LEAGUE OF NATIONS

ECONOMIC AND FINANCIAL SECTION

MEMORANDUM

ON

PRODUCTION AND TRADE

1923 TO 1928/29

Geneva, June 1930.

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LEAGUE OF NATIONS

MEMORANDUM ON PRODUCTION AND TRADE 1923 to 1928-1929.

Errata.

Page 8. — Note :

After "1913 was employed " read " as base ".

Page 25. — Table VIII, indice for foodstuffs 1928: For "103" read "108".

Page 41. — Table XIII (b), column 6:

For "output in 1929 as percentage of that in 1915" read "output in 1929 as percentage of that in 1925".

Page 59. — Line 4.

For "205 metric tons" read "220 metric tons".



LEAGUE OF NATIONS

Geneva, June 1930.

ECONOMIC AND FINANCIAL SECTION

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Series of League of Nations Publications II. ECONOMIC AND FINANCIAL 1930. II. 8.



CONTENTS.

																				Page
Preface	• •••	•	•	•	•	•	•	•	٠	۰	•	•	•	•	•	•	•	•	٠	5
Introduct	ory .	•	•	•	•	٠	•	•	•	•	٠	٠		•	•	•	•	•	•	7
І. Рорц	JLATIO	N (19	926	and	11	928)	٠	٠	•	•	•	•	•		•	•	•	•	12
II. PROI	OUCTIO	N (1	923	-192	28/2	29)	•	•	•	•	•	•	•	•	٠	٠	•	•	•	14
III. TRAI	DE (19	26-1	928/	29)	•	٠	•	•	•	•	٠	•	•	•	٠	•		•	•	30
IV. INDU	STRY	(192	5-19	929)		•	•	•	•	•	۰	•	•	•	۰	•	•	•	•	3 5
V. THE	RELA	TIVE	Mo	VEI	MEI	NTS	IN	TH	Œ	Pric	CES	OF	RA	W	Pre	ODU	ICTS	Aľ	D	
N	IANUF.	ACTU	REI	A	RTI	CLE	s (191	3	and	19 2	6-1	929).	•	•	•	•	•	62
Annexes		•	•		•			•		•			•		•		•	•		77

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PREFACE.

The first *Memorandum on Production and Trade* was published in October 1926 as one of the preparatory documents for the World Economic Conference. The Conference expressed a wish that the work then undertaken should be continued and two editions of the Memorandum have since been published. This fourth volume covers the period 1923-1928, but preliminary results for 1929 are also furnished.

The base period adopted in the preceding editions was 1913 or the quinquennium 1909-1913. In the present edition, 1926 has been substituted as the base year in the chapters on production of foodstuffs and raw materials, trade and population, and new series of relative numbers and indices have been calculated. For the sake of continuity, however, indices based on 1913 are also given in the annexes.

As the result of a recommendation of the Economic Consultative Committee at its last session, that the Economic Organisation of the League "should continue and expand its studies concerning the comparative prices of agricultural and industrial products", a special enquiry into the recent relative movements of such prices has been undertaken and is at present being pursued. For the purposes of this enquiry, the results of which it is hoped to publish before next year's meeting of the Consultative Committee, the year 1913 is being taken as base. It has, therefore, been thought advisable to maintain 1913 as the base period in the price chapter contained in the present volume.

The study of certain aspects of manufacturing industry, which is included for the first time in this volume, is the outcome of a resolution adopted by the Assembly of the League of Nations at its last session. The Assembly requested the Council to "consider the possibility of arranging for the preparation of a comprehensive annual survey of economic developments in the near future and for the collection by the Economic Organisation of all the information required for this purpose". On the advice of the Economic Committee, the Council decided that the preparation of a general and separate survey of economic conditions should be postponed until after the International Convention relating to Economic Statistics has come into force. At the same time, it gave instructions that, as a provisional measure, a chapter dealing with such information concerning the development of industrial activity as is now available should be prepared for the next edition of the Memorandum on Production and Trade. This study, tentative and incomplete as it is, forms a useful complement to the chapter on the production of foodstuffs and raw materials and is helpful when checking the conclusions regarding the recent development of the world's industrial output, to which the returns for raw products point. It covers in general the period 1925-1929: the year 1925 is adopted as base.

The detailed figures on which the indices for population and the production of foodstuffs and raw materials are based, will be published simultaneously with this volume in the International Statistical Year-Book, 1929. Those relating to trade have already appeared in the Memorandum on International Trade and Balances of Payments, 1926-1928, Volumes I and III.

A summary of the main conclusions that may be drawn from the present study will be found in the introductory chapter.

A. LOVEDAY.

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Geneva, June 1930.

INTRODUCTORY.

The general form and composition of this Memorandum is similar to that of the editions published in earlier years, except for the addition of the chapter on industrial production to which reference is made in the preface.

One important change has, however, been made. The base year for the calculation of the indices of foodstuffs and raw materials contained in Chapter II, and of international trade contained in Chapter III, has been changed from 1913 (or the quinquennium 1909-13) to 1926. This later year is not wholly satisfactory as a base period as it was affected by the British coal dispute. But it is perhaps preferable to the preceding year in which the range of price movements was relatively wide and tended, therefore, to affect the accuracy of the trade figures.

