197 205	$\begin{array}{r} 261 \\ 226 \end{array}$	283 171	Girders, etc. Rails.
Tôles et plaques	195 632	196 649	418 139	98 361	33 109	109	200	258	269	Sheets and plates.
Tiges de fer	64	55	49	20	9	604 37	1.129 76	$1.201 \\ 89$	1030 113	Sheets, bars, etc. Wire rods.
Fil de fer barbelé	13	13	4 10	2 10	3	1 5	8 13	14 17	20 21	Barbed wire. Tubes and pipes.
Clous	48 132	44 139	37 63	20 56	6 20	13 51	68 96	75	94	Nails.
Tôles galvanisées	6 11	<u></u>	4 1	2	20	1	2	260	57 6	Forged, etc. steel. Galvanised sheets.
Total.	1.523	1.575	935	926	287	1.456	2.534	20 3.311	3.112	Unenumerated. Total.
				+			~	0.011	0.11%	1 UKK.

Annexe IV.

BELGIQUE (suite).

71

Annex IV.

BELGIUM (continued).

EXPORTS OF IRON AND STEEL BY ARTICLES AND BY

COUNTRIES OF DESTINATION.

EXPORTATIONS DE FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS DE DESTINATION.

Milliers de		Metric tons (000's omitted).								
Pays de destination :	1912	1913	1920	1921	1922 I-IV Belgique	1922 V-XII U.E.B.L.	1923	1924	1925	Gountries of Destination
Pays-Bas	113	108	102	49	12	54	179	113	129	Netherlands.
France	62	66	304	81	32	73	129	97	77	France.
Royaume-Uni	38õ	434	174	351	$\tilde{76}$	166	642	1.127	1.177	United Kingdom.
Italie	27	21	- 9	3	3	6	2	14	117	Italy.
Espagne	18	31	53	6Õ	9	5 Š	$6\tilde{2}$	57	26	Spain.
Allemagne	13	11	7	1	3	453	180	414	183	Germany.
Japon	92	57 -	5		15	26	163	141	124	Japan.
Indes Britanniques.	109	139	42	82	49	137	221	244	162	British India.
Egypte.	45	39	27	9	4	21	36	54	64	Egypt.
Union Sud-Africaine	30	45	10	7	5	8	17	28	25	South Africa.
Australie	45	43	4	28	2	1			_ 3	Australia.
Chine et Hong-Kong	31	54	12		8	19	104	139	57	China and Hong-Kong.
Brésil	116	99	16	54	.9	25	66	64	66	Brazil.
Argentine.	$ \begin{array}{r} 145 \\ 33 \end{array} $	$\frac{120}{20}$	28	28 2	28	108	160	154	139	Argentine.
Chili	33	20	1	2	1	9	29	27 63	30 134	Chile. United States of America.
	25Ĩ	288	140	171	29	291	543	516	134	Other countries.
Autres pays	11	200	140	171	29	231	1	59	.18	Unallocated.
TIVE GERONANCE			1		~				. 10	
Total	1.523	1.575	935	926	287	1.456	2.534	3.311	3.112	Total.

ESPAGNE

3 : A.

SPAIN

EXPORTATIONS DE MINERAI DE FER.

Milliers de tonn	es métriq	Metric tons (000's omitted).							
Exportations à:	1912	1913	1920	1921	1922	1923	1924	1925	Exports to:
Royaume-Uni Allemagne Belgique France Autres pays	$\substack{4.257\\480\\3.053\\60\\466\\153}$	Pas dispo- nible. Not avail- able.	$3.903 \\ 75 \\ 414 \\ 50 \\ 125 \\ 64$	874 163 605 37 142 4	1.677 1.329 	2.540 337 132 1 141 221	Pas dispo- dible. Not avail- able.	${ \begin{array}{r} 1.995 \\ 449 \\ 776 \\ 57 \\ 146 \\ 195 \end{array} }$	United Kingdom. Germany. Netherlands. Belgium. France. Other countries.
Total	8.649	8.907	4.631	1.825	3.052	3.371	3.827	3.618	Total.

4 : A.

ÉTATS-UNIS

COMMERCE EN MINERAI DE FER ET DÉCHETS DE FER.

Long tons (000's omitted). Milliers de tonnes de 1.016 kgs. 1912 1913 1920 1921 1922 1923 1924 1925 Minerai de fer. Iron Ore. Imports from: Spain. Sweden. Cuba. Chile. Other countries. Importations de: 215 750 693 635 Espagne . . . Suède 154 325 1.271 .70 64 890 6 71 117 47 144 318 285 1.145 228 275 1.499 143 123 318 382 149 Cuba Chili . 546 ~8 36 1114 260 254 353 149 Autres pays . . . 128 475 . Importations totales . . . 2.004 2.244 1.273 316 1.135 2.768 2.047 2.190 Total Imports. Exportations totales . . . 832 1.221 1.145 440 602 1.117 595 631 Total Exports. Iron Serap. Déchets de fer. Importations totales Total Imports. Total Exports. 100 83 41 103 $\frac{141}{219}$ 41 38 143 65 162 67 98 14 88 66 `

¹ Union économique belgo-luxembourgeoise,

1 Belgo-Luxemburg Economic Union.

C. E. I. 17

5

EXPORTS OF IRON ORE.

UNITED STATES

TRADE IN IRON ORE AND SCRAP IRON.

Annexe IV.

Articles : Fonte et ferro-alliages . .

Total . .

Total...

Fer en barres.... Fer de construction ...

Rails..... Toles et plaques Fars-blancs Lingots.....

Non spécifiés . .

4 : B.

1921

35

83

18

9

83

Annex IV.

ÉTATS-UNIS (suite).

IMPORTATIONS DE FONTE, FER ET ACIER PAR ARTICLES

ET PAR PAYS D'ORIGINE.

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. **UNITED STATES** (continued).

IMPORTS OF IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF ORIGIN.

Total. Countries of Origin:

Total.

France. Belgium.

Germany.

Ingots. Unenumerated.

Sweden. United Kingdom.

Canada. Other countries.

Unallocated.

Milliers de tonnes de 1.016 kgs.

1912

115

 $\frac{24}{3}$

3 3 14

 $\overline{2}\overline{2}$

187

7 15

37 114

10

187

1913

155

253

 $\frac{2}{25}$

253

1920

186

5 2

 $\begin{array}{r}
46\\2\\-5\\24\\\end{array}$

270

13

270

		000	MINIES	or onion.
		Lon	g tons (00	0's omitted).
1922	1923	1924	1925	
				Articles :
498	475	277	441	Pig iron and ferro-alloys.
8	8	4	12	Bar iron.
8	11	43	77	Structural iron.
27	30	43	37	Rails.
2	2	6	4	Sheets and plates.
3	ſÕ	1		Tinplates.
2	4 -	7	8	Wire rods.

8 27 157

763

763

39 79

499

79

499

4 23 14

580

82 82

ĩã

580

28

577

577

1

4 : C.

EXPORTATION DE FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS DE DESTINATION.

EXPORTS OF IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF DESTINATION.

ET PAR PAIS DE	DESTIN	ATION.					COUNT	MLS OF	DESTINATION,
×	1912	1913	1920	1921	1922	1923	1924	1925	
Articles :	1312	1919	1320	1521	1322	1320	1524	1323	Articles :
Fonte, ferro-manganèse et ferro-									Pig iron, ferro-manganese and
Fonte, ferro-manganese et ferro-	4.0.0	0.05	0.17	20			15		
silicium	186	287	217	28	33	37	45	38	ferro-silicon.
Tiges de fer	48	75	117	19	40	41	19	21	Wire rods.
Fer en harres	16	23	47	12)	187	174 {	5	5	Iron bars.
Barres, autres, et tiges d'acier .	146	231	629	188 }		{1}	101		→ All other bars and rods of steel.
Billettes et lingots.	234	231	217	10	14	7	5	4	Billets and ingots.
Feuillards, bandes ou rouleaux .	8	18	53	20	35	38	34	41	Hoops, band and scroll.
Clous en fils	63	55	93	28	55	46	22	10	Wire nails.
Boutons, écrous, rivets.		22	39	24	18	19	17	17	Bolts, nuts and rivets.
Clous, autres, y compris pointes .	13	$\tilde{4}$	12	5	5	Ĩ	26	26	All other nails, including tacks.
Tuyaux et raccords, en fonte . }	-		68	48	27	28	29	32	Pipes and fittings, cast.
Tuyaux et raccords, forgés }	232	282 {	285	345	179	194	212	240	Pipes and fittings, wrought.
Rails on agien	417	453	595		277	267	207		
Rails en acier.				322				152	Rails of steel.
Tôles galvanisées	186 (115	108	56	109	115	108	160	Galvanised sheets.
Tôles et plaques de fer		32	32	12 }	204	234	187	202 {	Iron sheets and plates.
Plaques en acier	279 }	263	921	336 🖌				•	Steel plates.
Tôles en acier, noires	- L	133	169	193	215	139	149	95 `	Steel black sheets.
Plaques pour navires et citernes	<u> </u>		43	10	3	3	8	12	Ship and tank plates.
Fer et acier de construction	252	367	494	297	168	199	177	181	Structural iron and steel.
Fers-blancs	81	73	226	108	77	124	161	161	Tinplates.
Fils de fer barbelé	103	88	130	30	71	71	87	67	Barbed wire.
Fils de fer, autres .	141	138	191	69	139	121	59	Š5	All other wire.
Clous et croches, coupés à la machine	12	5	4	Ĭ	4	2	2	ž	Cut nails and spikes.
Clous pour travaux de voie ferrée	<u> </u>	13	17	8	8	9	ĩ	ŝ	Railroad spikes.
Non spécifiés		13	2	3	63	70	43	33	Unenumerated.
							-	+	
Total	2.417	2.908	4.709	2.172	1.931	1.944	1.711	1.678	Total.
Total							-	+	Total.
Total	2.417	2.908	4.709	2.172	1.931	1.944	1.711	1.678	Total, Countries of Destination :
Total	2.417	2.908	4.709 27	2.172	1.931	1.944	1.711	1.678	Total, Countries of Destination : Germany.
Total Pays de destination : Atlemagne Belgique	2.417 6 22	2.908 6 23	4.709 27 85	2.172	1.931 1 4	1.944 2 8	1.711 1 10	1.678 1 5	Total. Countries of Destination: Germany. Belglum.
Total	2.417 2.417 22 1	2.908 23 3	4.709 27 · 85 78	2.172 3 8 . 55	1.931 1 4 4	1.944 2 8 7	1.711 10 3	1.678 1 5 9	Total. Countries of Destination: Germany. Belglum. France.
Total	2.417 6 22 1 10	2.908 6 23 3 23	4.709 27 85 78 119	2.172 3 8 55 50	1.931 1 4 4 3	1.944 2 8 7 3	1.711 10 3 5	1.678 1 5 9 10	Total. Countries of Destination: Germany. Belgium. France. Italy.
Total Pays de destination: Allemagne Belgique France Italie Royaume-Uni	2.417 6 22 1 10 238	2.908 6 23 3 23 23 270	4.709 27 85 78 119 459	2.172 3 8 55 50 113	1.931 1 4 4 3 60	1.944 2 8 7 3 63	1.711 10 3 5 55	1.678 1 5 9 10 51	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom.
Total	2.417 6 22 1 10 238 10	2.908 6 23 3 23	4.709 27 85 78 119 459 113	2.172 3 8 55 50	1.931 1 4 3 60 5	1.944 2 8 7 3 63 5	1.711 10 3 5	1.678 1 5 9 10	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands.
Total	2.417 6 22 1 10 238	2.908 6 23 3 23 23 270	4.709 27 85 78 119 459 113 49	2.172 3 8 55 50 113	1.931 4 4 3 60 5 3	1.944 2 8 7 3 63	1.711 10 3 5 55	1.678 1 5 9 10 51	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom.
Total Pays de destination : Allemagne Pays de destination : Belgique Pays de destination : France Pays de destination : Italie Pays de destination : Royaume-Uni Pays-Bas Suède Suède Espagne Pays-Bas	2.417 6 22 1 10 238 10 1 1	2.908 6 23 3 23 23 270 11	4.709 27 85 78 119 459 113	2.172 3 8 55 50 113 20	1.931 1 4 3 60 5 3 6	1.944 2 8 7 3 63 5	1.711 10 3 5 55 2	1.678 1 5 9 10 51 3	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands.
Total Pays de destination : Allemagne Belgique France Italie Royaume-Uni Pays-Bas Suède Suède Espagne Chine et Hong-Kong	2.417 6 22 1 10 238 10 1	2.908 6 23 3 23 23 270 11 3	4.709 27 85 78 119 459 113 49	2.172 3 55 50 113 20 9	1.931 4 4 3 60 5 3	1.944 2 8 7 3 63 5 3	1.711 10 3 5 55 2 1	1.678 1 5 9 10 51 3 1	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden.
Total Pays de destination : Allemagne Belgique France Italie Royaume-Uni Pays-Bas Suede Espagne Chine et Hong-Kong Japon et Kouang-Tommg	2.417 6 22 1 10 238 10 1 1	2.908 6 23 3 23 270 11 3 7	4.709 27 85 78 119 459 113 49 26	2.172 3 8 55 50 113 20 9 10	1.931 1 4 3 60 5 3 6	1.944 2 8 7 3 63 5 3 8 54	1.711 10 3 5 55 2 1 4	1.678 1 5 9 10 51 3 1 2 195	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong.
Total Pays de destination : Allemagne Selgique France France Italie France Royaume-Uni France Suède Suède Chine et Hong-Kong Japon et Kouang-Toung Japon et Kouang-Toung Indes britanniques	$ \begin{array}{r} \frac{6}{2.417} \\ \frac{6}{22} \\ 1 \\ 10 \\ $	2.908 6 23 3 23 270 11 3 7 38 151	4.709 27 85 78 119 459 113 49 26 209	2.172	$ \begin{array}{r} 1.931 \\ 4 \\ 4 \\ 3 \\ 60 \\ 5 \\ 3 \\ 6 \\ 98 \\ 588 \\ 588 \end{array} $	1.944 2 8 7 3 63 5 5 3 8 5 4 373	$ \begin{array}{r} 1.711 \\ 1 \\ 10 \\ 3 \\ 5 \\ 5 \\ 5 \\ 2 \\ 1 \\ 4 \\ 5 \\ 4 \\ 2 \\ 8 \\ \end{array} $	1.678 1 5 9 10 51 3 1 2 195 127	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Swedcn. Spain. China and Hong-Kong. Japan and Kwantung.
Total Pays de destination : Allemagne Selgique France France Italie France Royaume-Uni France Suède Suède Chine et Hong-Kong Japon et Kouang-Toung Japon et Kouang-Toung Indes britanniques	$\begin{array}{r} & & & & & \\ & & & & \\ & & & & & \\ & & & &$	2.908 6 23 3 23 270 11 3 7 38 151 29	4.709 27 85 78 119 459 113 49 26 209 932 136	2.172 3 8 55 50 113 20 9 10 97 386 105	1.931 4 3 60 5 3 6 98 588 37	1.944 2 8 7 3 63 5 3 8 54 373 24	1.711 1 10 3 55 55 2 1 4 54 288 24	1.678 1 5 9 10 51 3 1 2 195 127 27	Total. Countries of Destination: Germany. Belgium. France. Italy. United Kingdom. Netherlands. Sweden. Syain. China and Hong-Kong. Japan and Kwantung. British India.
Total Pays de destination : Allemagne Allemagne France France Italie Royaume-Uni Pays-Bas Suède Espagne Chine et Hong-Kong Japon et Kovang-Toung Indes britanniques Stablissements des détroits	$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $	2.908 6 23 3 23 270 11 3 7 38 151 29 7	4.709 27 85 78 119 459 113 49 26 209 932 136 14	2.172 3 8 55 50 113 20 9 10 97 386 105 105	1.931 4 4 3 60 5 3 6 98 588 588 37 4	1.944 2 8 7 3 63 5 3 8 54 373 24 3	1.711 1 10 3 55 2 1 4 54 288 24 2	1.678 1 5 9 10 51 3 1 2 195 127 1	Total. Countries of Destination: Germany. Belgium. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements.
Total Pays de destination : Allemagne Belgique France Italie Royaume-Uni Pays-Bas Suede Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Etablissements des détroits	$ \begin{array}{r} $	2.908 6 23 23 23 270 11 3 7 38 151 29 7 84	4.709 27 85 78 119 459 113 49 26 209 932 136 14 219	2.172 3 8 55 50 113 20 9 10 97 386 105 10 76	1.931 1 4 3 60 5 3 6 98 588 37 4 80	$ \begin{array}{r} 1.944 \\ 2 \\ 8 \\ 7 \\ 3 \\ 63 \\ 5 \\ 5 \\ 5 \\ 54 \\ 373 \\ 24 \\ 354 \\ 54 \end{array} $	$ \begin{array}{r} 1.711 \\ 1 \\ 10 \\ 3 \\ 55 \\ 2 \\ 1 \\ 54 \\ 288 \\ 24 \\ 25 \\ 55 \end{array} $	1.678 1 5 9 10 51 3 1 2 195 127 27 27 4 88	Total. Countries of Destination: Germany. Belgium. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine.
Total Pays de destination : Allemagne Statum France Italie France Italie Pays-Bas Suède Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Ktablissements des détroits Argentine	2.417 6 22 1 10 238 10 238 10 1 28 174 38 3 115 94	2.908 6 23 3 23 270 11 3 7 38 151 29 7 84 101	4.709 27 85 78 119 459 113 49 209 932 136 14 219 180	2.172 3 8 55 50 113 20 9 10 97 386 105 105 105 105 105 105 105 105	$ \begin{array}{r} 1.931 \\ 1 \\ 4 \\ 4 \\ 3 \\ 60 \\ 5 \\ 5 \\ 88 \\ 588 \\ 588 \\ 37 \\ 4 \\ 80 \\ 84 \end{array} $	1.944 2 8 7 3 63 5 5 3 8 54 373 24 3 3 54 84	$ \begin{array}{r} 1.711 \\ 1 \\ 10 \\ 3 \\ 55 \\ 2 \\ 1 \\ 4 \\ 54 \\ 288 \\ 24 \\ 2 \\ 55 \\ 108 \\ \end{array} $	1.678 1 5 9 10 51 3 1 2 195 127 27 4 88 96	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico.
Total Pays de destination : Allemagne Belgique France Italie Royaume-Uni Pays-Bas Suède Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Stablissements des détroits. Argentine Mexique	$\begin{array}{r} & & & & & \\$	2.908 6 23 3 23 270 11 3 7 38 15t 29 7 84 10t 72	4.709 27 85 78 119 459 113 459 113 459 209 932 209 932 136 14 219 186	2.172 3 8 55 50 113 20 9 10 97 386 105 10 76 197 57	1.931 1 4 3 60 5 5 88 37 4 80 84 57	1.944 2 8 7 3 63 5 5 3 8 54 373 24 3 54 373 24 3 54 51	$ \begin{array}{r} 1.711 \\ 1 \\ 10 \\ 3 \\ 55 \\ 2 \\ 1 \\ 4 \\ 288 \\ 24 \\ 2 \\ 55 \\ 108 \\ 68 \\ \end{array} $	$ \begin{array}{r} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 1 \\ 2 \\ 195 \\ 127 \\ 27 \\ 127 \\ 488 \\ 96 \\ 46 \end{array} $	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil.
Total Pays de destination : Allemagne Belgique France Italie France Italie Sucie Espagne Chine et Hong-Kong Japon et Kouag-Toung Indes britanniques Stablissements des détroits Arzentine Mexique Brésil	$\begin{array}{r} \hline 2.417 \\ \hline 2.417 \\ \hline 2.417 \\ \hline 10 \\ 2.38 \\ 10 \\ 11 \\ 2.38 \\ 174 \\ 3.3 \\ 174 \\ 3.3 \\ 115 \\ 94 \\ 74 \\ 96 \\ \end{array}$	2.908 6 23 23 270 11 3 7 38 151 29 7 84 101 72 61	4.709 27 85 78 119 459 113 49 20 209 209 932 136 14 219 180 186 46	2.172 3 8 55 50 113 20 9 10 97 386 105 10 76 197 38	$ \begin{array}{c} 1.931 \\ 1 \\ 4 \\ 3 \\ 60 \\ 5 \\ 5 \\ 8 \\ 98 \\ 588 \\ 37 \\ 4 \\ 80 \\ 84 \\ 57 \\ 30 \\ \end{array} $	1.944 2 8 7 3 63 5 5 3 3 5 4 373 24 373 24 84 51 33	$\begin{array}{c} 1.711\\ 1\\ 10\\ 5\\ 555\\ 2\\ 1\\ 4\\ 54\\ 288\\ 24\\ 2\\ 55\\ 108\\ 68\\ 31\end{array}$	$ \begin{array}{r} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 1 \\ 2 \\ 195 \\ 127 \\ 27 \\ 27 \\ 488 \\ 96 \\ 46 \\ 44 \end{array} $	Total. Countries of Destination: Germany. Belgium. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile.
Total Pays de destination : Allemagne Statum France Italie France Italie Pays-Bas Suède Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Ktablissements des détroits Argentine Brésil Chini	$\begin{array}{r} \hline 2.417 \\ \hline 2.417 \\ \hline 22 \\ 1 \\ 10 \\ 238 \\ 10 \\ 1 \\ 1 \\ 28 \\ 174 \\ 38 \\ 174 \\ 38 \\ 115 \\ 94 \\ 74 \\ 96 \\ 114 \\ \end{array}$	2.908 6 23 3 23 270 11 3 7 38 151 29 7 84 101 72 61 110	$\begin{array}{r} 4.709\\ 2.7\\ 8.7\\ 7.8\\ 119\\ 459\\ 113\\ 49\\ 26\\ 209\\ 932\\ 136\\ 14\\ 219\\ 180\\ 186\\ 46\\ 228\\ \end{array}$	2.172 3 8 55 50 113 20 97 386 105 105 105 105 105 105 105 105	$\begin{array}{c} 1.931 \\ 1 \\ 4 \\ 3 \\ 60 \\ 5 \\ 3 \\ 6 \\ 98 \\ 588 \\ 37 \\ 4 \\ 80 \\ 84 \\ 57 \\ 30 \\ 90 \end{array}$	1.944 2 8 7 3 63 5 3 8 54 373 24 3 5 4 84 51 33 3 173	$\begin{array}{r} 1.711\\ 1\\ 10\\ 3\\ 55\\ 5\\ 2\\ 1\\ 4\\ 54\\ 288\\ 24\\ 54\\ 288\\ 24\\ 55\\ 108\\ 108\\ 68\\ 31\\ 165\end{array}$	$ \begin{array}{r} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 1 \\ 2 \\ 195 \\ 127 \\ 27 \\ 4 \\ 88 \\ 96 \\ 46 \\ 44 \\ 144 \end{array} $	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazll. Chile. Cuba.
Total Pays de destination : Allemagne Suide France Italie France Italie Royaume-Uni Pays-Bas Suide Suide Chine et Hong-Kong Indes britanniques Stablissements des détroits Argentine Mexique Brésil Cuba Canada	$\begin{array}{r} \hline 2.417 \\ \hline 2.417 \\ \hline 2.2 \\ 1 \\ 10 \\ 2.38 \\ 10 \\ 1 \\ 1 \\ 1 \\ 28 \\ 174 \\ 38 \\ 174 \\ 38 \\ 115 \\ 974 \\ 96 \\ 114 \\ 989 \\ \end{array}$	$\begin{array}{r} 2.908 \\ 6 \\ 23 \\ 3 \\ 23 \\ 270 \\ 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 7 \\ 84 \\ 101 \\ 72 \\ 61 \\ 140 \\ 1.431 \end{array}$	4.709 27 85 78 119 459 26 209 932 136 209 932 136 209 932 136 6 93 24 6 93 26 93 26 93 26 93 26 14 21 9 14 26 93 20 93 26 26 26 26 26 26 26 26 26 26 26 26 26	$\begin{array}{c} 2.172 \\ 3 \\ 8 \\ 55 \\ 50 \\ 113 \\ 20 \\ 9 \\ 10 \\ 97 \\ 386 \\ 105 \\ 10 \\ 76 \\ 197 \\ 57 \\ 38 \\ 95 \\ 399 \end{array}$	1.931 1 4 3 60 98 588 37 4 80 84 80 84 57 30 90 516	1.944 2 8 7 3 63 5 5 3 8 54 373 24 3 54 373 54 51 33 173 715	$\begin{array}{c} 1.711\\ 1\\ 10\\ 3\\ 5\\ 5\\ 2\\ 1\\ 4\\ 5\\ 4\\ 5\\ 4\\ 5\\ 4\\ 2\\ 8\\ 8\\ 2\\ 4\\ 5\\ 5\\ 108\\ 68\\ 31\\ 165\\ 500 \end{array}$	$\begin{array}{c} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 1 \\ 2 \\ 195 \\ 127 \\ 27 \\ 127 \\ 27 \\ 188 \\ 96 \\ 46 \\ 44 \\ 144 \\ 589 \end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada.
Total Pays de destination : Allemagne Belgique France Italie Royaume-Uni Pays-Bas Suede Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Ktablissements des détroits Arzentine Mexique Brésil Cuba Cuba Union Sud-Africaine	$\begin{array}{r} \hline 2.417 \\ \hline 2.417 \\ \hline 2.417 \\ \hline 10 \\ 2.38 \\ 10 \\ 11 \\ 12 \\ 174 \\ 38 \\ 174 \\ 38 \\ 174 \\ 38 \\ 115 \\ 94 \\ 74 \\ 96 \\ 114 \\ 989 \\ 36 \\ \end{array}$	$\begin{array}{r} 2.908 \\ & 6 \\ 23 \\ 23 \\ 270 \\ & 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 61 \\ 101 \\ 72 \\ 61 \\ 1401 \\ 32 \end{array}$	4.709 27 85 78 119 459 209 209 209 932 136 136 209 932 136 180 180 46 228 693 46	$\begin{array}{c} 2.172 \\ 3 \\ 8 \\ 55 \\ 50 \\ 113 \\ 20 \\ 97 \\ 100 \\ 97 \\ 386 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 76 \\ 197 \\ 57 \\ 38 \\ 95 \\ 399 \\ 7 \end{array}$	$ \begin{array}{c} 1.931 \\ 1 \\ 4 \\ 3 \\ 60 \\ 5 \\ 5 \\ 8 \\ 98 \\ 588 \\ 37 \\ 4 \\ 80 \\ 84 \\ 80 \\ 84 \\ 57 \\ 30 \\ 90 \\ 516 \\ 10 \\ \end{array} $	1.944 2 8 7 3 63 5 5 3 3 3 5 4 3 7 3 5 4 8 4 5 1 3 3 7 15 12	$\begin{array}{c} 1.711\\ 1\\ 10\\ 3\\ 5\\ 555\\ 2\\ 1\\ 4\\ 4\\ 54\\ 288\\ 24\\ 2\\ 55\\ 108\\ 68\\ 31\\ 165\\ 500\\ 31 \end{array}$	$\begin{array}{c} 1.678\\ 1\\ 5\\ 9\\ 10\\ 51\\ 3\\ 1\\ 9\\ 195\\ 127\\ 27\\ 4\\ 88\\ 96\\ 46\\ 44\\ 144\\ 589\\ 24 \end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada. Union of South Africa.
Total Pays de destination : Allemagne Belgique France Italie France Italie Pays-Bas Suède Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Stablissements des détroits Argentine Brésil Chili Canada Union Sud-Africaine	$\begin{array}{c} 2.417 \\ \hline 2.417 \\ 10 \\ 238 \\ 10 \\ 11 \\ 10 \\ 11 \\ 28 \\ 174 \\ 38 \\ 115 \\ 39 \\ 115 \\ 94 \\ 96 \\ 36 \\ 92 \\ 92 \\ \end{array}$	$\begin{array}{r} 2.908 \\ 6 \\ 23 \\ 3 \\ 23 \\ 270 \\ 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 7 \\ 84 \\ 101 \\ 72 \\ 61 \\ 110 \\ 1.431 \\ 32 \\ 152 \end{array}$	$\begin{array}{r} 4.709\\ 2.7\\ 8.7\\ 7.8\\ 119\\ 459\\ 113\\ 49\\ 26\\ 209\\ 932\\ 136\\ 209\\ 932\\ 136\\ 14\\ 219\\ 1486\\ 186\\ 46\\ 693\\ 46\end{array}$	2.172 3 8 55 50 113 20 97 386 105 105 105 105 105 105 105 105	$\begin{array}{c} 1.931 \\ 1 \\ 4 \\ 4 \\ 3 \\ 60 \\ 5 \\ 3 \\ 6 \\ 98 \\ 588 \\ 37 \\ 4 \\ 80 \\ 84 \\ 84 \\ 84 \\ 857 \\ 30 \\ 90 \\ 516 \\ 10 \\ 43 \end{array}$	$\begin{array}{c} 1.944\\ 2\\ 8\\ 7\\ 3\\ 63\\ 5\\ 3\\ 5\\ 4\\ 373\\ 2\\ 4\\ 8\\ 51\\ 33\\ 5\\ 5\\ 4\\ 8\\ 51\\ 33\\ 173\\ 715\\ 12\\ 41 \end{array}$	$\begin{array}{c} 1.711\\ 1\\ 1\\ 0\\ 3\\ 5\\ 5\\ 5\\ 2\\ 1\\ 4\\ 5\\ 4\\ 5\\ 4\\ 2\\ 8\\ 8\\ 2\\ 4\\ 2\\ 5\\ 5\\ 108\\ 68\\ 3\\ 1\\ 68\\ 3\\ 1\\ 68\\ 5\\ 000\\ 3\\ 1\\ 23\end{array}$	$\begin{array}{c} 1.678\\ 1\\ 5\\ 9\\ 10\\ 51\\ 3\\ 1\\ 2\\ 195\\ 127\\ 27\\ 1\\ 88\\ 96\\ 46\\ 44\\ 144\\ 589\\ 24\\ 22\end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada. Union of South Africa. Australia.
Total Pays de destination : Allemagne Belgique France France Italie France Italie Royaume-Uni Pays-Bas Suède Suède Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Establissements des détroits Argentine Mexique Brésil Cuba Canada Union Sud-Africaine Australie Nouvelle-Zélande	$\begin{array}{r} \hline 2.417 \\ \hline 2.417 \\ \hline 22 \\ 1 \\ 10 \\ 238 \\ 10 \\ 11 \\ 1 \\ 28 \\ 174 \\ 38 \\ 174 \\ 38 \\ 174 \\ 38 \\ 115 \\ 94 \\ 114 \\ 96 \\ 114 \\ 96 \\ 114 \\ 96 \\ 114 \\ 989 \\ 989 \\ 989 \\ 989 \\ 36 \\ 92 \\ 14 \\ \end{array}$	$\begin{array}{r} 2.908 \\ 6 \\ 23 \\ 3 \\ 23 \\ 270 \\ 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 7 \\ 84 \\ 101 \\ 72 \\ 61 \\ 1401 \\ 1431 \\ 32 \\ 152 \\ 12 \end{array}$	$\begin{array}{r} 4.709\\ 2.7\\ 8.5\\ 78\\ 119\\ 459\\ 26\\ 9.32\\ 136\\ 209\\ 932\\ 136\\ 209\\ 932\\ 14\\ 219\\ 186\\ 186\\ 46\\ 228\\ 693\\ 46\\ 693\\ 46\\ 644\\ 14\end{array}$	$\begin{array}{c} 2.172 \\ 3 \\ 8 \\ 55 \\ 50 \\ 113 \\ 20 \\ 9 \\ 10 \\ 97 \\ 386 \\ 105 \\ 10 \\ 76 \\ 197 \\ 57 \\ 38 \\ 95 \\ 399 \\ 72 \\ 11 \end{array}$	1.931 1 4 3 60 98 588 37 4 80 84 57 30 90 516 10 43 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5	1.944 2 8 7 3 63 5 5 3 8 54 373 24 3 3 54 373 54 51 33 173 715 12 41 41	1.711 1 1 3 5 5 5 5 2 1 4 54 288 24 55 108 68 31 165 500 31 23 3	$\begin{array}{c} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 1 \\ 2 \\ 195 \\ 127 \\ 27 \\ 1 \\ 88 \\ 96 \\ 46 \\ 44 \\ 1589 \\ 24 \\ 22 \\ 2 \\ 2 \end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada. Union of South Africa. Australia. New Zealand.
Total Pays de destination : Allemagne Allemagne France Italie France Italie Royaume-Uni Pays-Bas Suède Suède Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Stablissements des détroits Argentine Mexique Brésil Cuba Canada Union Sud-Africaine Australie Nouvelle-Zélande	$\begin{array}{r} 2.417\\ & 6\\ 22\\ 1\\ 10\\ 238\\ 10\\ 1\\ 1\\ 28\\ 174\\ 38\\ 38\\ 15\\ 94\\ 74\\ 989\\ 94\\ 746\\ 989\\ 114\\ 989\\ 36\\ 35\\ \end{array}$	$\begin{array}{r} 2.908 \\ 6 \\ 23 \\ 3 \\ 23 \\ 270 \\ 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 7 \\ 84 \\ 101 \\ 72 \\ 61 \\ 110 \\ 1.431 \\ 32 \\ 152 \\ 12 \\ 37 \end{array}$	$\begin{array}{r} 4.709\\ 2.7\\ 8.7\\ 7.8\\ 119\\ 459\\ 113\\ 49\\ 26\\ 209\\ 932\\ 136\\ 149\\ 209\\ 932\\ 136\\ 146\\ 228\\ 693\\ 46\\ 693\\ 46\\ 64\\ 14\\ 66\end{array}$	$\begin{array}{c} 2.172 \\ 3 \\ 8 \\ 55 \\ 50 \\ 113 \\ 20 \\ 97 \\ 10 \\ 97 \\ 386 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 386 \\ 95 \\ 399 \\ 772 \\ 11 \\ 36 \end{array}$	$\begin{array}{c} 1.931 \\ 1 \\ 4 \\ 3 \\ 60 \\ 5 \\ 3 \\ 6 \\ 98 \\ 588 \\ 80 \\ 837 \\ 4 \\ 80 \\ 84 \\ 577 \\ 30 \\ 90 \\ 516 \\ 84 \\ 577 \\ 30 \\ 90 \\ 516 \\ 10 \\ 43 \\ 5 \\ 45 \end{array}$	$\begin{array}{c} 1.944\\ 2\\ 8\\ 7\\ 3\\ 63\\ 5\\ 3\\ 54\\ 3\\ 73\\ 24\\ 3\\ 54\\ 84\\ 51\\ 33\\ 173\\ 715\\ 12\\ 41\\ 35\end{array}$	1.711 1 1 3 5 5 5 5 2 1 4 5 5 5 2 1 4 5 5 5 5 2 1 4 5 5 5 5 5 5 5 5 5 5 5 5 5	$\begin{array}{c} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 195 \\ 127 \\ 27 \\ 4 \\ 88 \\ 96 \\ 44 \\ 144 \\ 589 \\ 24 \\ 22 \\ 2 \\ 2 \\ 48 \end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada. Union of South Africa. Australia.
Total Pays de destination : Allemagne Belgique France France Italie France Italie Pays-Bas Suède Espagne Chine et Hong-Kong Japon et Kovang-Toung Japon et Kovang-Toung Indes britanniques Etablissements des détroits Argentine Mexique Brésil Canada Union Sud-Africaine Nouvelle-Zélande Philippines	$\begin{array}{r} \hline 2.417 \\ \hline 2.417 \\ \hline 22 \\ 1 \\ 10 \\ 238 \\ 10 \\ 1 \\ 1 \\ 28 \\ 174 \\ 38 \\ 3 \\ 115 \\ 39 \\ 94 \\ 94 \\ 94 \\ 989 \\ 36 \\ 992 \\ 14 \\ 35 \\ 226 \\ \end{array}$	$\begin{array}{r} 2.908 \\ 6 \\ 23 \\ 3 \\ 23 \\ 270 \\ 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 7 \\ 84 \\ 101 \\ 72 \\ 61 \\ 1401 \\ 1431 \\ 32 \\ 152 \\ 12 \end{array}$	$\begin{array}{r} 4.709\\ 2.7\\ 8.8\\ 7.8\\ 119\\ 459\\ 113\\ 49\\ 209\\ 932\\ 136\\ 209\\ 932\\ 136\\ 14\\ 219\\ 180\\ 186\\ 46\\ 693\\ 46\\ 64\\ 14\\ 66\\ 64\\ 14\\ 66\end{array}$	$\begin{array}{c} 2.172 \\ 3 \\ 8 \\ 55 \\ 50 \\ 113 \\ 20 \\ 9 \\ 10 \\ 97 \\ 386 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 76 \\ 397 \\ 57 \\ 38 \\ 95 \\ 399 \\ 7 \\ 72 \\ 11 \\ 36 \\ 315 \end{array}$	$\begin{array}{c} 1.931 \\ 1 \\ 4 \\ 4 \\ 3 \\ 60 \\ 5 \\ 3 \\ 6 \\ 98 \\ 588 \\ 37 \\ 4 \\ 80 \\ 84 \\ 84 \\ 84 \\ 84 \\ 85 \\ 7 \\ 30 \\ 90 \\ 516 \\ 10 \\ 43 \\ 5 \\ 45 \\ 95 \end{array}$	$\begin{array}{c} 1.944\\ & 2\\ & 8\\ & 7\\ & 3\\ & 63\\ & 5\\ & 373\\ & 24\\ & 373\\ & 24\\ & 51\\ & 33\\ & 54\\ & 51\\ & 33\\ & 173\\ & 715\\ & 12\\ & 41\\ & 41\\ & 35\\ & 119\end{array}$	1.711 1 1 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	$\begin{array}{c} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 1 \\ 2 \\ 195 \\ 127 \\ 27 \\ 1 \\ 88 \\ 96 \\ 46 \\ 44 \\ 1589 \\ 24 \\ 22 \\ 2 \\ 2 \end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada. Union of South Africa. Australia. New Zealand.
Total Pays de destination : Allemagne Allemagne France Italie France Italie Royaume-Uni Pays-Bas Suède Suède Espagne Chine et Hong-Kong Japon et Kouang-Toung Indes britanniques Stablissements des détroits Argentine Mexique Brésil Cuba Canada Union Sud-Africaine Australie Nouvelle-Zélande	$\begin{array}{r} 2.417\\ & 6\\ 22\\ 1\\ 10\\ 238\\ 10\\ 1\\ 1\\ 28\\ 174\\ 38\\ 38\\ 15\\ 94\\ 74\\ 989\\ 94\\ 746\\ 989\\ 114\\ 989\\ 36\\ 35\\ \end{array}$	$\begin{array}{r} 2.908 \\ 6 \\ 23 \\ 3 \\ 23 \\ 270 \\ 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 7 \\ 84 \\ 101 \\ 72 \\ 61 \\ 110 \\ 1.431 \\ 32 \\ 152 \\ 12 \\ 37 \end{array}$	$\begin{array}{r} 4.709\\ 2.7\\ 8.7\\ 7.8\\ 119\\ 459\\ 113\\ 49\\ 26\\ 209\\ 932\\ 136\\ 149\\ 209\\ 932\\ 136\\ 146\\ 228\\ 693\\ 46\\ 693\\ 46\\ 64\\ 14\\ 66\end{array}$	$\begin{array}{c} 2.172 \\ 3 \\ 8 \\ 55 \\ 50 \\ 113 \\ 20 \\ 97 \\ 10 \\ 97 \\ 386 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 386 \\ 95 \\ 399 \\ 75 \\ 389 \\ 95 \\ 399 \\ 72 \\ 11 \\ 36 \end{array}$	$\begin{array}{c} 1.931 \\ 1 \\ 4 \\ 3 \\ 60 \\ 5 \\ 3 \\ 6 \\ 98 \\ 588 \\ 80 \\ 837 \\ 4 \\ 80 \\ 84 \\ 577 \\ 30 \\ 90 \\ 516 \\ 84 \\ 577 \\ 30 \\ 90 \\ 516 \\ 10 \\ 43 \\ 5 \\ 45 \end{array}$	$\begin{array}{c} 1.944\\ 2\\ 8\\ 7\\ 3\\ 63\\ 5\\ 3\\ 54\\ 3\\ 73\\ 24\\ 3\\ 54\\ 84\\ 51\\ 33\\ 173\\ 715\\ 12\\ 41\\ 35\end{array}$	1.711 1 1 3 5 5 5 5 2 1 4 5 5 5 2 1 4 5 5 5 5 2 1 4 5 5 5 5 5 5 5 5 5 5 5 5 5	$\begin{array}{c} 1.678 \\ 1 \\ 5 \\ 9 \\ 10 \\ 51 \\ 3 \\ 195 \\ 127 \\ 27 \\ 4 \\ 88 \\ 96 \\ 44 \\ 144 \\ 589 \\ 24 \\ 22 \\ 2 \\ 2 \\ 48 \end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada. Union of South Africa. Australia. New Zealand. Philippines. Other countries.
Total Pays de destination : Allemagne Belgique France France Italie France Italie Pays-Bas Suède Espagne Chine et Hong-Kong Japon et Kovang-Toung Japon et Kovang-Toung Indes britanniques Etablissements des détroits Argentine Mexique Brésil Canada Union Sud-Africaine Nouvelle-Zélande Philippines	$\begin{array}{r} \hline 2.417 \\ \hline 2.417 \\ \hline 22 \\ 1 \\ 10 \\ 238 \\ 10 \\ 1 \\ 1 \\ 28 \\ 174 \\ 38 \\ 3 \\ 115 \\ 39 \\ 94 \\ 94 \\ 94 \\ 989 \\ 36 \\ 992 \\ 14 \\ 35 \\ 226 \\ \end{array}$	$\begin{array}{r} 2.908 \\ 6 \\ 23 \\ 3 \\ 23 \\ 270 \\ 11 \\ 3 \\ 7 \\ 38 \\ 151 \\ 29 \\ 7 \\ 84 \\ 101 \\ 72 \\ 61 \\ 110 \\ 1.431 \\ 32 \\ 152 \\ 152 \\ 12 \\ 37 \\ 245 \end{array}$	$\begin{array}{r} 4.709\\ 2.7\\ 8.8\\ 7.8\\ 119\\ 459\\ 113\\ 49\\ 209\\ 932\\ 136\\ 209\\ 932\\ 136\\ 14\\ 219\\ 180\\ 186\\ 46\\ 693\\ 46\\ 64\\ 14\\ 66\\ 64\\ 14\\ 66\end{array}$	$\begin{array}{c} 2.172 \\ 3 \\ 8 \\ 55 \\ 50 \\ 113 \\ 20 \\ 9 \\ 10 \\ 97 \\ 386 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 76 \\ 397 \\ 57 \\ 38 \\ 95 \\ 399 \\ 7 \\ 72 \\ 11 \\ 36 \\ 315 \end{array}$	$\begin{array}{c} 1.931 \\ 1 \\ 4 \\ 4 \\ 3 \\ 60 \\ 5 \\ 3 \\ 6 \\ 98 \\ 588 \\ 37 \\ 4 \\ 80 \\ 84 \\ 84 \\ 84 \\ 84 \\ 85 \\ 7 \\ 30 \\ 90 \\ 516 \\ 10 \\ 43 \\ 5 \\ 45 \\ 95 \end{array}$	$\begin{array}{c} 1.944\\ & 2\\ & 8\\ & 7\\ & 3\\ & 63\\ & 5\\ & 373\\ & 24\\ & 373\\ & 24\\ & 51\\ & 33\\ & 54\\ & 51\\ & 33\\ & 173\\ & 715\\ & 12\\ & 41\\ & 41\\ & 35\\ & 119\end{array}$	1.711 1 1 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	$\begin{array}{c} 1.678\\ 1\\5\\9\\10\\51\\3\\1\\2\\195\\127\\27\\188\\96\\46\\44\\144\\589\\24\\22\\2\\48\\110\end{array}$	Total. Countries of Destination: Germany. Belglum. France. Italy. United Kingdom. Netherlands. Sweden. Spain. China and Hong-Kong. Japan and Kwantung. British India. Straits Settlements. Argentine. Mexico. Brazil. Chile. Cuba. Canada. Union of South Africa. Australia. New Zealand. Phillppines.