The year 1926, however, while preferable for the international trade figures and therefore for the indices of raw material production which are compared with them, is not well suited for use as a base period when considering the output of individual industries. It has been thought preferable, therefore, even at some sacrifice of comparability between Chapter IV and those which precede it, to employ for this purpose the year 1925. This system has the additional advantage in that, since fairly complete preliminary data concerning industrial output are available for 1929, it thus became possible to cover the whole of the quinquennium ending in that year.

In Table I below, the most important indices relating to population, the production of raw materials and foodstuffs and the quantum of trade are set out in parallel columns. The indices for both production and trade are quantitative, changes in value having been eliminated by processes of analysis described later. The world has been divided into seven continental groups and Europe into three sub-groups.

TABLE I.

GROWTH OF POPULATION, PRODUCTION AND TRADE OF THE WORLD 1926-1928.

(E	ase	:	19	26		1(00
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Continental groups	Popula- tion Prod. of foodstuffs and raw materials			Quantum of trade		
	1928	1927	1928	1927	1928	
(a) Eastern & Central Europe : Excluding Russia (U.S.S.R.) Including Russia (U.S.S.R.)	$\begin{array}{c} 102 \\ 103 \end{array}$	111 105	120 111	$\begin{array}{c} 124 \\ 123 \end{array}$	130 129	
(b) Rest of Europe. \ldots \ldots \ldots	101	118	118	109	112	
Europe, excluding Russia (U.S.S.R.)	102	115	119	113	117	
Europe, including Russia (U.S.S.R.) North America Caribbean South America Africa Asia, excluding Asiatic Russia ¹ Oceania	$ \begin{array}{r} 102 \\ 102 \\ 105 \\ 103 \\ 101 \\ 103 \end{array} $	$ \begin{array}{r} 110 \\ 99 \\ 96 \\ 115 \\ 103 \\ 102 \\ 100 \end{array} $	113 104 102 121 107 105 104	$ \begin{array}{r} 113 \\ 102 \\ 102 \\ 113 \\ 111 \\ 100 \\ 105 \\ \end{array} $	$ \begin{array}{r} 117 \\ 107 \\ 96 \\ 119 \\ 122 \\ 98 \\ 101 \end{array} $	
World	102	A 105 B 103 C 107	108 108 109	108	111	

A = Foodstuffs and raw materials; B = Foodstuffs; C = Raw materials.

¹ Excluding production of foodstuffs in China.

Note. - In order to afford a link with the preceding editions of this Memorandum in which the year 1913 was employed, the following table has been prepared.

Continental groups	Popula- tion	Producti	ion of foods w materia	tuffs and ls	Quantum of trade		
	1928	1926	1927	1928	1926	1927	1928
(a) Eastern & Central Europe : Excluding Russia (U.S.S.R.) Including Russia (U.S.S.R.)	$\begin{array}{c} 105 \\ 108 \end{array}$	92 100	100 103	108 109	86 76	106 94	111 99
(b) Rest of Europe ¹ \ldots \ldots \ldots	107	99	115	114	101	110	112
Europe excluding Russia (U.S.S.R.) 1 .	106	96	107	111	96	109	112
Europe including Russia (U.S.S.R.) ¹ North America Caribbean South America Africa Asia, excluding Asiatic Russia ² Oceania	$108 \\ 126 \\ 108 \\ 143 \\ 110 \\ 107 \\ 125$	99 130 153 133 140 118 128	$ \begin{array}{r} 107 \\ 128 \\ 147 \\ 150 \\ 145 \\ 122 \\ 129 \\ \end{array} $	$ \begin{array}{r} 110 \\ 135 \\ 158 \\ 156 \\ 152 \\ 124 \\ 133 \end{array} $	$\begin{array}{r} 92\\152\\136\\107\\110\\154\\136\end{array}$	$ \begin{array}{r} 104 \\ 154 \\ 138 \\ 120 \\ 125 \\ 153 \\ 143 \end{array} $	$ \begin{array}{r} 107 \\ 162 \\ 131 \\ 127 \\ 133 \\ 150 \\ 138 \\ \end{array} $
World	110	A 116 B 109 C 128	$ \begin{array}{r} 120 \\ 111 \\ 136 \end{array} $	$125 \\ 116 \\ 140$	112	121	124

(Base : 1913 = 100)

A = Foodstuffs and raw materials; B = Foodstuffs; C = Raw materials.

¹ In calculating the *quantum* figures for trade on the base 1913 = 100 the Netherlands have been left out of account owing to incomparability of pre- and post-war statistics. ² Excluding production of foodstuffs in China.

The group of Central and Eastern European countries here and elsewhere in this Memorandum consists of Albania, Austria, Bulgaria, Czechoslovakia, Estonia, Germany, Greece, Hungary, Latvia, Lithuania, Poland, Roumania, U.S.S.R., Yugoslavia and European Turkey.

The whole of the present Union of Soviet Socialist Republics is incorporated in Europe in all the calculations. The absolute figures from which the various indices have been calculated, therefore, are all somewhat too low in the case of Asia and too high in the case of Europe. The procedure adopted was unavoidable, as under the new administrative system the old line of division between Asiatic and European Russia has been abolished and all production figures available refer to the whole Union, including the territories in Asia. The population to-day of what used to be considered as Asiatic Russia is probably over 30 million persons.

The Caribbean group comprises the continental States from Mexico in the north to Panama in the south and all the islands in the Gulf; the North American group is composed of Alaska, Canada, Labrador, Newfoundland and the United States.

The evidence afforded by the table and later analysis points to the following general conclusions, certain of which will require subsequent interpretation and qualification :

(a) World population in 1928 was about 10 per cent greater than in 1913, world production of foodstuffs and raw materials was about 25 per cent greater, and world trade about 22 per cent greater. The corresponding increases since 1926 have been about 2 per cent, 8 per cent and 11 per cent.

World production and trade developed considerably in 1928, and, according to the preliminary information available, further headway was made in 1929.

(b) The growth of world population between 1926 and 1928 may be estimated at approximately 35 millions — an average increase of about 1 per cent per annum. The rate of increase was highest in South America.

(c) In recent years the world production of foodstuffs has increased at a somewhat slower rate than that of industrial raw materials. The discrepancy was considerably reduced in 1928 as a result of the exceptionally heavy food crops, but it was again accentuated in 1929, for which the provisional indices based on 1926 were 106 for foodstuffs and 117 for raw materials.

(d) Such statistical information as is available suggests that the manufacturing industry has progressed more rapidly than the production of industrial raw materials in recent years. Year by year, new economies in industrial processes are effected and a larger product is obtained from a given supply of raw materials. The iron and steel industry, the mechanical industry (including engineering, shipbuilding and automobile manufacture) and the electrical industry would appear to have raised their production between 1925 and 1929 by 25 pcr cent or more. In the textile group, the relatively slow development of the cotton and wool industries has been only partly offset by an increase in the output of natural and artificial silk. The production of electricity increased by about one-third during the period 1925-1928.

(e) International trade was stimulated in 1927 and 1928 by considerable capital movements, largely due to the demand arising from the reorganisation of industry in Europe and industrial development in other parts of the world. It would appear that, in spite of a heavy fall in the general price level, there was a further increase in the value of trade in 1929.

(1) Since 1926, Europe has continued to make rapid progress. The increase in the production of foodstuffs in Europe, excluding Russia, in the period 1926 to 1928, was greater than in any other part of the world. The rate of growth in the output of raw materials was exceeded only in South America. The expansion of international trade in Europe, as a whole, between 1926 and 1928, was less than in Africa and in South America, but the indices for the Eastern and Central European group of countries were the highest in the world.

(g) In North America, new records in production and trade were reached in 1928. But the rate of advance in both since 1926 has been slower than in Europe. Indeed, the raw material output was higher in 1925 than in the two succeeding years, and the rise in the general production index for 1928 was exclusively due to exceptionally good harvests. On the other hand the national indices of industrial production for Canada and the United States show continuous progress in manufacturing activity in 1928 and during a large part of 1929. Towards the end of the latter year, however, production fell off here and elsewhere.

(h) The production of foodstuffs and raw materials in South America grew between 1924 and 1928 more rapidly than in any other part of the world, and trade developed at an almost equal rate. It would appear, however, that this progress was not maintained in 1929.

(i) In Africa, production has made steady but relatively slow progress. On the other hand, the increase in African trade in 1927 and 1928 was second only to that of Eastern and Central Europe.

(j) The indices for Asia point to a development in production similar to that of Africa, but foreign trade declined in 1927 and again in 1928.

(k) Oceania has made little advance in recent years. Production remained stationary in 1926 and 1927 and increased only slightly in the following year; trade, after a 5 per cent increase in 1927, returned almost to the 1926 level in 1928.

(l) Compared with 1913, the prices of manufactured articles taken as a group appear to have remained, in 1928 and 1929, relatively higher than those of raw materials and foodstuffs, at any rate in Europe.

(m) The discrepancy between the two groups of prices since 1926 has been less pronounced than in earlier post-war years. On the other hand, the indices for the last two or three years show no further tendency to approach one another.

(n) It would appear that, between 1926 and 1928, agricultural produce ruled generally higher in price than raw products of the extractive industries, but that the position was largely reversed in 1929 as a result of the heavy fall in the prices of cereals and textiles.

Such are the broad general results to which the analysis of available data on population, production and trade has led. They are based on statistics that are in some cases of doubtful comparability and seldom so comprehensive or so exact as to render it possible to draw conclusions of mathematical accuracy or incontrovertible finality from any single series of figures. For this reason, importance should be attached not so much to the absolute magnitude of this or that figure as to the direction towards which the whole mass of accumulated data tends to point.

I. POPULATION.

The figures relating to population, which are confined to the years 1926 and 1928, are given in this Memorandum only with a view to comparing the growth of population with the indices of production of foodstuffs, raw materials and international trade. It is not necessary, therefore, to consider in any great detail the demographic statistics of the world.

TABLE II.

CHANGES IN THE POPULATION OF THE WORLD IN THE PERIOD 1926-1928.