5 : A.

FRANCE

COMMERCE EN MINERAI DE FER ET DÉCHETS DE FER. Milliers de tones métriques.

TRADE IN IRON ORE AND IRON SCRAP. Metric tons (000's omitted).

FRANCE

		-						
Minerai de fer.	1913	1920	1921	1922	1923	1924	1925 1 Ir	on Ore.
Importations de: Allemagne	807	_)				Imports from : Germany.
Belgique Luxembourg	21 2	7 183	233	10 229	. 149	330	719	Belgium. Luxemburg.
Espagne	458 3	153 · 10	114 12	14 80	141 87	195 67	201 68	Spain. Algeria.
Tunisie	8 124	39 13	14 79	5 37	97 60	94 39	95 155	Tunis. Other countries.
Importations totales	1,410	405	457	375	534	725	1,238	Total Imports.
Exportations à :								Exports to:
Allemagne	4,066	1,146	1,390	1,996	167	1,199	745	Germany.
Belgique Luxembourg	5,036	1,583 738	$1,141 \\ 1,089$	2,401) 1,928 }	6,453	7,744	7,454	Belgium. Luxemburg.
Royaume-Uni	424	256	103	244	441	579	230	United Kingdom.
Sarre	1	1,079	1,484	2,680	2,736	2,509	1	Saar.
Pays-Bas	529	29	83	213	45	240	608	Netherlands.
Autres pays	12	9	9	10	12	16	190	Other countries.
Exportations totales	10,067	4,840	5,299	9,472	9,854	12,287	9,227 1	Total Exports.
Déchets de fer.							Sc	rap Iron.
Importations totales	24	48	82	150	189	212	65	Total imports.
Exportations à:								Exports to:
Allemagne	33	46	159	342	56	165	529	Germany.
Belgique	97	172	190	430	226	244	188	Belgium.
_ Italie	59	54	37	138	256	325	470	Italy.
Sarre.	1 37	38 154	56 182	$ 163 \\ 289 $	182 95	108 132	1 119	Saar. Other countries.
Autres pays								
Exportations totales	226	464	624	1,362	815	974	1,306	Total Exports.

5 : B.

COMMERCE EN FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS D'ORIGINE ET DE DESTINATION.

TRADE IN IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF ORIGIN AND DESTINATION.

Articles :								Articles :
Importations:	1913 -	1920	1921	1922	1923	1924	19251	Imports:
Fonte brute et ferro-alliages	50	121	42	62	70	56	51	Pig-iron and ferro-alloys.
Lingots.		1		1.	6	8		Ingots.
Loupes, billettes	19	429	172	305	254	261	28	Blooms, billets.
Acier pour outils et acier)		9	5	5	8	11	8	Tool and special steel.
special	11							-
Tiges de fer		28	12	32	42	39	6	Wire rods.
Feuillards et bandes	4	47	19	42	52	51	6	Hoops and strips.
Plaques et tôles	19	207	126	140	109	115	31	Plates and sheets.
Larges - plats (bandes lami-								
nées à chaud)		19	tί	23	18	30	1	Steel-flats.
Tôles galvanisées et fer blanc.	19	76	13	47	53	49	15	Galvanised sheets and tinplates.
Fil de fer	6	13	ĨŠ	15	11	12	4	Wire.
Raile	õ	27	16	49	39	- 8	Ĩ	Rails.
Rails Autres matériels de chemin	~	~ 1	10	45	00	0	•	Other railway and tramway
	,	4	3	1	+	2		inaterial.
de fer et tramway	1	.1	3		•	~		mattrian
Essieux pour chemins de fer	5	5	9	4	1	1		Railway and other axles.
et autres	0	5	ĩ			, ,		Anchors, cables and chains.
Ancres, câbles et chaînes	2	26	1	27	ĩ			Nails and screws.
Clous et vis	3			24	30	28	9	Tubes and pipes.
Tubes et tuyaux	8	51	22		13		5	Unenumerated.
Non spécifiés	23	40	42	13	13	16	5	Unenumeratea.
Total	172	1.108	504	772	713	695	165	Total.

La Sarre est comprise dans le territoire douanier français à partir du 5 janvier 1925.
 ² Compris dans l'Allemagne.
 ³ Compris dans « autres pays ».

Saar is included in French Customs territory from January 5th, 1925.
 Included in Germany.
 Included in " other countries ".

Annexe IV.

5 : B.

FRANCE (continued)

COMMERCE EN FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS D'ORIGINE ET DE DESTINATION.

TRADE' IN IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF ORIGIN AND DESTINATION.

ET PAR PAIS D'ORIGI		DESIIN	Allon.		door	i i i i i i i i i i i i i i i i i i i	o o la oligita	A AND DESIGNATION.		
Milliers de te	onnes métriqu	ies			Metric tons (000's omitted)					
Importations:	1913	1920	1921	1922	1923	1924	1925 1	Imports:		
Pays d'origine : Grande-Bretagne Allemagne Sarre Belgique	$ \begin{array}{r} 50 \\ 39 \\ 15 \\ \hline \end{array} $	233 30 143 300 132	- 42 29 202 78 35	$egin{array}{c} 127 \\ 4 \\ 358 \\ 62 \\ 20 \end{array}$	123 113 341 86	97 69 438 58	60 14 1 38	Countries of Origin: Great Britain. Germany. Saar. { Belgium. Luxemburg.		
Etats-Unis	43 23	176 54 40	58 18 42	143 45 15	6 31 13	. 1 16 16	47 5	United States of America. Other countries. Unallocated.		
Importations totales	172	1.108	.504	772	713	695	165	Total Imports.		
Exportations:								Exports:		
Articles: Fonte brute et ferro-alliages. Lingots.	113 7	296 25	671 5	730 3	614 16	784 8	710 17	Articles : Pig iron and ferro-alloys. Ingots.		
Loupes, billettes	.314	344	606 61	811	913 3	1.311 1	2.079 1	Blooms, billets. Tool and special steel.		
Tiges en fer	$\left\{ \begin{array}{c} 2 \\ 3 \\ 9 \\ -2 \end{array} \right\}$	$\frac{1}{\frac{4}{18}}$	16 21 1 3	33 5 35 1 4	52 18 45 1 4	$77 \\ 10 \\ 57 \\ 2 \\ 5$	108 35 172 10 12	Wire rods. Hoops and strips. Plates and sheets. Steel-flats.		
Fil de fer	6 76	29 56	19 138	15 178	$35\\246$	33 292	55 241	Galvanised sheet and tinplate. Wire. Rails. Other railway and tramway		
mins de fer et tramways Essieux de chemins de fer et	1	4	6	4	. 3	4	9	material.		
autres	2 3 18 5 69	$ \begin{array}{r} 2 \\ 30 \\ 16 \\ 6 \\ 50 \\ \end{array} $	2 9 20 9 100	4 5 16 12 110	9 6 24 19 209	5 7 30 19 174	$\frac{4}{70}$	Railway and other axles. Anchors, cables and chains. Nails and screws. Tubes and pipes. Unenumerated.		
Total	630	884	1.629	1.967	2.217	2.818	3.875	Total.		
Pays de destination : Grande-Bretagne Belgique Allemagne Sarre Italie Suisse Algérie Non spécifiés	$ \begin{array}{r} 17 \\ 289 \\ 17 \\ 4 \\ 55 \\ 80 \\ 99 \\ 69 \\ 69 \\ \end{array} $	85 396 27 45 70 58 42 111 50	190 887 90 94 38 65 47 118 100	134 660 547 170 55 77 40 174 110	216 849 164 185 70 236 60 228 209	516 993 360 196 113 159 77 230 174	709 1.210 647 1 393 230 108 226 352	Countries of destination : Great Britain. Belgium. Germany. Saar. Italy. Switzerland. Algeria. Other countries. Unallocated.		
Exportations totales	630	884	1.629	2.967	2.217	2.818	3.875	Total exports.		
IT	ALIE		•	6 : A.			ITAL	Y		
Importations de déchet			AI DE FE	R.	IMPOI			AP AND IRON ORE.		
Milliers de t	onnes métriqu		1000	1004 1000	1000		-	0's omitted).		
Déchets de fer. Importations de : Allemagne	· 1912 . 45	1913 71	1920 2	1921 · 1922 8	1923 3	1924 23	44	Sorap Iron. Imports from : Germany.		
Argentíne. Etats-Unis France Royaume-Uni Indes anglaises et Ceyl	. 14 . 22 . 63 . 24	78 9	14 84		1 265 12 12	3 19 292 15 27	73 34 528 53 34	Argentine, United States, France, United Kingdom, British India and Cevion,		
Suisse	. 42 . 119	47 121	40	26 88	12 129	28 131	24 168	Switzerland. Other countries.		
Importations totales .	. 344	326	143	306	434	538	958	Total Imports.		
Minerai de fer. Importations totales .	. 19	8	2	1	5	79 .	309 J	Iron Ore. Total Imports.		

1 La Sarre est comprise dans le territoire douanier français à partir du 5 janvier 1925.

1 Saar is included in French Customs territory from January 5th, 1925.

ITALIE (suite)

6 : B.