Continental groups	Pop (000	ulation ,000`s)	Perc	entage ement	Percentage distribution		
	1926	1928	1926	1928	1926	1928	
(a) Eastern and Central Europe :							
Excluding Russia (U.S.S.R.)	171.3	174.7	100	102.0	8.9	8.9	
Including Russia (U.S.S.R.)	318.3	328.7	100	103.3	16.5	16.7	
(b) Rest of Europe	195.0	197.3	100	101.2	10.1	10.1	
Europe, excluding Russia							
(U.S.S.R.)	366.3	372.0	100	101.6	19.0	19.0	
Europe, including Russia					-		
(U.S.S.R.)	513.3	526.0	100	102.5	26.6	26.8	
North America	127.8	130.8	100	102.3	6.6	6.7	
Caribbean	31.8	32.4	100	101.9	1.7	1.6	
South America	76.0	79.8	100	105.0	3.9	4.1	
Africa	140.0	143.5	100	102.5	7.3	7.3	
Asia (excluding Asiatic Russia)	1,028.4	1,040.3	100	101.2	53.4	53.0	
Oceania	9.2	9.5	100	103.3	0.5	0.5	
World	1,926.5	1,962.3	100	101.9	100	100	
WORLD (excluding China).	1,467.8	1,503.6	100	102.4		-	

The figures on which the calculations are based are frequently open to doubt. In many Asiatic and certain other countries, no regular census of population is taken, and even the census figures of the native population in Africa, South America, as well as other parts of the world, are often conjectural in character. Moreover, censuses are usually taken at long intervals and often at different years in the various countries, so that the majority of the figures are official or unofficial intercensal estimates. The information concerning China is particularly defective; the different estimates which have been made vary to a very appreciable extent. As the population of China represents some 23 per cent of the world's total, the calculations for the world as a whole are necessarily approximate. In the table given above it has been assumed that the Chinese population has remained stationary between 1926 and 1928.

In view of these facts it is perhaps desirable to consider the world figures both with and without China. If China is excluded, the annual increase amounted to nearly 18 millions, or about 1.2 per cent. If the Chinese population (458.7 millions) is included, the absolute increase is the same, but the annual rate of increase drops to under one per cent.

The figures for Europe (plus Asiatic Russia) are largely influenced by the U.S.S.R., which accounts for about 29 per cent of the total and has a national increase much in excess of the European average. If the U.S.S.R. be excluded, Europe shows a smaller advance than any other continent except Asia. The low Asiatic figure, however, is largely due to the fact that no change in population is indicated for China. The rate of growth in Europe without U.S.S.R. is lower than in Asia excluding China.

The population of the whole American continent has advanced during the two years under review by 3.1 per cent. The Caribbean population has shown a very low rate of increase over the whole post-war period. On the other hand, so far as can be judged from the confessedly imperfect statistics available, the population of South America continued to increase considerably more rapidly than that of any other continent, namely, by 5 per cent in the two years. With this may be compared 3.3 per cent in Oceania.

The rate of growth of the population in Africa is the same as that of Europe including the U.S.S.R. The Asiatic countries, other than Asiatic Russia and China, represent only about 53 per cent of the presumed total for this continent; their average rate of increase in the two years concerned has been 2.1 per cent.

Although the populations of the various continental groups given have thus increased at very varying rates, the period reviewed is too brief for this fact to have had any substantial effect upon the distribution of population and, indeed, the share of Asia and Europe together, where the rate of increase has been slowest, is so great, amounting to about 80 per cent of the total, that the influence on distribution of such variations in rates can only very gradually make itself felt.

II. PRODUCTION.

Very few countries publish comprehensive information concerning the output of industry, and it is impossible from the evidence available to obtain any accurate conception of the changes which have taken place in world industrial capacity or productivity. It is necessary, therefore, to approach the question indirectly and consider the figures of the production of raw materials and crude foodstuffs if a synoptic view is desired. Changes in the volume of raw materials produced, however, are not necessarily coincident with changes in the volume of industrial output. The science of industrial production is concerned largely with the discovery of means by which equal services may be rendered with a smaller consumption of crude products.

Moreover, the statistics of the production of raw materials taken alone and without reference to variations in stocks may fail to reflect accurately changes in industrial activity. The supplies of vegetable raw materials in a single year will depend primarily on the atmospheric conditions and not on the immediate industrial demand. The indices which are given below, therefore, should be interpreted with these facts in mind.

In order to measure the changes in the aggregate production of the world and its main territorial divisions by this means, it is necessary to take into account the output of a large number of different commodities. Owing to the multiplicity and variety of goods that require to be considered, the indices based on weight or volume statistics must be rendered comparable by expressing them in terms of some common denominator. It has been necessary, therefore, to calculate a quantitative index. For this purpose, the relative values of the various commodities calculated on the basis of representative price quotations in a defined period have been utilised as constant weights.

The prices employed are annual averages of actual quotations for medium qualities of the various articles in leading producing countries or free markets, and may be considered fairly representative of relative values on the world market. The index is calculated by the aggregative system. A further explanation of the procedure adopted will be found in Annex I, which should be consulted.

For the reasons indicated in the preface, new calculations have been made with 1926 as base. It should be noted that the European production in that year was adversely affected by the British coal dispute and that, therefore, the figures for other years appear higher than they would have been had conditions in the base period been more normal. But the importance of this point should not be exaggerated, for in almost every year prior to 1926 some event of an exceptional character influenced production in one division of the world or another. Moreover, production in Eastern Europe, excluding U.S.S.R., as well as in Western Europe was lower in 1926 than in 1925.

- 14 -

In view of the changes that have taken place in relative values, it has been considered desirable to make double calculations using as weighting coefficients, in the one case, the prices ruling in 1926 and, in the other, prices in 1928. The results obtained from these two methods of procedure in most cases vary but slightly. It is sufficient, therefore, to consider in the following analysis only those obtained by employing the 1926 values as weights. Discrepancies of some little importance do, however, occur in certain groups of commodities composed of articles the prices of which underwent substantial change between 1926 and 1928, and for this reason complete comparative figures are given in the Annexes.

The following sixty-two commodities have been taken into consideration :

ARRIVA OF COMA		
Wheat	Sesame-seed	Pig-iron and ferro-alloys
Rye	Soya beans	Steel (ingots and castings)
Barley	Ground-nuts	Copper
Oats	Copra	Lead
Maize	Palm and palm-kernel oil (raw)	Zine
Rice	Olive oil (raw)	Tin
Potatoes	Cotton	Aluminium
Beet-sugar	Flax	Nickel
Cane-sugar	Hemp	Silver
Beef and veal	Manila hemp	Natural phosphates
Pork	Jute	Potash
Mutton and lamb	Wool	Sulphur
Coffee	Raw silk	Natural guano
Cocoa	Artificial silk	Chilian nitrate of soda
Tea	Raw rubber	Nitrate of lime (Norwegian and
Hops	Mechanical pulp	ammoniated)
Tobacco	Chemical pulp	Cyanamide of calcium
Cotton-seed	Cement	Sulphate of ammonia
Linseed	Coal	Superphosphates of lime
Rape-seed	Lignite	Basic slag
Hemp-seed	Petroleum	Sulphate of copper

LIST OF COMMODITIES INCLUDED IN THE PRODUCTION INDEX.

Owing to the absence of complete or sufficiently representative data, certain classes of products have had to be omitted, the most important being dairy produce and timber. From the metal group, gold has been omitted, as so large a part of the production is used for monetary purposes. The production of certain other metals likewise excluded is probably too unimportant to have any noticeable effect upon the index. For China, no comprehensive statistics of the production of cereals and other foodstuffs exist. The tentative calculations relating to hides and skins given last year have been omitted from the present edition. Their influence on the general indices was, however, of no great significance. Further, no reliable figures of cement production in the Caribbean, South America and Africa are available; but this omission, too, is of very small importance.

Sub-indices have been calculated for the following groups of products : (1) cereals; (2) cereals and other vegetable foodstuffs; (3) meat; (4) colonial produce; (5) vegetable oil materials; (6) textile materials; (7) rubber; (8) wood pulp; (9) cement; (10) fuels; (11) metals; (12) chemicals (fertilisers). The second group

includes the same cereals as the first and also rice, raw sugar and potatoes. Cereals, other food-crops, and meat constitute the "foodstuffs", all other groups the "raw materials". These foodstuffs, plus coffee, tea, cocoa, and hops account for over 60 per cent and the raw materials for just under 40 per cent of the total aggregates on which the general index is based. Any rough division is necessarily largely arbitrary and, in addition to the colonial products mentioned above, some of the oils and fats classed as raw materials are used as food. Taken in conjunction with the omissions mentioned above, this circumstance tends to diminish the relative importance of the production of foodstuffs as compared with the output of raw materials in the following calculations.

It is convenient to show first the general index of foodstuffs and raw materials combined, based on 1926 and weighted by 1926 values for the world as a whole and its main continental groups.

* *

TABLE III.

GENERAL INDICES OF PRODUCTION WEIGHTED BY 1926 VALUES.

Base:	1926	= 100	
-------	------	-------	--

1

Continental groups	1923	1924	1925	1926	1927	1928
(a) Eastern and Central Europe:					1	
Excluding Russia (U.S.S.R.)	84	91	105	100	111	120
Including Russia (U.S.S.R.)	76	81	99	100	105	111
(b) Rest of Europe	102	107	112	100	118	118
Europe, excluding Russia (U.S.S.R.)	93	99	108	100	115	119
Europe, including Russia (U.S.S.R.)	86	91	104	100	110	113
North America	97	90	96	100	99	104
Caribbean	101	110	105	100	95	102
South America	98	91	98	100	114	121
Africa	88	94	100	100	103	107
Asia (excluding Asiatic Russia) ¹	89	94	99	100	102	105
Oceania	86	93	90	100	100	104
World	91	92	100	100	104	108

¹ Excluding production of foodstuffs in China.

Judging from the preliminary information available, the general world index in 1929 appears to have risen to about 111.

The above table requires to be considered in the light of the information furnished in earlier editions of this Memorandum. The apparently very rapid and substantial progress achieved by Europe in the period given represented, until 1925, a recovery of lost ground. In that year, the European index on the base of 1913 stood at 103. The indices of all the other continental groups were very substantially higher — North America 127, Caribbean 162, South America 130, Africa 143, Asia 127, Oceania 118. In 1923, the earliest year shown here, all the indices except that for Europe, which stood at 85, were well above the pre-war level.¹ The rising figures for these continents, therefore, during the whole period 1923 to 1928 represent rather normal progress than recovery.

The figures indicate an almost continuous increase in production, only interrupted in 1926. There was, in the world as a whole, a substantial advance between 1923 and 1925, and again in the two years 1927 and 1928. The total increase during the six years from 1923 to 1929 amounts to 22 per cent, ² which is equivalent to an average rise of 3.6 per cent per annum.