Importations de fonte, fer et acier par articles et par pays d'origine. Imports of Iron and Steel by Articles and by Countries of Origin.

ITALY (continued)

Metric tons (000's omitted).

ET PAR PAYS D'ORIGINE. Milliers de tonnes métriques.

	1912	1913	1920	1921	1922	1923	1924	1925	
Articles : Fonte et alliage de fer Lingots, loupes, etc Pièces en fonte ou forgées Tiges et barres Fils Rails. Tuyaux et tubes Plaques galvanisées ou recouvertes	267 13 5 106 3 12 14 41 23	222 7 31 94 3 7 11 36 21	158 22 18 162 3 14 13 82 22		139 4 5 25 2 1 17 16 17	132 5 28 1 1 9 13 23	202 30 4 59 5 1 9 38 29 }	$266 \\ 150 \\ 4 \\ 231 \\ 2 \\ 1 \\ 7 \\ 120$	Articles. Pig iron and ferro-alloys. Steel lingots, blooms, etc. Castings and forgings. Rods and bars. Wire. Rails. Tubes and pipes. Plates. Galvanised and other coated plates.
Câbles en fer	31	78	1 61		<u>.</u> 4	<u> </u>	6	4	Wire rope. Unenumerated.
Total	515	510	556		230	221	383	785	Total.
Pays d'origine: Allemagne	208 12 208 33 	$ \begin{array}{r} 184\\ 6\\ 148\\ 21\\ \hline 151\\ \end{array} $	36 71 176 31 6 236		10 56 85 9 1 69	5 81 76 5 2 52	11 106 88 11 15 152	25 270 106 61 57 366	Countries of Origin: Germany. France. United Kingdom. Belgium-Luxemburg. Czechoslovakia. Unspecified. Other countries.
Total	515	510	556		230	221	383	785	Total.

JAPON¹

7 : B. C.

JAPAN¹

IMPORTATIONS ET EXPORTATIONS DE FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS D'ORIGINE ET DE DESTINATION. Imports and Exports of Iron and Steel by Articles and by Countries of Origin and Destination.

Milliers de			Metric tons (000's omitted).							
Importations	1911	1912	1913	1920	1921	1922	1923	1924	1925	Imports:
Articles : Fonte brute Tous les autres articles	197 421			349 883	227 526	344 861	366 634	457 976	316 473	Articles: Pig iron. All other articles.
Total	618			1.232	753	1.205	1.000	1.433	789	Total.
Chine	57 267 152 10 90 37 5	-		152 35 48 193 2 18 752 1 31	77 71 34 120 23 368 23 7	134 74 101 153 150 11 499 66 17	$ \begin{array}{r} 111 \\ 74 \\ 155 \\ 236 \\ 104 \\ 4 \\ 146 \\ 94 \\ 76 \\ \end{array} $	$170 \\ 95 \\ 160 \\ 330 \\ 178 \\ 23 \\ 301 \\ 152 \\ 24$	$\begin{array}{r} 48\\ 103\\ 154\\ 143\\ 143\\ 122\\ 44\\ 24\end{array}$	China. Kwantung Province. British India. United Kingdom. Germany. Sweden. United States of America Belgium. Other countries.
Importations totales	618			1.232	753	1.205	1.000	1.433	789	Total Imports.
Exportations d : Chine		:		18 20 10	15 16 4	15 12 2	22	22 29 1		Exports to : China. Kwantung. Other countries.
Exportations totales "				48	35	29	30	52	55	Total Exports 3.

¹ Chiffres pour le commerce en minerai et déchets de fer ne sont pas disponibles. ² Chiffres pour exportations par article ne sont pas disponibles. 1 Figures for trade in ore and scrap not available.

² Figures for exports by articles not available.

POLOGNE	POLOGNE									
			8 : A							
COMMERCE EN MINERAI DE FER	TRADE IN	IRON C)RE AND SCRAP IRON.							
Milliers de tonnes mét		Metric ton	s (000's omitted.							
Minerai de fer.	1920	1921	1922	1923	1924	1925	Iron Ore.			
Importations de : Allemagne Autres pays	8 4		· 209 · 31	625 43	$\begin{array}{c} 209 \\ 26 \end{array}$	129 140	Imports from : Germany. Other countries.			
Importations totales	12 5	21	240 52	668 15	235	259 27	Total Imports. Total Exports.			
Déchets de fer.							Scrap Iron.			
Importations de: Allemagne	1	1 1	73 3	289 11	146 6	157 6	Imports from: Germany. Other countries.			
Importations totales	1	2	76 15	300 17	152 4	163 1	Total Imports. Total Exports.			

Importations et exportations de fonte, fer et Imports and Exports of Iron and Steel by

ACIER PAR ARTICLES ET PAR PAYS D'ORIGINE.

ARTICLES AND BY COUNTRIES OF ORIGIN.

Milliers de tonnes m	étriques.		Metric tons (000's omitted.						
Importations:	1920	1921	1922	1923	1924	1925	Imports:		
Articles : onte brute	9 12 4 2 6 2 7 1	28 39 76 14 6 4 15 1	58 72 4 10 9 9 3 9	94 43 15 9 11 7 13	19 6 4 9 5 6 7 13	14 94 75 32 4	Articles: Pig iron. Bars. Rails. Special iron and steel. Sheets. Castings. Iron and steel manufactures Iron wire and nails. Other articles.		
Total	44	130	175	201	75	52	Total.		
Pays d'origine: llemagne	9 20 15 44	25 57 48 130	123 34 18 175	133 38 30 201	31 24 20 75	20 14 18 52	Countries of Origin Germany. Czechoslovakia. Other countries. Total Imports.		
Exportations:							Exports:		
Articles: onte brute. barres. tails. 'ers spéciaux'ors spéciaux Ouvrages en fonte. buvrages en fonte. buvrages en fer et acier 'ils de fer et clous. 'uyaux et raccords butres articles		$\frac{1}{\frac{1}{\frac{3}{\frac{3}{\frac{3}{\frac{3}{\frac{3}{\frac{3}{$	$ \begin{array}{c} 3 \\ 91 \\ 8 \\ 37 \\ 9 \\ 21 \\ 1 \\ \\ \end{array} $	$ \begin{array}{c} 1 \\ 197 \\ 15 \\ 105 \\ 4 \\ 38 \\ 2 \\ 1 \\\\\\$	9 55 205 205 20 1 20 1	2 2 5 16 2 3 5 2 3 5	Arlicles: Pig iron. Bars. Rails. Special iron or steel. Sheets. Castings. Iron and steel manufactures Iron wire and nails. Pipes and fittings. Other articles.		
Total	3	6	171	363	148	100	Total.		
Pays de destination : Allemagne Autres pays	2 1	6	162 9	342 21	119 29	72 28	Countries of Destination : Germany. Other countries.		
			171		148		•		

8 : B-C.

— 76 —

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9 : A.

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UNITED KINGDOM *

TRADE IN IRON ORE AND SCRAP IRON.

COMMERCE EN MINERAI DE FER ET DÉCHETS DE FER.

ROYAUME-UNI *

. En milliers de tor	nes de 1	.016 kgs.		•				Long to	ns (000's omitted).
Minerai de fer.	1912	1913	1920	1921	1922	1923	1924	1925	Iron Ore.
Importations de: Pays-Bas Espagne Algérie Tunisie Suède Norvège France Grèce Autres pays	27 4.290 748 239 355 402 171 194 176	27 4.714 763 279 367 488 327 217 260	7 4.138 885 314 456 155 209 39 297	14 794 416 187 177 80 78 32 110	28 1.525 698 207 321 166 236 20 272	30 2.569 998 346 609 438 479 70 332	$\begin{array}{r} 39\\ 2.642\\ 1.119\\ 320\\ 549\\ 505\\ 507\\ 42\\ 204 \end{array}$	$\begin{array}{r} 32\\ 1.944\\ 29\\ 226\\ 491\\ 374\\ 218\\ 14\\ 154 \end{array}$	Imports from: Netherlands. Spain. Algeria. Tunis. Sweden. Norway. France. Greece. Other countries.
Importations totales	6.602 6	$7.442 \\ 5$	6.500 2	1.888	3.473 5	5.871 3	5.927 2	$\substack{4.382\\3}$	Total Imports. Total Exports.
Déchets de fer.									Scrap Iron.
Importations totales	63 126	$\begin{array}{c} 123 \\ 117 \end{array}$	$\begin{array}{r} 436\\ 45\end{array}$	187 38	$\begin{array}{c} 105\\ 156\end{array}$	$\begin{array}{c} 212\\ 116\end{array}$	452 88	90 110	Total Imports. Total Exports.

9 : B.

IMPORTATIONS DE FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS D'ORIGINE.

Imports of Iron and Steel by Articles and by Countries of Origin.

En milliers de tou	nnes de f	.016 kgs.					Long to	ns (000's	omitted).
	1912	1913	1920	1921	1922	1923	1924	1925	
Arlicles :									Articles :
Fonte et ferro-alliages	218	216	230	680	164	110	308	286	Pig iron and ferro-alloys.
Loupes, billettes et planches	564	514	253	178	187	427	> 708	653	Blooms, billets and slabs.
Tôles et barres étamées	275	346	36	101	79	145	380	510	Sheet and tinplate bars.
Barres, tiges, angles, etc	164	200	91	129	75	143	255	232	Iron, bars, rods, angles, etc.
Tiges de fil	98	95	55	25	49	49	74	114	Wire rods.
Barres d'acier, acier d'angle,									
ébauches, etc	109	134	55	86	36	. 83	138	177	Steel bars, angles, shapes, etc.
Moulages en acier bruts	8	12	6	6	3	5	7	6	Steel castings in the rough.
Acier forgé	19	22	I	1	1	i	3	7	Steel forgings.
Poutres, longuerines, piliers, colonne	es 117	109	13	36	39	62	89	109	Girders, beams, joists, pillars.
Feuillards et bandes	55	72	33	32	21	15	36	71	Hoops and strips.
Plaques et tôles pas au-dessous)		Plates and sheets not under
de 1/8 de pouce	75	135	158	109	32	79	123		1/8 ".
Plaques et tôles au-dessous de					•••	••	}	176	Plates and sheets under
1/8 de pouce	26	35	16	17	8	12	13		1/8 ".
Tubes, tuyaux et raccords en fonte	8	11	6	28	20	16	27	37	Tubes, pipes and fittings, cast.
Tubes, tuyaux et raccords en fer	· ·		•			••	~ ·		Tubes, pipes and fittings,
malléable	34	53	15	28	21	24	37	51	wrought.
Rails creusés pour tramways	9	10	10	18	ĨĴ.	2	Ť		Tram rails, grooved.
Rails pour chemins de fer	14	22	4	25	11	9	21	32	Railway rails.
Bandages et essieux .	5	8	ī	<u> </u>	2	2	$\overline{2}$	1	Tyres and axles.
Fils de fer	49	54	29	35	36	36	46	58	Wire.
Clous en fil	56	50	43	36	45	51	53	61	Wire nails.
Autres clous et rivets	- 9	7	5	õ	3	4	5	8	Other nails and rivets.
Non spécifiés	84	126	48	65	55	47	103	132	Unenumerated.
Total	1.996	2.231	1.108	1.640	881	1.322	2.429	2.720	Total.
Pays d'origine:									Countries of Origin:
Suède	208	209	70	66	37	52	73	64	Sweden.
Pays-Bas	10	~~7	iĭ	31	35	21	35	55	Netherlands.
Belgique	450	584	263	847	372	674	1.208	1290	Belgium.
Allemagne	948	1.198	30	156	ĬĬŠ	14Ô	334	367	Germany.
France	15	37	61	249	153	242	436	596	France.
Luxembourg				~ 10	32	65	206	204	Luxemburg.
Etats-Unis	334	154	495	138	63	68	64	60	United States of America.
Autres pays	30	12	147	153	5			69	Other countries.
Non spécifiés	i	ŝõ	31		66	$\left\{\begin{array}{c} 23\\ 37\\ 37\end{array}\right\}$	73 {	15	Unallocated.
operate to							`		
Total	1.996	2.231	1.108	1.640	881	1.322	2.429	2.720	Total.

* 1912-1922 y compris Irlande; 1923-1925 non compris Etat libre d'Irlande.

 1912-1922 including Ireland; 1923-1925 excluding Irish Free State.

Annexe IV.

Annex IV.

ROYAUME-UNI* (suite).

9 : C.

UNITED KINGDOM * (continued).

EXPORTATIONS DE FONTE, FER ET ACIER PAR ARTICLES ET PAR PAYS DE DESTINATION.

EXPORTS OF IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF DESTINATION.

, ET PAR PAYS DE	DESTIN	ATION.					COUNI	FRIES OI	F DESTINATION.
Milliers de tonne	s de 1.01	6 kgs.					Long 1	ns (000's	omitted).
	1912	1913	1920	1921	1922	1923	1924	1925	
Articles :									Articles :
Fonte brute et ferro-alliages Loupes, billettes et planches	$1.262 \\ 4$	1.124	580	136	793 9		600 11	560 5	Pig iron and ferro-alloys. Blooms, billets and slabs.
Barres en fer, tiges, angles, etc.	147	14 î	5 9	3ĩ	3ĭ	44	43	37	Iron bars, rods, angles, etc.
Barres en acier, tiges, angles,	o. 1. 1	054	000	407	004	057	071	0.07	Steel bars, rods, angles, shapes,
formes, etc	241 1	251	363 1	107	221	354 1	$274 \\ 2$	237	etc. Steel castings.
Acier forgé	3	1	1			1	1	Í	Steel forgings.
Longuerines, poutres, solives, etc.	121 40	122 46	98 56	$\frac{39}{22}$	59 48	77 72	$72 \\ 70$	64 61	Girders, beams, joists, etc.
Feuillards et bandes	40	40	50	22	40	12	70	01	Hoops and strips. Plates and sheets not under
de 1/8 de pouce	143	136	199	131	85	194	184	119	1/8 ".
Plaques et tôles, au-dessous de 1/8 de pouce	74	68	138	49	169	285	247	199	Plates and sheets, under 1/8 ".
Plaques noires et plaques «Canada»	66	72	36	14	56	54	44	35	Black plates and Canada plates.
Tôles galvanisées	659	762	411	212	513	602	650	713	Galvanised sheets.
Plaques étamées ternes et autres plaques recouvertes	481	494	353	227	449	552	555	511	'Tin terne and other coated plates.
Tubes, tuyaux et raccords en fonte	220	235	100	257	76	88	84	94	Tubes, pipes and fittings. cast.
Tubes, tuyaux et raccords forgés	. 179	165	126	78	86	154	168	192	Tubes, pipes and fittings wrought
Rails creusés pour tramways Rails pour chemins de fer	$\frac{3}{407}$	$\frac{6}{500}$	3 131	6 177	5 254	19 288	10 175	10	Rails grooved for trams. Rails, railways.
Traverses et éclisses	110	119	61	69	143	82	91	94	Sleepers and fishplates.
Fil de fer	64 55	61 56	67 52	21 21	55	79	78 50	74	Wire.
Clous, pointes et rivets	24	23	21	21	35 12	53 17	50 17	44 18	Wire manufactures. Nails, tacks and rivets.
Boulons, ecrous et vis, pour				-					Bolts and nuts and screws for
métaux	28 32	25 35	24 31	14 15	15 11	24 15	31 16	33 16	metals. Anchors and chains.
Autres articles	444	522	331	261	272	352	378	405	Other items.
		1 000		······	<u> </u>	_			
Total	4.808	4.969	3.251	1.697	3.397	4.318	3.851	3.731	Total.
Pays de destination :									Countries of Destination :
Norvège	94	· 83	66	16	37	53	57	48	Norway.
Suède	114 67	. 118 69	59 55	12 17	40 44	69 76	50 74	44 55	Sweden. Denmark.
Allemagne	297	199	27	4	89	312	89	76	Germany.
Pays-Bas	176 127	146	137	60	65	97	77	102	Netherlands.
France	127	126 203	$\begin{array}{c} 246 \\ 239 \end{array}$	58 44	132 146	163 139	166 123	112 73	Belgium. France.
Suisse	11	9	7	. 5	10	10	7	7	Switzerland.
Portugal	$\frac{34}{42}$	39 43	60 58	10 22	30	38	34	24	Portugal.
Italie	165	144	127	$\tilde{\tilde{25}}$	$\frac{46}{94}$	50 89	$50 \\ 93$	51 106	Spain. Italy.
Roumanie	51	26	7	6	14	10	18	10	Roumania.
Grèce	16	8 34	10 41	5 19	5 28	6 31	13 26	12 31	Greece. Java.
Siam	2	12	7	4	10	9	~0 9	10	Siam.
Chine	31	58	81	48	67	72	64	50	China.
Japon Afrique orientale portugaise	$295 \\ 48$	$238 \\ 55$	169 34	99 16	136 22	300 25	239 25	$135 \\ 54$	Japan. Portuguese East Africa.
	66	60	32	12	18	33	43	34	Chile.
Brésil Argentine	137 302	118 359	46	18	34	55	66	55	Brazil.
Autres pays de l'Amérique du Sud	502	35	117 22	99 12	128 21	174 60	230 42	272 45	Argentine. Other countries in South America
rials-Unis	133	177	83	18	397	320	137	164	United States of America.
Indes et Ceylan . Etablissements des Détroits .	706 52	896 113	687 71	435 59		672	599	633	India and Ceylon.
Hong-Kong	17	28	33	24	32	60 34	$\frac{79}{40}$	104 24	Straits Settlements. Hong-Kong.
Egypte	38	63	76	32	35	40	44	43	Egypt.
Afrique orientale anglaise Afrique occidentale anglaise	19 9	19 46	12 33	7 64	31 84	23 76	41 55	75 53	British East Africa. British West Africa.
Afrique du Sud et Rhodésie	239	261	163	93	111	184	207	218	South Africa and Rhodesia.
Canada	206 556	187 567	31	18	114	121	118	102	Canada.
Nouvelle-Zélande	158	154	194	149 61	374 91	488 133	454 137	432 153	Australia. New Zealand.
Antilles anglaises	9	11	9	9	15	13	14	13	British West Indies.
Autres possessions britanniques Autres pays	406	26 239	32 110	$52 \\ 65$	27 138	112 171	141	135	Other British Possessions. Other countries.
Non spécifiés			110		130	1/1	190	176	Unallocated.
Total	4.808	4.969	3.251	1.697	3.397	4.318	3.851	3.731	Total.
			0.201	1.001	0.007	1.010	0.001	0.101	1 04444

• 1912-1922 y compris Irlande; 1923-1925 non compris Etat libre d'Irlande.

* 1912-1922 including Ireland; 1923-1925 excluding Irish Free State.

manganese.

manganese.

SUÈDE

TRADE IN IRON ORE AND SCRAP IRON.

SWEDEN 10 : A. COMMERCE EN MINERAI DE FER ET DÉCHETS DE FER. Milliers de tonnes métriques Metric tons (000's omitted) . Minerai de fer. Iron Ore. Exportations à : Allemagne Belgique Exports to: 4.218 211 4.978Germany. Belgium. 2 1 1 2 3.131 3.630 2.364 3.839 6.578 111 673 513 240 357 267 Norway. United Kingdom. United States. Other countries. . Etats-Unis . . . Autres pays. . . 98 85 117 Exportations totales. . . . 5.520 6.440 3.171 120 4.193 4.933 4.766 5.731 8.343 Total Exports. Total Imports. Importations totales. . . Déchets de fer. Importations totales.... Scrap Iron. $\frac{16}{22}$ 12 Total Imports. Total Exports. Exportations totales. Ĩ. ĩ, 10 : B-C. COMMERCE EN FONTE, FER ET ACIER PAR ARTICLES TRADE IN IRON AND STEEL BY ARTICLES AND BY ET PAR PAYS D'ORIGINE OU DE DESTINATION. COUNTRIES OF ORIGIN OR DESTINATION. Milliers de tonnes métriques Metric tons (000's omitted) Importations: Imports: Articles : Fer d'angles et autres espèces de fer laminé à chaud.... Fer étiré ou laminé à froid Articles : Angle iron and other hot-rolled iron. Iron cold-rolled or drawn. 61 37 49 51 30 54 35 17 15 50 $\frac{1}{28}$ 84 21 15 13 Tôles. . Fonte . Sheets 8 8 1ÕŎ Pig iron. Tuyaux en fonte non malléable . Tuyaux laminés ou étirés à chaud . 12 11 Cast-iron pipes. Pipes hot-rolled or drawn. Ferro-silicium et ferro-manganèse Ferro-silicon and ferro-35 Rails. Other articles. Rails. 31 31 Autres articles. Total. Total. Countries of Origin : Pays d'origine : 12 38 27 32 65 29 $\begin{array}{r}
 142 \\
 63 \\
 42 \\
 31
 \end{array}$ Germany. 53 35 Belgium. United Kingdom. Unspecified. 102 51 9 **i** 18 Autres pays. Other countries. $\tilde{22}$ $\tilde{26}$ Importations totales. . . . 33ł Total Imports. Exportations: Articles : Fer d'angle et autres espèces de fer Exports: Articles: Angle and other hot-rolled iron. laminé à chaud 15 6 5 2 2 5 3 5 5 3 7 5 Ingots. Iron, cold-rolled or drawn. Ferro-silicon and ferro-manga Lingois. Fer étiré ou laminé à froid. Ferro-silicium et ferro-manganèse 7 6 8 łŏ ã 10 1² 13 Tôles. . . . Sheets. Bars. Pig iron. Tool steel. 195 $2\tilde{0}$ $\tilde{92}$ Fonte bruie. Acier pour outils. Fer ébauché fondu, etc. Tuyaux laminés ou tirés à chaud $\frac{23}{12}$ 4 1 5 6

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 $\frac{60}{98}$

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Exportations totales. . . .

Total.

Pays de destination :

Royaume-Uni

Non dénommés

Autres pays. .

57

Tool steel. Castings, etc. Pipes, hot-rolled or drawn. Nails. Rails. Other articles.

Total.

Countries of Destination : Germany. France. United Kingdom. Japan. United States of America. Unspecified. Other countries.

Total Exports.

11 : A.

TCHÉCOSLOVAQUIE

COMMERCE EN MINERAL DE FER ET DÉCHETS DE FER.

Milliers de tonnes métriques.

Minerai de fer.	1920	1921	1922	1923	1924	1925	Iron Ore.
Importations de: Allemagne Autriche Suède Autres pays	122 106 333 2	100 91 49 145	21 29 71 33	6 32 663 132	$32 \\ 3 \\ 504 \\ 190$	$ \begin{array}{r}120\\580\\126\end{array} $	Imports from : Germany, Austria. Sweden. Other countries.
Importations totales	563 43	385 33	154 61	833 101	729 125	826 82	Total Imports. Total Exports.
Déchets de fer.							Scrap Iron.
Importations totales	29 4	62 2	166 4	157 10	116 1	133 3	Total Imports. Total Exports.

11 : B.

ET PAR PAYS D'ORIGINE

Milliers de tonnes métriques

IMPORTATIONS DE FER, FONTE ET ACIER PAR ARTICLES IMPORTS OF IRON AND STEEL BY ARTICLES AND BY COUNTRIES OF ORIGIN.

CZECHOSLOVAKIA

TRADE IN IRON ORE AND SCRAP IRON. Metric tons (000's omitted).

Metric tons (000's omitted)

Articles :	1920	1921	1922	1923	1924	1925	Arlicles :
Fonte et alliages. Barres . Plaques et tôles . Fils . Tuyaux, tubes, cylindres . Fer de construction . Tonneaux et ouvrages en tôle . Rails et autre matériel pour chemins	38,7 8,6 8,9 4,0 1,0 1,6 2,6	35,5 6,0 2,3 2,9 1,4 0,6 2,0	23,2 3,1 2,1 2,0 1,7 0,6 1,8	16,1 2,6 1,7 2,3 0,9 0,1 1,0	63,9 4,5 6,3 3,5 1,2 0,1 1,4	62,0 6,4 8,5 4,4 1,7 0,1 2,1	Pig iron and ferro-alloys. Bars. Plates and sheets. Wire. Tubes, pipes, cylinders. Structural iron. Casks, wares of sheet iron.
de fer Outils et ustensiles. Clous, boulons, vis, rivets Chaines. Articles en fil de fer Non spécifiés	2,8 2,4 1,8 0,2 1,9 3,6	3,2 1,6 1,3 0,1 1,8 0,2	2,2 1,6 0,6 0,1 0,5 0,1	0,4 0,9 0,2 0,1 0,3	0,8 1,3 0,3 0,1 0,2	1,3 1,8 0,5 0,2 0,4	Rails and other railway material. Tools and implements. Nails, tacks, screws, rivets. Chains. Wares of wire. Unspecified.
Total	78,1	58,9	39,6	26,6	83,6	89,4	Total.
Pays d'origine :							Countries of Origin :
Allemagne Autriche Royaume-Uni Suède Autres pays	19,1 33,9 4,2 5,0 15,9	25,2 21,6 1,6 1,0 9,5	15,3 8,4 6,8 1,3 7,8	10,6 7,8 2,6 0,9 4,7	25,1 31,8 9,0 7,4 10,3	28,8 34,4 10,9 6,3 9,0	Germany. Austria. United Kingdom. Sweden. Other countries.
Total	78,1	58,9	396	26,6	83,6	89,4	- Total.

Annexe IV.

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TCHÉCOSLOVAQUIE (suite).

EXPORTATIONS DE FER ET ACIER PAR ARTICI

PAR PAYS DE DESTINATION.

Milliers de tonnes métriques

CLES	ET	Exports of Iron and Steel by Articles and	BY
		COUNTRIES OF DESTINATION.	
		Notria tong (000/g omitted)	

CZECHOSLOVAKIA (continued).

Milliers de tonnes m	iétriques					Metric ton	s (000's omitted).
Articles :	1920	1921	1922	1923	1924	1925	Articles :
Fonte, loupes, alliages Barres Tôles et plaques Fils Cylindres, tuyaux, tubes Fer de construction Ouvrages en tôle Rails et autres matériels pour chemins de fer Outils et ustensiles. Clous, boulons, vis Articles en fil de fer Non spécifiés	31,5 32,0 14,4 7,1 17,9 6,2 10,4 4,7 2,5 9,0 0,7 0,9	$\begin{array}{c} 49,8\\ 26,1\\ 31,4\\ 1,0\\ 28,6\\ 5,9\\ 11,8\\ 3,0\\ 2,5\\ 4,4\\ 0,4\\ 1,0\\ \end{array}$	54,448,826,10,927,14,24,33,61,53,90,20,4	183,5154,448,536,851,93,051,91,66,80,50,4	81,7 83,1 67,7 25,1 80,9 2,2 3,2 26,1 1,8 10,2 0,7 0,2	$\begin{array}{c} 83,4\\ 103,9\\ 112,7\\ 37,8\\ 102,3\\ 1,9\\ 13,3\\ 14,9\\ 2,8\\ 9,4\\ 1.5\\ 0\end{array}$	Pig iron, blooms, alloys. Bars. Sheets and plates. Wire. Cylinders, pipes and tubes. Structural iron. Wares of sheet iron. Rails and railway material. Tools and implements. Nails, tacks, screws. Wares of wire. Unenumerated.
Total	137,3	177,9	175,4	543,8	382,9	483,9	Total.
Pays de destination :							Countries of Destination :
Allemagne Autriche Hongrie Pologne Royaume des Serbes, Croates et Slovènes Italie Royaume-Uni Non spécifié et autres pays	13,4 43,1 10,9 24,6 5,4 6,8 8,4 0,2 24,5	7,8 43,8 32,7 45,8 16,5 22,0 3,3 3,6 2,4	33,5 30,2 15,3 30,8 18,9 15,4 1,3 2,5 27,5	309,5 26,0 23,6 43,5 37,5 8,8 0,8 2,8 94,1	95,4 51,6 25,4 26,0 42,1 14,2 20,6 11,6 96,0	79,2 69,3 22,1 17,9 81,9 14,4 49,3 20,1 129,7	Germany. Austria. Hungary. Poland. Roumania. Kingdom of the Serbs, Croats and Slovenes Italy. United Kingdom. Unspecified and other countries.
Total	137,3	177,9	175,4	543,8	382,9	483,9	Total ^{"1}

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Annex IV.

ANNEX V.

NOTES AND OBSERVATIONS ON THE IRON AND STEEL INDUSTRY IN GERMANY, FRANCE AND THE UNITED KINGDOM

_ 82 _

MEMORANDUM ON THE GERMAN IRON AND STEEL INDUSTRY

Prepared by the Fachgruppe der Eisen schaffenden Industrie beim Reichsverband der Deutschen Industrie (Geschäftsführer Dr. J. W. Reichert)

October 1926.

Submitted by Dr. C. LAMMERS.

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I. PRINCIPAL CONDITIONS GOVERNING THE DEVELOPMENT OF THE GERMAN IRON AND STEEL INDUSTRY IN RECENT YEARS.

In 1913, Germany produced 19,309,000 tons of pig iron and 18,940,000 tons of raw steel. The English production amounted to 10,650,000 tons of pig iron and 7,790,000 tons of raw steel, and the French to 5,210,000 tons of pig iron and 4,690,000 tons of raw steel. The German iron and steel industry was thus twice as large as the English, and approximately four times as large as the French. Further, Germany was the chief iron-exporting country in the world.

As a result of the *Treaty of Versailles which involved* the separation of Lorraine, the detachment of Luxemburg from the German Customs territory, the incorporation of the Saar Territory with the French Custom's system, and the loss of Eastern Upper Silesia, the German iron and steel industry lost about 80 per cent of its production of iron ore, 30 per cent of its output in pit-coal, 30 per cent of its steel-works, and nearly 30 per cent of its rolling-mills. As compared with the production of 1913, the loss of part of its factories robbed the industry of 42 per cent of its production of pig iron, of 37 per cent of its production of raw steel, and approximately 34 per cent of the output from its rolling-mills.

The separation of Lorraine, Luxemburg and the Saar Territory was also a serious loss for the iron industry in *Rhenish Westphalia*, as the iron-works in the south-west had mostly been created in connection with that industry. Before the war, a constant exchange of goods had been established between the metal industry in Lorraine and Luxemburg, the iron industry in the Saar and the industrial territory in Rhenish Westphalia; iron ore, scrap and, in particular, pig iron and 'semi-manufactures and rolling-mill products were sent from the south-western to the north-western districts, while coal, coke, machinery, tools, etc. were sent south in exchange. These economic links have been broken.

Out of the total losses of the German iron and steel industry, those in Upper Silesia represented approximately 0.3 per cent of the iron ore, 5 per cent of the pig iron, 7 per cent of the raw steel, and 7.5 per cent of the rolling-mill output. Taken separately, Upper Silesia, as a result of the cession of its eastern portion to Poland, and in comparison with its pre-war production, has lost close upon 100 per cent of its iron ore, 64 per cent of its pig iron, 75 per cent of its raw steel, and 78 per cent of its rollingmill production.

The development of the German iron and steel industry since the war has been influenced by a series of transformations, the first of which was represented by the industry's re-adaptation (in 1918 and 1919) to peace-time production. The second (1920-23) was governed by inflation, the third (1923) by the occupation of the Ruhr territory, the fourth (1924) by the charges imposed by the MICUM, and by the stabilisation of the German currency; the fifth (end of 1924 and 1925) by the reconstruction of the age the sizth (1025 26) has measured of

metallurgical combines; the sixth (1925-26) by measures of rationalisation, and, in particular, by the amalgamation of part of the large concerns in the United Steel Works, etc.

The re-adaptation of the industry to peace-time production involved the destruction of a large amount of machinery and plant, and inflicted serious losses on the mixed factories, which owned extensive finishing works. The period of inflation was characterised by a lack of coal and coke, and by the failure to realise the actual loss sustained in capital in every form. The new plant set up to replace the lost works is far from sufficient to offset these capital losses. The occupation of the Ruhr territory brought production and sale to a standstill, and, combined with the charges imposed by the MICUM, caused heavy financial losses. With the stabilisation of the German currency during the autumn of 1923, the deflation crisis began, which, in the second half of 1925, reached its culminating point and showed its effect in a steady fall in the output. The revival of the iron and steel combines was a consequence of economic distress; it was an endeavour to adapt the supply to the demand, to stabilise prices as far as possible, and to re-establish the working of the industry under conditions which would ensure adequate profits. The measures of rationalisation were adopted for the same purpose.

Until January 10th, 1925, Germany was compelled, in virtue of the Treaty of Versailles, to admit duty free large quantities of iron and steel products coming from Lorraine, Luxemburg, the Saar Territory and Eastern Upper Silesia. Appendices 1 to 3 show how considerable these imports were.

The disturbance caused both in production and sale between 1920 and 1925 by the contingents imported duty free was further increased in 1925 and 1926 by the large imports consequent upon "dumping" by competing countries whose national currency, the franc, was depreciated. As is shown in Appendix 4, 877,451 tons of the products of the heavy metallurgical industry, *i.e.* 75.58 per cent of the total German imports of these products, came in 1925 from French Customs territory and Belgium and Luxemburg alone.

The monetary position in countries with a depreciated currency favoured their production of iron and steel and increased competition at home and abroad. These countries enjoyed more favourable natural conditions of production than Germany. Moreover, they paid their wages and taxes, their railway tariffs and the interest on their debts, etc., in depreciated currency and received — like France — the German reparation coke at cheap rates. These circumstances forced down the iron and steel prices both on the world market, where they hampered sale and export, and on the German home market, which had been reduced and impaired by the Treaty of Versailles, and experienced a slump in shipbuilding, mechanical engineering, the lesser metallurgical industries, the building industry, and all other iron-consuming industries. The numerous difficulties and obstacles placed in the way of international trade had similar Moreover, Germany has not much capital at her disposal but has to pay effects. high rates of interest for credit, is burdened with heavy taxation and social charges, and high railway transport rates drain upon her resources, and finally she has to make deliveries under the Dawes plan.

Appendix 5 shows the pre-war and post-war charges borne by seven German ironworks in respect of taxation and social welfare expenditure, compared with share capital and net profits. The seven examples chosen have reference to particularly sound concerns, able to pay large dividends in pre-war days, that is to say, in the years 1913 and 1914. The aggregate profits of these seven concerns during the last year before the war amounted to 63.337 million marks, for an aggregate share capital of 255.940 million marks. Pre-war dividends thus amounted to 24.7 per cent of share capital, so. that, after payment of a substantial dividend, considerable reserves could be built up. Pre-war taxes and social welfare charges totalled 22.562 million marks, or 8.8 per cent of share capital. The figures given for the post-war period have reference to the years 1924 and 1925. In three of the firms under consideration, the pre-war capital differs but slightly from post-war capital; whilst in four of them capital has been largely increased, owing to the extension of the concerns and especially to amalgamation with other large firms. The figure of 661.630 million marks, representing the aggregate post-war capital of these companies, has been calculated from the first balance sheets prepared on a gold basis. The net profits were only 7.576 million marks or 1.1 per cent of share capital, as against 24.7 per cent in the last year before the war. As a general rule, these firms were therefore unable to pay any dividend, as the total liabilities were very heavy and practically the whole of this meagre profit had to be carried forward as a reserve. The total burden of post-war taxation and social welfare expenditure, which was 73.223 million marks, represented 11.1 per cent of the increased share capital as against 8.8 per cent in pre-war days.