This remarkable development has not been equally shared by all continents. In Europe the rate of growth since 1923 has averaged some 5.8 per cent per annum, while in the rest of the world it was only 2.4 per cent. According to the preliminary information available, this differentiation in the rate of progress continued during 1929. If the U.S.S.R. were excluded from Europe, the differences would be still greater.

Within Europe, somewhat similar tendencies may be traced. On the one hand, the output of foodstuffs and raw materials in Eastern and Central Europe has recovered at an exceedingly rapid rate from the low levels of the early post-war years. The recovery in the U.S.S.R., however, slackened markedly, as the second of the indices in the table shows, in the more recent years under review. On the other hand, the rate of growth in Western and Maritime Europe, although substantial, has been less dramatic than in those countries which initially lost most ground. Moreover, in the last four years, the rate of growth in Western Europe has been relatively slow. The index for 1926, owing largely to the British coal dispute, was lower than in any year of the period considered, the index for 1927 was only 5 per cent greater than that for 1925 and no advance at all was made in 1928. As a result, the old quantitative equilibrium between the two main divisions of Europe has been largely, though not completely, restored. If the U.S.S.R. is omitted from the calculations, the deviation from the pre-war balance is further lessened. This substantial restoration of the pre-war quantitative equilibrium, however, must not be interpreted as implying a similar or equivalent restoration of the pre-war channels or composition of trade.

Of the continents, the development of which represents throughout the whole period a real progress as distinct from recovery, South America, Africa and Oceania record the highest figures; namely, an advance of over 20 per cent between 1923 and 1928. The South American index has been influenced both by the increase in raw material production, to which further reference will later be made, and by the exceptional coffee crops and cereal harvests in 1927 and 1928. It should be borne in mind, however, that the 1926 index was only two points higher than that for 1923. Further, the increase in quantities in the last two years under review undoubtedly exceeded that in values.

¹ In all cases these figures refer to the index weighted by 1913 values and are, therefore, not quite comparable with the figures given in Table III. Comparable figures for the years 1923 to 1928 are given in Annex III.

² Throughout this chapter, the rates of development of production are calculated direct from production aggregates and therefore do not always exactly coincide with the changes indicated by the indices and percentages shown in the tables.

North America hardly maintained the level of production of 1923 in 1925, but advanced in 1926 and again in 1928 by somewhat over 4 per cent, which is considered as the "normal annual rate of expansion of general business" in the United States of America. There has been a net increase over the whole period under review, but the rate of advance has been less than in any of the other groups, except the Caribbean. This last-mentioned group has been adversely affected by the steady decline in the output of petroleum in Mexico, a point to the significance of which further reference is made below.

Certain of the major factors responsible for these relative changes will become clear from an examination of the indices for different groups and sub-groups. Tables IV and V give the indices for foodstuffs and raw materials separately in a manner similar to that adopted in the preceding table.

(Base : $1926 = 100$)											
Continental groups	1923	1924	1925	1926	1927	1928					
(a) Eastern and Central Europe :					-						
Excluding Russia (U.S.S.R.)	94	94	110	100	109	122					
Including Russia (U.S.S.R.)	81	82	101	100	102	109					
(b) Rest of Europe	97	98	108	100	105	106					
Europe, excluding Russia			-	-	-						
(U.S.S.R.) .	95	96	109	100	107	115					
Europe, including Russia											
(U.S.S.R.) .	86	87	103	100	103	108					
North America	109	99	100	100	105	111					
Caribbean	92	110	104	100	97	109					
South America	100	91	98	100	102	108					
Africa	97	100	103	100	111	110					
Asia (excl. Asiatic Russia and China)	96	100	101	100	101	103					
Oceania	86	102	88	100	95	108					
WORLD	95	94	101	100	103	108					

TABLE IV.

FOODSTUFFS PRODUCTION INDICES, WEIGHTED BY 1926 VALUES.

No information is yet available for the production of meat in 1929, but if it be assumed that the rate of growth in that year was the same as the average rate for 1927 and 1928, the world foodstuffs index works out in the neighbourhood of 106. The corresponding index for raw materials is estimated at 117.

Both the production of foodstuffs and the output of raw materials have increased. But the rate of growth of the former has been slower than that of the latter. The average rate of annual increase for foodstuffs from 1923 to 1928 has been 2.6 per cent and for raw materials 4.9 per cent.

The above grouping is, however, not perfect and if colonial products other than tobacco be added to the foodstuffs group, the above rates would become 2.7 per cent and 4.8 per cent.



1. Aggregate Production of Foodstuffs and Raw Materials in the World and in Europe, 1926-1929.

1926 = 100.



2. World Production of Foodstuffs and Raw Materials, 1926-1929.



- 19 -

1926 = 100.



1923 = 100.





1923 = 100.



 Aggregate Production of Foodstuffs and Raw Materials in Europe, 1923-1928.

1923 = 100.

That the production of foodstuffs should have developed less rapidly than that of raw materials is to be expected in all progressive countries after they have reached a certain standard of living. This change of ratio is, indeed, a world-phenomenon which is likely to continue unless a rapid economic development takes place in countries with a relatively low standard of living and a large population. But, as was shown last year, if China be ignored (and she is excluded from the foodstuffs index). the production of foodstuffs per head of population is somewhat greater to-day than it was in pre-war years.