The burden as regards railway transport rates for iron will be appreciated from the following particulars. Post-war German goods traffic rates, inclusive of the 7 per cent tax on traffic, are roughly 45 per cent higher than the 1913 rates. Consignments for short distances not exceeding 50 kilometers, especially those for distances not exceeding 25 kilometers, are subject to considerably higher rates, as a result of the revision of transport rates carried out in recent years. This revision, which is bound up with the levying of reparation charges on the Reichsbahn, has also led to the withdrawal of many special cheap rates. In this way, the cost of transport has been increased to four or five times the pre-war amount. Owing to the higher cost of transport, as compared with pre-war rates, not only has the German iron industry had to face increased production costs, but its ability to find an outlet for its products, and to compete in the world market, has been impaired.

The effect of these circumstances is further aggravated by the fact that, owing to the inflation of the franc, the transport rates paid by the great competing industries of France and Belgium are considerably lower, when reckoned in terms of gold marks. In June 1926, for instance, the German railway rates for ore exceeded French rates by amounts rising to 60 per cent and were in some cases 300 per cent higher than the Belgian. The cost of transporting coal on the German railways exceeded that on the French railways by 100 per cent and that on the Belgian railways by more than 200 per cent. German railway rates for iron bars exceeded French rates by as much as 80 per cent and Belgian rates by 190 per cent. In the case of foreign shipments from seaports, the German railway rates for bar iron were from 130 to 150 per cent higher than the French rates, and exceeded the Belgian rates by amounts rising to 458 per cent.

The cost of railway transport is a matter of great importance to the German iron industry, as that industry requiries large quantities of raw and accessory materials such as ore, coke and coal. It is also an important consideration in connection with the marketing products. The cost of transport on the German railways accounts for a large proportion of the selling prices. In pre-war days, the special rates were a factor of the highest importance to the German iron industry, as regards both foreign shipments from seaports and exports across the land frontiers. The rates now in force for German iron exports shipped from German ports are twice or three times the pre-war figure.

These considerations show that the German industry is labouring under serious difficulties as compared with the industries of other competing countries.

2. CAPACITY OF PRODUCTION OF GERMAN BLASTFURNACES, STEEL-WORKS AND ROLLING-MILLS.

In the year 1913, the number of blastfurnaces in the German Customs territory as then constituted was 376, of which number 46 were situated in Luxemburg, 64 in Lorraine, 28 in the Saar Territory, 122 in Rhenish Westphalia¹, 43 in Siegerland, 14 in Western Upper Silesia, 21 in the eastern portion of Upper Silesia since assigned to Poland, and the remainder in other parts of German territory. The aggregate pig-iron production of German blastfurnaces was, at that time, 19.3 million tons.

At the end of 1925, there were 211 blastfurnaces in the German Customs territory as at present constituted (excluding the Saar Territory), 120 being situated in the Rhineland and Westphalia, and 15 in Western Upper Silesia. The total quantity of pig iron produced in Germany in 1925 was 10,176,000 tons in round figures. The output capacity of the blastfurnaces in German Customs territory as now constituted probably exceeds their pre-war capacity to an appreciable extent. Precise figures are unfortunately not available.

Accurate data are also lacking as regards the output capacity of steel-works. Valuable indications are, however, afforded by the manufacturing quotas of the Raw Steel Syndicate, which exceed 15 million tons.

As regards the output capacity of the rolling-mills, no indication is afforded by the number of mills, as they differ widely both in size and equipment and as their output capacity is governed by that of the steel-works with which they are connected. In 1913, the output of German rolling-mills in the German Customs territory as then constituted totalled roughly 16.7 million tons of rolled iron and steel products of all kinds. In

¹ Rhenish Westphalia should be understood to include the Rhenish Westphalian industrial district properly so called, exclusive of Siegerland and of the Lahn and Dill district.

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are unable to work at full pressure, owing to the shrinkage of the home market and the difficulties of selling in the world market.

3. ACTUAL OUTPUT.

(a) Production of Pig Iron.

As regards the proportion of pig iron produced before the war in Eastern Upper Silesia now assigned to Poland, accurate figures are available only for 1913. For the years 1909-1912, this proportion has to be estimated.

The average output of pig iron in former German Customs territory during the period 1909-1913 was about 16 million tons. Calculated for present-day German Customs territory, the average production for the period 1909-1913 amounted roughly to 9,250,000 tons. The loss caused by the Versailles Treaty is thus approximately 6,750,000 tons, or 42 per cent of the former output. In 1925, 10,177,000 tons of pig iron were produced. The output of pig iron for 1925 was thus roughly 6 million tons (or nearly 38 per cent) less than the total pre-war output.

As regards the position in separate districts, the production of pig iron in Rhenish Westphalia rose to 8 million tons in the year 1925, thus nearly reaching the 1913 level (8.2 million tons), and exceeding the average for the years 1909-1913 (6.9 million tons).

The average production in Upper Silesia for the years 1909-1913 was in round figures 931,000 tons. In the year 1913, considered separately, it was 995,000 tons. The proportion of the 1913 total Upper Silesian output produced by the western portion of Upper Silesia, which has remained German, was 370,000 tons. By the cession of Eastern Upper Silesia to Poland, nearly two-thirds of the former output have thus been lost. In 1925, the production of pig iron in Western Upper Silesia, amounting to 288,000 tons, had reached only about 77 per cent of the 1913 figure. This is not only due to bad economic conditions, but also of the disegregation of economic units forming an organic whole.

(b) Production of Raw Steel.

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The total production of raw steel for 1913 in German Customs territory as then constituted was, in round figures, 18.94 million tons. Calculated for German Customs territory as at present constituted, it works out at roughly 12.24 million tons. As a result of the Treaty of Versailles, the German iron and steel industry thus lost 6.7 million tons of raw steel, or roughly 37 per cent of its total output.

In 1925, the total output of raw steel in German Customs territory as at present constituted was, in round figures, 12.2 million tons. The figure is thus almost exactly equal to the 1913 output, within the present-day Customs territory. As regards the position in separate districts, the 1925 output for the Rhineland and Westphalia, amounting to 9.9 million tons, has not yet quite reached the 1913 figure, which was 10.1 million tons.

Upper Silesia produced roughly 1.4 million tons of raw steel in 1913. Of this quantity, 350,000 tons were produced in Western Upper Silesia. By the cession of Eastern Upper Silesia to Poland, 1.05 million tons of raw steel, or roughly 75 per cent of the Upper Silesian peace-time output, have thus been lost. In 1925, Western Upper Silesia produced 366,000 tons of raw steel, thus somewhat exceeding its pre-war output.

(c) Output of Rolling-mills.

The total production of rolled iron and steel for 1913 in German Customs territory as then constituted was, in round figures, 16,698,000 tons. Calculated for German Customs territory as at present constituted, it works out at 11,005,000 tons. As a result of the Treaty of Versailles, the German iron and steel industry thus had its pre-war output of rolled iron and steel reduced by 5.69 million tons, or 34 per cent.

In 1925, the total output of the rolling-mills was, in round figures, 10,246,000 tons. It was thus 750,000 tons below the 1913 output for German Customs territory as at present constituted.

As regards the position in separate districts, the output in the Rhineland and Westphalia for 1925, totalling roughly 8.2 million tons, was about 1 million tons less than the 1913 output (roughly 9.2 million tons).

Upper Silesia produced 1,278,000 tons in 1913. Of this quantity, 271,000 tons were produced in Western Upper Silesia. By the cession of Eastern Upper Silesia to Poland, the 1913 output of rolling-mills has thus been reduced by over 1 million tons, or 78 per cent.

In 1925, the output of the rolling-mills in the Western Upper Silesian territory which has remained German amounted to 286,000 tons; it was thus somewhat higher than the 1913 output in that area.

4. NUMBER OF WORKERS EMPLOYED. - UNEMPLOYMENT.

In 1924, 24,731 workers were employed at blastfurnaces, 33,287 in steel-works and 90,830 in rolling-mills, giving a total of 148,488 workers. Corresponding official figures for 1925 are not yet available.

The number of unemployed cannot be separately ascertained for the iron-producing industry, as the branch of industry to which individual unemployed workers belong is not officially recorded. Official statistics are prepared only for unemployment as a whole. The trade unions compile private statistics classified according to the main groups of industries. In these, however, all workers in the iron-producing, iron- and other metal-working industries are comprised under the single heading of "metalworkers". The exact percentage of unemployment therefore cannot be given. Unemployment in the iron-producing industry has grown considerably since 1925. This is an effect of bad economic conditions and of the rationalisation schemes. Even with increased production it will scarcely be possible henceforth to re-absorb into the iron-works all the unemployed workers originally belonging to the iron-producing industry.

5. HOURS OF WORK. - INDIVIDUAL OUTPUT.

Respecting the actual number of hours worked, and individual output in relation to total output, it is also impossible to give any particulars. As regards the number of hours actually worked, no statistics are complied. It would seem desirable that uniform standards should be laid down for the compilation of such international data. Internationally comparable figures as to individual output are not to be obtained by simply dividing total output by the number of workers. If comparable figures are to be secured, standards should be laid down on international lines indicating which classes and groups of workers in the various branches of industry are to be regarded as "working". The position in this respect differs from firm to firm. Account should, moreover, be taken of the technical equipment of establishments, as establishments abundantly equipped with machinery and mechanical appliances can secure a given output with an appreciably smaller number of workers than establishments in which manual labour plays a more prominent part.

6. WAGES.

According to official statistics, wage payments in 1924 amounted to 47,691,000 Reichsmark in the case of blastfurnaces and 236,965,000 Reichsmark in the case of steel-works and rolling-mills. Official figures are not yet available for 1925. It should be emphasised that the year 1924 in the German iron and steel industry was the period of so-called "cranking up", to set the economic machinery in motion again after the occupation of the Ruhr and the collapse of German currency. Wages have risen appreciably since 1924.

The movement of the average real earnings per hour in the Rhineland and Westphalia iron industry is shown in Appendix 6, giving the trend of real wages as well for the whole shift as separately for locksmiths, whose wages are typical of the earnings of skilled specialists. It shows that the real wages, both of the shift as a whole and of locksmiths in particular, are above peace-time real wages, even measured by the new extended cost-of-living index, so that the workers are better off at present than they were in the first quarter of 1914.

7. RAW MATERIALS USED.

(a) Supplies of Iron Ore.

In consequence of the Treaty of Versailles and of the withdrawal of Luxemburg from German Customs territory, the German iron and steel industry has lost the

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Lorraine-Luxemburg minette basin as an ore deposit of its own. According to estimates drawn up by German experts in 1917, this minette deposit was capable of yielding roughly 1,777 million tons of ore, allowing for 10 per cent wastage in the process of extraction.

The accessible supplies of iron ore in the territory of present-day Germany are only about 474 million tons. There is no really rich ore (over 55 per cent Fe.), and even so-called middle grade ore (between 40-55 per cent Fe.) is available only in quite small quantities. The highest content of iron, approximately 41 per cent, is found in the Lahn and Dill district ores; the lowest, approximately 13.5 per cent, in the brown hematite and limonite ores of the Osnabruck districts. Nearly all the German iron ores are difficult to extract and in cases require special dressing. They are almost without exception "poor", *i.e.* the metallic content is even below the figure laid down in the United States of America as representing the economic limit of extraction, namely, 45 per cent. If it be considered that, according to German scientific calculations, the iron-ore deposits of France are estimated at approximately 9,763 million tons, those of the United States at 4,258 million tons, those of England at 2,929 million tons and those of Sweden at 1,325 million tons, it will be realised how poor Germany is in the matter of iron ores, and what a loss the German iron industry has suffered by being cut off from the Lorraine-Luxemburg minette district.

The average for the years 1909 to 1913 of the iron ore extracted in German Customs territory as then constituted was roughly 31 million tons; the quantity extracted in the present-day Customs territory being only approximately 6.4 million tons. Only a few iron- and steel-works possess their own ore-mines in Germany. In certain cases, long-term contracts have been concluded with foreign mines. Changes in the ore used have not necessitated any alterations in the technical equipment of establishments. Germany must look to imports from abroad for its supply of iron ore.

(b) Imports of Iron Ore.

The imports of iron ore into German Customs territory as formerly constituted averaged 11 million tons during the years 1909 to 1913. Imports during that period into German Customs territory as at present constituted (without the Saar district) cannot be calculated, as statistics do not provide the requisite data. In 1925, 11.5 million tons were imported into the present Customs territory. Quantitatively considered, imports in 1925 showed no appreciable difference when compared with the average imports for the years 1909 and 1913. It should be borne in mind, however, that, before the loss of the Lorraine-Luxemburg minette district, the supplies of ore drawn from home deposits yielded 9.5 million tons of pig iron, whereas in 1925 the production of pig iron from German ore amounted only to some 2 million tons.

Imports of ore from Spain and of minette from France, which in former days were used principally to supply German Lorraine, Luxemburg and the Saar Territory, have fallen heavily. The imports from Sweden have greatly increased. Present arrangements as regards the importation of iron ore may undergo certain changes.

The imports of manganese ore into German Customs territory as formerly

constituted averaged roughly 500,000 tons during the period 1909 to 1913. It is not possible to calculate the pre-war imports into present-day Customs territory. In 1925, roughly 200,000 tons were imported into the present Customs territory.

(c) Prices of Iron Ore.

Prices of ore cannot be compared with those prevailing in 1913, as the 1913 freight basis was different. Generally speaking, it may be said that the price of ore has risen somewhat since pre-war days.

(d) Supplies of Coke.

The German iron-producing industry obtains its supplies from its own cokefurnaces; no contracts for the delivery of coke are therefore made. This state of affairs already existed during the period 1909 to 1913. The German iron industry has its own coal-mines, from which it draws its supplies.

(e) Supplies of Scrap.

The total amount of scrap iron consumed in 1913 in the German Customs area as then constituted was 6.786 million tons; the amount consumed in the present Customs territory (excluding the Saar District) being 5.572 million tons. No official figures are as yet available for 1925, but consumption may be estimated at not less than 6.5 million tons. In comparison with 1913, the consumption of scrap in present-day German Customs territory has risen by approximately one million tons, as the production of steel is based more extensively upon the use of scrap than it was formerly. The extent to which the use of scrap entered into the production of steel may be assumed to be 47 per cent for 1925. Blastfurnaces have also become large consumers of scrap.

The consumption of scrap in German steel-works (expressed in units of 1,000 tons)

Year	Former German territory	Present-day German territory
1912	5,229	
1913	5,579	4,531
1920	4,218	3,716
` 1921	4,827	4,391
1922		5,235
1923		3,131
1924		4,278

In 1913, roughly 210,000 tons of scrap were imported into German Customs territory as then constituted, whilst in 1925 roughly 215,000 tons were imported into presentdaÿ German Customs territory.

has been as follows:

The export of scrap was nearly 194,000 tons in 1913, and roughly 286,000 tons in 1925. This considerable increase of exports is attributable largely to the fact that Germany is required under the Geneva Convention to deliver up to June 15th, 1927, large quantities of scrap to Poland. Czechoslovakia and Italy have also drawn on Germany for large supplies of scrap. As regards the price of scrap, the 1913 average price of 55 marks f.o.r. consumer works in Rhenish Westphalia for the most important type of scrap, so-called "Kernschrott", rose to the average figure of 64.25 marks in 1925.

8. CUSTOMS TARIFFS. - IMPORT PROHIBITIONS AND LICENCES.

The duties (general and conventional) on iron and steel in Germany have remained much below the high protective duties of other countries so far as heavy iron products are concerned. Unlike the duties in other countries, which have been considerably raised, the main duties on iron and steel have remained unchanged for decades. In the case of certain iron products, the rates of duty have been either permanently fixed or reduced as a result of commercial treaty negotiations.

There are no import or export prohibitions in Germany for iron and steel products. Only in the case of exports of scrap are authorisations required.

9. EXPORTS AND IMPORTS OF IRON AND STEEL¹.

What quantities of pig iron, cast iron and rolled iron and steel products were imported into, and exported from, German Customs territory in its present-day extension during the years 1909-1913 cannot be determined.

The quantity of such products exported from German Customs territory as formerly constituted was roughly 5.433 million tons in 1913, and averaged roughly 4.486 million tons during the period 1909-1913. In 1925, exports of these products fell to 2.488 million tons, a decrease of 2.95 million tons, or in round figures 3 million tons, as compared with the 1913 figure. Compared with the average figure for 1909-1913, exports showed a decrease of roughly 2 million tons.

The German iron industry has thus to a very large extent been driven out of its old markets. The principal cause to which this drop in exports must be referred is, apart from the loss of territory resulting from the Peace Treaty, the competition arising from inflation in countries with depreciated franc currencies. This will be plain from the following figures:

French exports of similar goods have risen from 0.43 million tons in 1913 to 2.8 million tons in 1925; they have thus increased by some 2.4 million tons, or nearly sevenfold. In the first half of 1926 they showed a still further increase.

In 1913, Belgium exported 1.33 million tons; in 1925, together with Luxemburg, it exported roughly 2.9 million tons.

¹ The exports and imports as shown in the general memorandum and in Annex IV include certain iron and steel products excluded from the import and export figures quoted in this section.

Whereas German exports show a decrease of some 3 million tons when compared with 1913 figures, exports from France, Belgium and Luxemburg have increased by some 4 million tons.

In the case of Germany, the situation has also changed with respect to importations of iron and steel; the heavy fall in exports has been accompanied by a sharp rise of imports. In 1913, imports of the above-mentioned products into German Customs territory amounted only to 243,400 tons, and averaged roughly 254,900 tons during the period 1909-1913. In 1925, however, imports into the reduced Customs territory totalled 1.161 million tons. Imports for 1925 are thus equivalent to more than four times the figure for 1913 and the average figure for the period 1909-1913. As already pointed out, the competition arising from inflation in countries with franc currencies also made its effects felt on imports.

10. IRON AND STEEL CONSUMPTION.

In its Memorandum on the Iron and Steel Industry, the Secretariat of the League of Nations has attempted to calculate the consumption of iron and steel, taking the production figures for pig iron and raw steel, and allowing for the quantities of pig iron and of finished iron and steel products imported and exported ¹. The danger of such a method of calculation is that it may obscure the real position, since the major part of the output of pig iron is absorbed in the production of raw steel. Only such quantities of pig iron as are produced in the form of foundry and hematite iron become available for consumption as iron products. The finished products are, moreover, already covered under the heading of raw steel and semi-finished products. The import and export surplus of such products is therefore included several times over. Such a method leads to an over-estimate of the consumption of pig iron and an under-estimate of that of steel.

A more correct view is obtained if the output of raw steel, plus that of weld iron, foundry pig iron and hematite iron, is taken as a basis, and allowance is made for imports and exports of heavy iron and steel products. In this connection, the term "heavy iron products" should be understood to include pig iron, ferro-alloys, cast-iron and semi-finished rolling-mill products, including railway materials. Such a method of calculation, with the line of demarcation drawn at the rolled iron and steel products, enables the quantities of products made available for consumption, or for the supply, of a given country to be more or less accurately gauged. Even here there are certain minor possibilities of error, but a closer approximation to the facts is nevertheless obtained.

Calculated according to this method, the consumption of iron and steel in Germany per head of population averaged roughly 222 kilos during the period 1909-1913, and

¹ This remark refers to the first draft of the memorandum prepared in June 1926, which contained two different consumption calculations, one referring to pig iron only and the other to the consumption of semi-finished and finished iron and steel. The consumption calculations have been revised in the definitive edition.

amounted to roughly 206 kilos in 1925. Compared with pre-war figures, the consumption figures for 1925 thus show a decrease of 16 kilos, or 7 per cent.

11. IRON AND STEEL PRICES.

The idea of giving prices separately for individual heavy iron and steel products had to be abandoned, as no basis of international comparison can be devised until the currency of every competing country has been stabilised and until world economic conditions become more stable. It should further be remembered that the freight basis in Germany varies to some extent in the case of heavy iron products, so that prices are not always quoted at the works, and that many quotations are merely indications for general guidance (*Richtpreise*) which differ from actual sale prices. For purposes of international comparison, it would also be necessary to ascertain whether any extra charge over and above the price at the works is made on specific kinds of products, what transport rates are charged for varying distances in the respective countries, and so on.

12. Organisation of the Iron and Steel Industry. — Agreements. — Buying and Selling Organisations.

The German pig-iron industry is organised under the Pig-Iron Association (*Roheisenverband*), which has been in existence for some 85 years. The Pig-Iron Association covers all blastfurnaces which produce the main kinds of pig iron. As a selling organisation, it controls the total pig-iron output of its members, so far as they do not subject this iron to further manufacturing processes in their individual establishments.

With few exceptions, German steel-works have, since 1924, been organised under the Raw Steel Syndicate (*Rohstahlgemeinschaft*), which seeks to regulate the raw steel output of its members by a system of fixed rationing quotas, and to adjust supply to demand. The Syndicate does not concern itself with the allocation of orders, sales or price fixing.

The German rolling-mills have been organised since July 1925 into the Steel-works Association (Stahlwerks-Verband), dealing with semi-finished products, rolled sections, permanent railway material, bar iron, thick plates and hoops and strips. As a selling syndicate for the first three of the products named, *i.e.* semi-finished products, rolled sections and permanent railway material (so-called A-products), the Steel-works Association had already been in existence from 1904-1920, but was then dissolved.

The Steel-works Association comprises a number of selling syndicates for specific rolled iron or steel products, such, for instance, as the A Products Association, the Bar-Iron Association, the Thick-plate Association and the Hoops and Strips Association. Apart from these, the tube and rolled-wire industries are separately syndicated. In the case of light plates and sheets, there is no association.

Negotiations for an international raw-steel cartel were recently concluded between the iron industries of Germany, France, Luxemburg, the Saar and Belgium. Other countries have been left free to join this cartel. The purpose of the negotiations was to adjust the steel production in Central and Western Europe to demand, and to reorganise the European market, which was disorganised during the post-war period owing to the collapse of the currency in all European iron-producing countries (except England), and in this manner to stabilise the world market.

The Association of Tube Manufacturers has also concluded international agreements with the tube-making industries of a number of neighbouring countries. Such agreements have been concluded as regards production of rails, and to a lesser extent as regards wire production.

There are no buying organisations. Selling organisations of producers exist in the form of the above-mentioned iron cartels and syndicates. Iron dealers have also formed associations to some extent.

An iron exchange of international importance, such as the Brussels Iron Exchange, does not exist in Germany.

Prices having an international character cannot be given.

During the period of depreciation of German currency, home prices, reckoned in gold, were lower than export prices. Since the stabilisation of the German currency, the position has changed somewhat under the influence of foreign industries, more especially those of countries with depreciated franc currencies. The above-mentioned international steel agreement aims at raising the world market-price of iron.

13. THE SAAR TERRITORY.

Although the German Saar Territory is at the moment incorporated in the French Customs system, from the point of view of the German iron industry, which from the beginning has been closely connected with the Saar iron industry, it would seem necessary to deal briefly in a separate section with the conditions prevailing in the Saar Territory.

The imports of iron ore into the Saar Territory averaged roughly 3,718,000 tons during the period 1909-1913; of this, some 3.16 million tons were drawn from the minette district of Lorraine (at that time German territory), the mineral deposits of which were the foundation on which the Saar iron and steel industry had been built up.

The output of pig iron and steel in the Saar Territory can be seen from the following figures:

Year	Pig iron in tons	Raw steel in tons
1909	1,132,344	
1910	1,197,688	
1911	1,219,707	
1912	1,300,662	
1913	1,370,980	2,079,825
Average 1909-1913	1,244,276	· · ·
1925	1,453,056	1,574,687

Under the influence of the inflation of the franc, the production of pig iron in the Saar Territory in 1925, amounting to 1,453,000 tons, exceeded the average peace-time output of 1,244,000 tons by roughly 200,000 tons.

As regards the production of raw steel, no figures are available from 1909-1912. In 1925 the output of raw steel was 1,575,000 tons, or 0.5 million tons less than in 1913.

In 1913, the output of the rolling-mills in the Saar Territory was roughly 1,652,000 tons. For the years 1909 to 1912, and 1925, no figures are available. Since, however, the 1925 production figures in respect of raw steel show a decrease as compared with those for 1913, it may be assumed that the output of the rolling-mills in the Saar Territory was also smaller in 1925 than in 1913.

Appendix 1.

Schedule of Alsace-Lorraine Iron and Steel Products, imported into Germany Customs Free under Articles 68 and 268a of the Treaty of Versailles, from January 11th, 1920, to January 10th, 1925.

Entry No. on the quota list	Description	11.1.1920 to 10.1.1921	11.1.1921 to 10.1.1922	11.1.1922 to 10.1.1923	11.1.1923 to 10.1.1924	11.1.1924 to 10.1.1925
104	Crude forged iron, crude cast iron and steel	20,530	99,467	445,722	80,242	275,847
107	Malleable iron, structural metal, black plates, tin plates, black and tin-plate					
	goods	942	8,983	22,170	4,250	10,970
108	Iron wire, metal wire, drawn-wire goods	1,159	12,675	11,884	7,645	11,937
109	Permanent railway mate- rial and railway rolling-					
	stock	79 1,667	2,198 497	37,927 329	6,429 690	19,615 3,098
	Total	24,377	123,820	518,032	99,256	321,467

(Quantities in metric tons.)

Appendix 2.

Schedule of Luxemburg Iron and Steel Products imported into Germany *Customs Free* under Article 268c of the Treaty of Versailles, from September 16th, 1920, to January 10th, 1925.

(Quantities in metric tons.)

Entry No. on the quota list	Description	to	to	16.1x.1922 to 15.1x.1923	to	' to
23	Crude cast iron and cast- iron goods Steel rolled and forged, and	44,355	34,487	15,872	6,992	21,239
- - 5	goods manufactured therefrom Cast-iron and steel sections. Iron and steel for general	88,292 4,495	381,494 600	248,924 307	97,123 38	198,478 885
:	construction and mecha- nical engineering	317	287	90		5
	Total	137,459	416,868	265,193	104,153	220,607

Appendix 3.

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SCHEDULE OF EASTERN UPPER-SILESIAN IRON AND STEEL PRODUCTS, IMPORTED INTO GERMANY Customs Free under Article 268b of the Treaty of Versailles and Article 224 of the German-Polish Convention of May 15th, 1922, on Upper Silesia, FROM JUNE 15th, 1922, to June 14th, 1925.

Entry No. on the quota list	Description	to	15.vi.1923 to 14.vi.1924	to
112	Pig iron . Steel (forged and in bars, rolled and forged steel,	2,719	4,484	3,730
115	Steel (forged and in bars, rolled and forged steel,			6.440
121	crude and worked)	15,814	7,581	6,110
130	(crude ingots, mill bars and billets, puddled bars, ingot iron, rolled ingots)	87,643	55,385	8,939
146	tube strips, waste concrete reinforcement and sectional iron, merchant iron for waste-pipe traps)	182,089	147,217	48,444
	rolled rings, sets of wheels)	9,893	7,840	1,185
155	Iron pipes and tubes	13,300	14,747	8,678
161	Cold-rolled hoops and strips	1,218	1,445	90
179	Permanent railway material (rails and iron sleepers for normal gauge and light railways and tramways, fishplates, shouldered sole-plates, sole-plates)	25,642	19,320	9,074
226	Iron plates and sheets (thick and light plates and sheets), dynamo sheets, transformer sheets,		,	
	stamped and chequered plates	71,116	48,589	32,806
	Other iron products	15,208	7,605	5,111
1	Total	424,642	314,213	124,167

(Quantities in metric tons.)

Appendix 4.

IMPORTS OF HEAVY IRON PRODUCTS FROM COUNTRIES WITH DEPRECIATED FRANC CURRENCIES IN 1925.

(Quantities in metric tons.)

		guantinos.							
No.				Portion imported from					mns 1- 5
on the statisti- cal list of goods	Product	1925 Total imports	1 France	2 Alsace- Lor- raine	3 Saar Terri- tory	4 Bel- gium	5 Luxem- burg	Total	Percen- tage of total imports
777a 777b 778a 779b 779a 779b 784 785 $A1$ 785 $A2$ 785 B 786 a 786 a 786 b 786 c 787 788 a 786 c 787 788 a 788 b 788 c 789 790 791 a^1 791 b^1 792 b^1 792 b^1 793 a 793 b 794 a 795 a	Pig iron Ferro-alloys Cast-iron pipes over 7 mm., rough * * * over 7 mm., rough * * * * * up to 7 mm., rough * * * * * up to 7 mm., rough * * * * * up to 7 mm., rough * * * * * up to 7 mm., rough * * * * * up to 7 mm., finished Semi-finished products . . Bar and sectional iron . . Hoops and strips . . Sheets, 5 mm. and over, and plates . . * over 1 mm. and under 5 mm. . * over 1 mm. and under 5 mm. . * ground, etc. . . Tin plates . . . Calvanised sheets . . . Galvanised sheets or sheets, etc. . . Sheets and plates, corruga	201,949 5,553 16,844 2,638 2,218 497 213,667 131,083 352,773 10,362 19,728 25,493 205 15,067 1,439 255 719 169 46,896 1,385 360 100 14 91 10,543 51 4,116	16,991 	rame 54,008	28,124 16,059 2,480 2,124 463 34,173 66,951 159,841 4,251 4,652 1,980 459 30,320 1,866 1,272	8,515 	20,221 	16,059 2,480 2,124 463	63.3 95.3 94.0 95.8 93.2 92.8 85.2 77.0 49.7 34.1 17.2 11.2 15.0 31.9 - 71.5 - 17.7 30.9
795 <i>b</i> 796 <i>a/b</i> 796 <i>c</i> 796 <i>d</i> 797	Rolled or drawn tubes, less than 2 mm.RailsSleepersFishplates, sole-platesRailway rolling-stock	109 96,160 516	508		80,385		3,141		
,,,	Total	1,160,900	31,106	192,534	436,454	18,098	199,259	877,451	75.58

¹ Change of item in the Customs list, altered classification.

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Appendix 5.

TAXATION AND SOCIAL WELFARE CHARGES IN THE CASE OF SEVEN GERMAN IRON-WORKS COMPARED WITH SHARE CAPITAL AND NET PROFITS. (Expressed in Thousands of Reichmarks.)

(a) Pre-war.

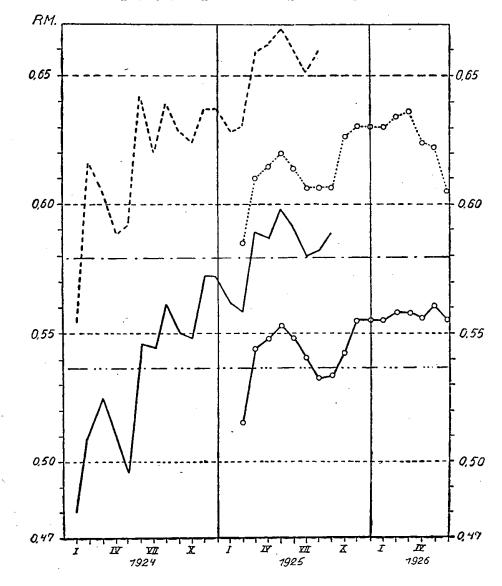
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(b) Post-war.

						on and	How made up:					
German iron-works		capital	Net p	rofits		welfare rges	Та	xes	Social welfare charges			
	(a)	(b)	(a)	(<i>b</i>)	<i>(a)</i>	(b)	(a)	(b)	(<i>a</i>)	(b)		
AB	22,000	26,300	1,978 2,533	315 116	1,450 346	3,951 1,277	217	1,441	1,223	2,51 0 570		
A B C D E F G	30,000	80,000	14,513 6,109	19 4,029	5,100 2,217	16,073 7,611	2,376	10,977 3,848	2,724	5,096 3,763		
E		46,000	46,000	64,500 160,000 300,000	10,114	350	3,940	17,900	1,340	10,700	2,600 4,595	7,200
F G	23,440	22,500	23,228 3,950	$1,212 \\ 1,538$	8,622 887	24,024 2,387	4,027	4,027 15,010 496 1,601		9,014 786		
Total (for the seven Works).	255,940	661,633	62,425	7,579	22,562	73,223	?	44,284	?	28,939		



MOVEMENT OF AVERAGE REAL EARNINGS PER HOUR IN THE IRON INDUSTR OF RHENISH WESTPHALIA DURING THE PERIOD 1924-1926.



0...0...0 =

Average earnings per hour of a locksmith in the first quarter of 1914. Average real earnings per hour of a locksmith, including family, etc., allowances, in 1924 and 1925, according to the Reich index figure (old method).

Average real earnings per hour of a locksmith, including family, etc., allowances, in 1925 and 1926, according to the Reich index figure (new extended method). Average earnings per hour of the whole shift in the first quarter of 1914.

Average real earnings per hour of the whole shift, including family, etc., allowances, in 1924 and 1925, according to the Reich index figure (old method).

Average real earnings per hour of the whole shift, including family, etc., allowances, in 1925 and 1926, according to the Reich index figure (new extended method).

OBSERVATIONS ON THE IRON AND STEEL INDUSTRY OF THE LORRAINE AREA.

Submitted by the Comité des Forges de France.

Communicated by M. DE PEYERIMHOFF DE FONTENELLE.

The Lorraine metal industry is of ancient origin, but was not developed until about 1880, when a satisfactory process for working the local ores was discovered. These had long been known to exist in abundance, but their large phosphorus content had hitherto prevented exploitation on a large scale. Progress was rapid, for in about thirty years the Lorraine metallurgical area rose to the important position it now holds in the world production of pig iron and steel. Until recently it was crossed by the Franco-German frontier, which divided it from north to south into two practically equal parts, the output of which was almost identical in value. In 1913 the French portion produced 3,546,000 metric tons of pig iron and 2,518,000 metric tons of steel, while the German portion produced 3,870,000 metric tons of pig iron and 2,285,000 metric tons of steel. The French portion included 99 blastfurnaces and 19 steel-works, while the German portion possessed 65 blastfurnaces and 9 steel-works. The incorporation of Alsace-Lorraine in France has thus increased the metal industry in the east of France to double its size of 1914. As the French iron and steel works in the east already held the most important position in the metal industry in our country before the war, the metallurgical area in French Lorraine to-day remains by far our largest centre of production, and alone represents 80 per cent of our output of pig iron and 70 per cent of our output of raw steel. These figures show the changes wrought in our eastern metallurgical area since the eastern frontier of France was extended to the Rhine. How far has the area been affected from the point of view of supplies and markets ?

As regards supplies, the situation varies as regards ore and coke, the two raw materials essential to the metal industry.

The existence in the sub-soil of Lorraine of one of the richest known deposits of iron ore explains the establishment of the metal industry in Lorraine. The industry has naturally been adapted for treating the Lorraine ore, with its relatively low iron and its high phosphorus content. The Lorraine metal industry has always used and still uses this ore almost exclusively, the only exceptions being a few special products produced on a small scale. The removal of the political frontier which crossed the Lorraine minette area should not affect the supply of ore for the Lorraine industry. The Lorraine iron and steel industry does not absorb the whole output of minette, but it has been found necessary to develop the exploitation of the mines beyond the needs of the local industry — while avoiding, of course, the risk of endangering future supplies — in order to reduce extraction costs by production on a large scale so that the minette ore can be supplied to the Lorraine blastfurnaces at rates affording compensation for the high manufacturing costs which have to be borne under other heads. In 1913 approximately 23,000,000 metric tons were treated in Lorraine itself (French and German portions), while the total output amounted to 41,000,000 metric tons. The post-war situation has remained unaltered, and during the first half of 1926 the consumption of minette in Lorraine amounted to nearly 11,000,000 tons of a total of 17,752,000 tons extracted. The surplus was despatched to Northern France, to the Saar, to Luxemburg, Belgium and Germany.