Comparison of Table IV with Table V below will show, however, that the foodstuffs index increased in 1928 substantially more than did that for raw materials. Indeed, the year 1928 was remarkable for the generality of the good harvests reaped. As a result, the carry-over of certain cereals was exceptionally heavy and prices sank.

When considering the indices for the various continental groups, it is again necessary to bear in mind that, in the basic year 1926, very different stages of progress had been achieved. European production was fractionally higher than in the last pre-war quinquennium, while in, for instance, South America and Oceania, it was about one-third higher. In the two first years given in the table, European production was substantially below the pre-war average. It is interesting, therefore, in this connection to note that the increase of foodstuffs was more rapid in Europe than in the rest of the world from 1923 to 1925 (that is, during the years of recovery) but was equal to the world average in the period 1926 to 1928.

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л.	A	D	11	1.1		

RAW MATERIAL PRODUCTION INDICES, WEIGHTED BY 1926 VALUES.

(Base : 1926 =	ŀ	00)
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Continental groups	1923	1924	1925	1926	1927	1928
(a) Eastern and Central Europe :						
Excluding Russia (U.S.S.R.)	65	85	94	100	114	116
Including Russia (U.S.S.R.)	62	80	93	100	113	117
(b) Rest of Europe	108	118	117	100	134	131
Europe, excluding Russia						
(U.S.S.R.)	90	104	107	100	125	125
Europe, including Russia						
(U.S.S.R.)	86	99	105	100	123	124
North America	88	85	92	100	94	98
Caribbean	116	110	106	100	93	92
South America	94	91	- 97	100	134	141
Africa	79	88	98	100	96	104
Asia (excluding Asiatic Russia).	79	86	96	100	105	107
Oceania	86	84	92	100	104	101
WORLD	86	90	97	100	107	109

The rise in the production of raw materials in 1928 was small — less than 2 per cent. But, in the two years 1927 and 1928, it rather exceeded the normal rate of growth. As will be seen from Table VI below, the contributions of the various continental groups to the total production of raw materials in each case vary widely and, despite the exceptionally high South American index, the advance achieved was mainly due to an increase in the general output in Europe, and more especially in Western Europe. This is due in part, of course, to the fact that, in the base year 1926, Western European production fell off, owing to the British coal dispute. But, if comparison is made between 1928 and 1925, it still remains true that Europe contributed more to the world increase in the production of raw materials than did any other continental group. The 1928 index for Europe, based on 1925, amounted to 118; that for the other groups shown in the table only to 109.

It was stated above that the world index for 1929 on the preliminary and incomplete data at present available works out at about 117, showing, therefore, a substantial increase over 1928. This fact helps to illustrate a somewhat interesting characteristic of Table V, namely, the sudden jerks by which progress is achieved. The foodstuff index is more irregular than that for raw materials inasmuch as in some years it increases, in others decreases. It constitutes, however, a much smoother curve. Thus, the raw materials index increased in 1924 by 4.1 per cent, in 1925 by 8.4, in 1926 by 2.8, in 1927 by 6.6, in 1928 by 2.6 and in 1929 by approximately 7.4 per cent.

These figures seem to suggest that the underlying forces of world progress, when temporarily checked by this or that special factor, tend very rapidly to reassert themselves.

Reference was made above to the very rapid progress achieved during the last two years in South America. This must be attributed mainly to the growth of the petroleum industry in Venezuela and Colombia, and to the great improvement in the Chilian nitrate production. The index is, however, also largely influenced by the very large coffee crops in Brazil in the last two years given. With it should be compared the steadily declining index for the Caribbean group, due to the constantly diminishing output of petroleum in Mexico. It should be remembered in this connection that figures for the Caribbean are based largely on exports and not on production. The weight given to petroleum is accordingly exaggerated and the decline in the index shown in Table V is not really representative of the economic conditions obtaining in that part of the world. A much truer picture may be obtained by a careful study of Annex III. Raw material production exclusive of petroleum increased by 10 per cent between 1926 and 1928.

Although production in North America was over 4 per cent higher in 1928 than in 1927, it still failed to reach the exceptional level of the basic year. The index for Oceania declined, being affected particularly by the drop in the production of wool and coal. Those for Africa and Asia rose, and indeed, raw material production in these two continents has increased steadily and almost uninterruptedly during the whole period under review. The extent to which the contributions of the different continental groups to the total volume of production considered have changed in relative importance in recent years is brought out in Table VI. This table gives the average percentage distribution of the aggregate production of foodstuffs and raw materials and of these two groups of commodities combined during the years 1923 to 1925 and 1926 to 1928.

TABLE VI.