The situation with regard to coke is quite different, for, although the Saar coalfield is extended into Lorraine, the subsoil of the latter is much less rich in fuel. Moreover, neither the Lorraine nor the Saar coal is of the quality required to make good coke for the metal industry, and can only be used when mixed with other qualities of coal. Before the war there were neither collieries nor coke-works in French Lorraine; the whole of the coal required was purchased either from our coal-mines in the Nord and the Pas de Calais or from Germany, which used to supply no less than 2,400,000 metric tons annually. The German Lorraine blastfurnaces obtained from 70,000 to 80,000 metric tons of coke locally — a very small figure as compared with the total consumption (4,548,000 metric tons), more than 80 per cent of which came from the Ruhr. The total requirements amounted to 8,650,000 metric tons of coke, and the whole of the Lorraine basin used about 16 per cent of French coke; the remainder was supplied almost entirely from Westphalia.

The situation has not been greatly altered by the Treaty of Versailles, for the sources from which the blastfurnaces in the Lorraine area obtained their coke have mostly remained outside the French frontiers. The re-incorporation of Alsace-Lorraine in France has indeed afforded fresh means of iron and steel production and a corresponding supply of ore, but only a very slight addition to the available amount of coke. ¹

Coke-works have been established during the last few years in the east of France. They help to improve the situation, for it is not essential to supply them with the best German coal, as the best English, French or Dutch coal is quite suitable. Our iron-mining area in Lorraine is thus less dependent on German coke, and eventually we shall not be compelled to obtain coke from the Ruhr except in small quantities.

* *

Before 1914 practically no relations existed between the undertakings on either side of the Franco-German political frontier; the trade between the two groups was very small, and both sides had their own home market.

With one exception, the iron and steel works in German Lorraine were closely connected with those in the Saar or Westphalia, which they supplied with a large share of their production of pig iron and raw steel, or of roughly cast steel. The

¹ The mines in the Saar are of no great help, as they supply a type of fuel which does not produce the very hard coke necessary for the large metal furnaces in Lorraine. In recent years experiments have been made in the manufacture of coke from Saar coal, and highly interesting results have been obtained. It has not yet been possible to apply them on a large scale, however; in any case, as the output of the Saar Basin is very small as compared with demands of the Lorraine metal industry, it would be vain to hope that the latter could, even under the most favourable circumstances, obtain all the fuel or coke it requires from the Saar.

former were to some extent complementary to the latter. They did not in themselves constitute a self-contained whole; they did not carry out the transformation of the wrought metal far enough or in a sufficient variety of terms to produce the whole or almost the whole range of metallurgical products which would have enabled them to appeal to a varied clientèle and so secure, through the diversity of their manufactured articles and the number of their markets, a regular supply of orders.

Out of a total production of 3,870,000 metric tons of pig iron, 432,000 metric tons of semi-manufactured products for sale and 1,495,000 tons of finished steel products, the works in German Lorraine in 1913 sold, within the present limits of the Reich, 836,000 metric tons of pig iron, 490,000 metric tons of semi-manufactured products and 577,000 metric tons of finished products, *i.e.*, approximately 50 per cent of their total output of steel.

These facts explain the magnitude of the task and the difficulties of the problem which arose when, at the height of the post-war economic crisis, the recovered factories in Alsace-Lorraine were suddenly cut off from the works whose means of production they supplemented and with which they shared the German home and export markets. They found themselves suddenly brought into contact with the iron and steel works in French Lorraine, and were obliged to come to an arrangement with them to regulate the sale of their respective products on the home and foreign markets which were now common to both of them. The situation demanded careful handling, because the works within the pre-war boundaries of France and the recovered works used the same raw material and the same methods, and turned out products which were largely similar, and because the capacity of absorption of the French home market had not increased proportionately with the capacity of production in our metallurgical area in Lorraine. In spite of the difficulties involved, the task now appears to have been accomplished: the works in the former Alsace-Lorraine have completely adapted themselves to the new situation and have acquired a clientèle, or, rather, have created an entirely fresh one, for the strong commercial organisation in Germany which concentrated the sale of the entire output of the German iron and steel works amongst a few collective selling organisations, forbade all direct contact between the producing works and the consumer. The best proof of the results obtained is supplied by the activity of the Lorraine metallurgical area in 1925, which was higher than any realised in the past -6,815,000 metric tons of pig iron and 5,067,000 metric tons of half-finished or finished steel products. As in the past, the Lorraine metal continues to hold an important place on the international market, for our Lorraine works alone supply practically the whole French export.¹

¹ French exports.

xports.		
-	Pig iron	Half-finished products or finished steel products
	Thous	ands of metric tons
1921	670	828
1922	730	1,106
1923	613	1,366
1924	783	1,824

The official statistics for 1925, comprising the total exports of France and the Saar, give no figures comparable with the above, but the exports of France proper for 1925 were practically equal to those for 1924 as regards cast iron, and must be approximately 2,300,000 metric tons for steel.

The Lorraine area necessarily feels the keen competition which obtains on the international steel market. Moreover, its geographical position constitutes a distinct handicap in the struggle against the neighbouring Continental metallurgical areas. The Lorraine factories are further from the principal points of access to the sea, and have to pay heavier freightage for transporting their products by rail to the ports of embarkation.

Nor can they derive full advantage from the excellent means of communication provided by the waterway of the Rhine towards the coast or the centre of Europe. As they are not directly connected with navigable waterways, the iron and steel are compelled first to load on rail and then to tranship. Transhipment costs are always heavy in the case of metallurgical products on account of their weight and cumbersomeness, and soon cancel any advantage that might accrue from the use of a system of combined transport. The canalisation of the Moselle above Metz, a canal from the Moselle to the Saar and the construction of the Nord-Est canal are schemes for establishing direct communications by waterway between the whole metallurgical area of Lorraine and the districts round Paris, the north of France and the main ports. The existing economic conditions and the magnitude of the operations will prevent these schemes from being put into speedy execution, and accordingly our metal industry in Lorraine cannot look for any improvement in its situation in the near future.

Extract from OBSERVATIONS ON THE BRITISH IRON AND STEEL INDUSTRY

Submitted by the National Federation of Iron and Steel Manufacturers.

Communicated by Sir Arthur BALFOUR.

1. PRELIMINARY SURVEY OF THE ESSENTIAL CONDITIONS GOVERNING THE DEVELOPMENT OF THE IRON AND STEEL INDUSTRY.

In recent years the essential feature of the British iron and steel position has been the expansion in the steel-making capacity which took place during the war. This had the effect of improving immeasurably the equipment and efficiency of British steelworks practice. Considerations of time rendered it impossible to expand and improve blastfurnaces to the same extent and the lack of balance resulting from a big expansion of steel-making capacity and a very much smaller increase in blastfurnace capacity was met in various ways, *e.g.* by the increased use of scrap, by severely restricting exports of pig iron, and by the restricted production of iron other than for steel-making. If the demand for steel were to increase up to the present level of capacity and the demand for forge- and foundry iron and for pig iron for export approached again the demand of 1913, it is probable that it would be difficult to meet the demand of steelworks for pig iron from home sources. The fact that, except in 1920, demand for steel has not approached the war production is due to many causes which have often been dealt with, but may be briefly summarised as follows:

1. Although it is believed that there is an immense potential demand, a world impoverished by the war could not make this demand effective. The belligerent countries which before the war supplied capital for the development of the newer countries were no longer in a position to do so, and much development work had to be postponed.

2. In the struggle for such effective demand as was in existence, Great Britain was handicapped in competition with the Continent by reason of one or more of the following factors:

- (a) Depreciated exchanges.
- (b) Lower labour costs.
- (c) European tariffs.
- (d) Export bounties.
- (e) Lower railway rates.

The production of pig iron in 1925 was therefore only at 52 per cent and that of steel 61.5 per cent of capacity. In this connection it should be stated that the improved efficiency due to the wartime extensions enabled prices to be reduced until in April 1926 they were only 17 per cent above pre-war, but that the advantages enjoyed by Continental competitors were such as to render even prices so low as those to which prices had been reduced by Great Britain unattractive to consumers. It is also suggested that one effect of cut-throat competition, which has existed for so long, whereby there has been no stable price level, has been to cause buyers to hold off in the hope that prices might fall still further.

Information regarding the output of rolled products is not available for 1913, so that it is not possible to measure the differences in the output of the various rolled products. Broadly it may be stated that the effect of the submarine campaign during the war was to increase the plate-making capacity of the country very considerably, and that this was still further increased as the result of the shipbuilding boom in 1920, but the slump in shipbuilding has caused a corresponding slump in the demand for ships' plates, and the output of plates is now less than before the war, as the reduction in the demand for ship's plates has not been made good by the increased demand for plates for tube-making and other purposes.

While the demand for heavy plates has decreased since the war, the production of thin plates has increased considerably, since the export demand for tin plates and galvanised sheets is higher than in 1913 and the home demand for thin sheets, other than galvanised and tin plate, has been affected by the vast increase in the output of motor-cars. The output of structural material is in excess of pre-war on account of the increase in building and structural work. The production of railway rails is considerably less than before the war, but most if not all of the deficiency is due to the export trade, the development of the newer countries being handicapped by conditions described above.

The actual home consumption of steel in recent years has been slightly in excess of pre-war, and the fact that this has not involved an increasing production of iron and steel is due to increased imports on the one hand and decreased exports on the other.

2. OUTPUT CAPACITY.

The capacity for production of pig iron is now about 12,000,000 tons per annum compared with approximately 11,000,000 tons before the war, while the capacity for steel ingots and castings is in the neighbourhood of 12,000,000 tons compared with rather more than 8,000,000 tons in 1913.

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ANNEX VI.

INTERNATIONAL STEEL AGREEMENT.

SHARE QUOTAS IN THE INTERNATIONAL STEEL AGREEMENT.

INTERNATIONAL STEEL AGREEMENT

September 30th, 1926.

Article 1.

Each country shall pay 1 dollar monthly into a common fund for each ton of crude steel actually produced.

By the term "crude steel" is meant all the crude steel manufactured in the several countries by the Thomas, Bessemer, Siemens or Martin processes, by the electric crucible, or any other process. This sum shall be credited to the account of the country in question. The first time, it shall be paid two months after the present Agreement comes into effect in the form of drafts at three months; for subsequent months it shall be paid on the 25th of the month following in the form of a draft at three months.

Should the Government of one of the countries participating in the Agreement object to the transfer of all or any of the sums payable under the present Article, the actual payment might be replaced:

(1) By the guarantee of a bank approved by the Managing Committee; or

(2) By a cash payment into a blocked account at a bank situated in the country in question and approved by the Managing Committee.

Article 2.

The administration of the common fund shall be provided for by a Managing Committee of four members appointed respectively by each of the countries Parties to the Agreement, *i.e.* Germany, Belgium, France, and Luxemburg. Each of these four countries shall also appoint two deputy members to replace the permanent member in the event of his being absent or unable to attend.

The chairmanship of the Managing Committee shall be held for one year by each of the countries concerned in rotation.

In a general way, and in addition to the special provisions laid down in the Articles following, the Managing Committee shall make the necessary arrangements for carrying out the execution of the clauses of the present contract and for exercising the supervision which it entails. It shall also have full powers for the administration, handling, and custody of the monies paid into the common fund or held by it. The number of votes of the Managing Committee shall be allotted in accordance with the quotas.

Article 3.

The Managing Committee shall fix the quota of each country for each quarter in accordance with the provisions of Article 4 not later than a fortnight before the beginning of that quarter, by applying coefficients — fixed once for all for each country — to the total tonnage representing the probable demand of the market.

Article 4.

The coefficients allotted to the different countries can only be modified by unanimous consent. The total quarterly tonnage, and accordingly the quotas of each country, shall be fixed by a two-thirds majority of the votes, each country commanding the number of votes proportional to its participation, with the proviso that unanimity of all the countries but one shall constitute a sufficient majority even if this latter country represents more than a quarter of the votes.

The Saar shall never vote individually; its votes shall be divided between France and Germany in their ratios of one-third and two-thirds.

Article 5.

Every month each country's actual net production of crude steel during that month shall be ascertained, in relation to the figures indicated by the quotas.

Article 6.

If the quarterly production of a country exceeds the quota which was fixed for it, that country shall pay in respect of each ton in excess a fine of 4 dollars, which shall accrue to the common fund, in addition to the payment provided for in Article 1.

Article 7.

If the production of any country has been below the quota allotted to it, that country shall receive in compensation from the common fund the sum of 2 dollars per ton short.

The tonnage entitling to compensation may not, however, exceed 10 per cent of the quota fixed for the quarter in question. If a shortage of 10 per cent or more below the quota fixed continues during several successive quarters, the tonnage entitling to compensation shall be reduced by two per cent for each successive quarter, so that in the second quarter of such shortage of 10 per cent or more the compensation paid shall not exceed 8 per cent, and in the third quarter it shall not exceed 6 per cent, and so on.

In the event of *force majeure*, the General Meeting of the several groups shall decide by a majority vote the amount of the compensation payable.

Article 8.

The accounts shall be balanced quarterly, the excess contributions and sums due in compensation mentioned in Articles 6 and 7 being payable immediately after the balance of accounts.

At the close of each half-year, the common fund shall be liquidated, after deduction of the general expenses; the remaining balance shall be distributed between the several countries:

(1) In proportion to the actual production during the accounting period, up to the limit of the payments made under Article 1; (2) And, if any balance remains over from fines, in proportion to the participation figures of the accounting period concerned.

The first liquidation of the common fund shall take place on April 1st, 1927.

Article 9.

The present Agreement shall terminate on April 1st, 1931. Up to May 1st, 1929, however, any country shall be entitled to give notice of withdrawal from the Agreement on October 31st, 1929, in which case the other countries shall be released from all obligations on the same date.

Article 10.

The present Agreement was concluded on the assumption that throughout its duration the tariff rates applicable to iron and steel products imported into Germany would not be increased. If Germany should proceed to increase the said rates, the present Agreement may be denounced at any time by each of the Contracting Parties at three months' notice, and each of the Parties shall then recover full liberty of action in relation to its Government as regards tariffs.

The present Agreement, however, may be denounced at any time on and after April 1st, 1927, at three-months' notice, if the Government of one of the Contracting Parties objects to it on the ground that, in the absence of a commercial treaty, one of the other countries is applying unfavourable treatment to the products as a whole.

If Germany or France denounces the present Treaty for one of the two reasons mentioned above, they shall also have the right to denounce it as against the other Contracting Parties, who, in turn, shall be entitled to denounce it *inter se*.

Article 11.

Exchange in respect of the quotas of the countries are not allowed in the case of any company or *Konzern* unless that company or *Konzern* possesses and operates undertakings in another country. Ownership or at least 40 per cent of the share capital of these undertakings shall constitute possession.

Previous notice of such transfers must be given to the Managing Committee. The transfer cannot take effect until the beginning of the next accounting period, and must apply at least for that period.

Article 12.

If on April 1st, 1927, the total consumption has not increased to such an extent that the Luxemburg group shall have obtained a quota of tonnage representing a minimum annual production of 2,360,000 tons, and on April 1st, 1929, tonnage representing a minimum annual production of 2,480,000 tons, that group shall be entitled to withdraw from the present Agreement at three months' notice. It shall then be open to the other countries also to withdraw from the present Agreement.

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Article 13.

Any disputes arising between the Parties as to the interpretation and carrying out of the present Agreement shall be compulsorily settled by arbitration.

Article 14.

It shall be open to steel manufacturers in the other European countries to join in the present Agreement.

Admission shall be sanctioned by the General Meeting:

(1) By a majority vote if participation is determined on the basis of the production of the first quarter of 1926;

(2) Unanimously, if admission is granted on some other basis.

If the participation of the participating countries in the total production of the European countries for any one half-year is 5 per cent less than the same participation during the first quarter of 1926, the rescission of the present Agreement may be demanded by any one of the groups Parties to the Agreement, to take effect after three months' notice, which must be given not later than three months after the expiration of the half-year under consideration.

The Agreement may also be rescinded by any one of the countries Parties to the Agreement at three months' notice in the event of the total figure fixed for any one half-year being less than 13,139,000 tons. In this event, the notice of rescission must be given within a month.

SHARE QUOTAS IN THE INTERNATIONAL STEEL AGREEMENT.

Note transmitted by Dr. C. LAMMERS.

In fixing the share quotas of the individual countries in the International Steel Agreement, the basis taken was that of an aggregate annual production of raw steel of 25,278,000 tons and the annual quotas were fixed on this basis as follows:

								%
Germany	•		•	•	•	•		40.45
France		•		•				31.89
Belgium			•				•	12.57
Luxemburg								8.55
Saar Territory								6.54

These participation figures are changed if the total output rises by 1, 2, 3 or 4 million tons up to 29,278,000 tons. Above this figure the final quotas are as follows:

									- %
Germany		•	•	•	•			•	43.18
France	•			•		•	•		31.18
Belgium					·	•	•		11.56
Luxemburg									8.30
Saar Territory									5 .7 8

In the event of any further increase in output, these percentage quotas will remain unchanged. Belgium, however, on joining the International Steel Trust, was granted a fixed quota of 295,000 tons per month irrespective of any restriction which might be imposed on output. As a consequence, the quotas of the other countries were somewhat reduced.

In November 1926, the total output of the International Steel Cartel for the fourth quarter of 1926 was fixed at 29,278,000 tons. In December 1926, by a resolution of the International Steel Cartel, it was decided to reduce the output for the first quarter of 1927 by 1.5 million tons. In March 1927 this reduced output was once more raised by 1.5 million tons for the second quarter of 1927.

At the beginning of 1927, Czechoslovakia, Austria and Hungary joined in the International Steel Agreement. These three countries together received a share of 7.272 per cent, or 2.14 million tons, annually on the basis of a total output by the International Steel Cartel of 27,278,000 tons. These three Central European countries having joined the Cartel as a single unit, the distribution of their quota between them is a matter to be settled by themselves.