PERCENTAGE DISTRIBUTION OF AGGREGATE PRODUCTION OF FOODSTUFFS AND RAW MATERIALS, WEIGHTED BY 1926 VALUES.

		stuffs	Raw m	aterials	Total production		
Continental groups	Average 1923-1925	Average 1926-1928	Average 1923-1925	Average 1926-1928	Average 1923-1925	Average 1926-1928	
 (a) Eastern and Central Europe: Excluding Russia (U.S.S.R.) . Including Russia (U.S.S.R.) (b) Rest of Europe 	16.4 27.2 13.2	17.0 29.9 12.6	9.7 12.1 17.8	$11.3 \\ 14.6 \\ 16.4$	13.5 20.7 15.2	14.4 23.1 14.3	
Europe excluding Russia (U.S.S.R.)	29.6	29.6	27.5	27.7	28.7	28.7	
Europe including Russia (U.S.S.R.)North AmericaCaribbeanSouth AmericaAfricaAsia (excluding Asiatic Russia)Oceania	$\begin{array}{r} 40.4 \\ 24.5 \\ 2.6 \\ 5.8 \\ 2.5 \\ 22.5 \\ 1.7 \end{array}$	$\begin{array}{r} 42.5\\ 23.4\\ 2.4\\ 5.9\\ 2.5\\ 21.6\\ 1.7\end{array}$	$29.9 \\ 39.3 \\ 2.2 \\ 5.1 \\ 3.0 \\ 18.3 \\ 2.2$	$31.0 \\ 37.5 \\ 1.7 \\ 5.8 \\ 2.9 \\ 18.9 \\ 2.2$	35.930.92.45.52.720.71.9	$\begin{array}{c c} 37.4 \\ 29.8 \\ 2.1 \\ 5.8 \\ 2.7 \\ 20.3 \\ 1.9 \end{array}$	
World	100	100	100	100	100	100	

(World total = 100.)

As has been shown above, the most striking feature of the last few years has been the gradual restoration of the balance in Europe between the eastern and central countries on the one hand, and the rest of the continent on the other. This tendency continued almost uninterrupted, year by year, during the period covered by the table. The recovery of the eastern and central countries has further tended to raise the share of Europe as a whole in world production. Although Europe's share is substantially higher to-day than it was in 1923 or 1924, the change since 1925 has been but slight. Indeed, Europe's share in the aggregate of all commodities dropped in 1928 and was only fractionally greater than in 1925.

The complement to this change in Europe's relative position is to be found in a slight tendency for the share of North America to diminish — a tendency which is

more pronounced in the figures for raw materials contained in Table VI. The share of the other continents taken together and the individual shares of Africa, Asia and Oceania have changed but little. South America has gained, and the Caribbean group, for the reasons explained above, has somewhat lost ground.

The indices already examined render it clear that, of the total of the commodities considered, foodstuffs tend to constitute a gradually diminishing proportion. The figures for any single year are naturally influenced by weather conditions, but the nature of this tendency can be appreciated by an inspection of the following table showing the percentage of aggregate values constituted by the two main groups during the three-year period 1923 to 1925, compared with the similar period 1926 to 1928. As stated above, the raw material group necessarily includes some commodities which are used in part for food, as certain products grown mainly for food also have industrial uses. In Table VII, two additional columns are given which show the influence of allocating all colonial products, except tobacco, to the foodstuffs group, where they more properly belong. The figures are all weighted by 1926 values, so that the changes result from alterations in quantities only.

TABLE VII.

SHOWING THE RELATIVE IMPORTANCE OF FOODSTUFFS AND RAW MATERIALS IN AGGREGATE PRODUCTION, WEIGHTED BY 1926 VALUES.

			1					
Continental groups	Food	stuffs	Raw m	aterials	Foodstuffs plus colonial produce ¹		Raw materials less colonial produce ¹	
	Average 1923-1925	Average 1926-1928	Average 1923-1925	Average 1926-1928	Average 1923-1925	Average 1926-1928	Average 1923-1925	Average 1926-1928
 (a) Eastern and Central Europe Excluding Russia (U.S.S.R.) Including Russia (U.S.S.R.) (b) Rest of Europe	$ \begin{array}{r} 69.3 \\ 75.0 \\ 49.4 \\ \hline 58.8 \end{array} $	$ \begin{array}{r} 64.9 \\ 71.6 \\ 48.5 \\ \hline 56.8 \end{array} $	30.7 25.0 50.6 41.2	35.1 28.4 51.5 43.2	$ \begin{array}{r} 69.7 \\ 75.3 \\ 50.0 \\ \hline 59.3 \\ \end{array} $	65.5 71.9 49.1	30.3 24.7 50.0	34.5 28.1 50.9
Europe including Russia (U.S.S.R.) North America Caribbean South America Africa Asia Oceania	$\begin{array}{r} 64.2\\ 45.2\\ 60.3\\ 60.6\\ 52.4\\ 62.0\\ 50.5 \end{array}$	$\begin{array}{c} 62.8\\ 43.5\\ 63.9\\ 55.5\\ 51.1\\ 58.4\\ 49.0 \end{array}$	$\begin{array}{c} 35.8 \\ 54.8 \\ 39.7 \\ 39.4 \\ 47.6 \\ 38.0 \\ 49.5 \end{array}$	$\begin{array}{r} 37.2 \\ 56.5 \\ 36.1 \\ 44.5 \\ 48.9 \\ 41.6 \\ 51.0 \end{array}$	$\begin{array}{r} 64.6\\ 45.4\\ 68.3\\ 76.6\\ 59.2\\ 65.8\\ 51.0\\ \end{array}$	$\begin{array}{r} 63.2\\ 43.6\\ 73.4\\ 73.8\\ 58.3\\ 62.2\\ 49.5\end{array}$	$\begin{array}{r} 35.4\\ 54.6\\ 31.7\\ 23.4\\ 40.8\\ 34.2\\ 49.0 \end{array}$	$\begin{array}{r} 42.7\\ \hline 36.8\\ 56.4\\ 26.6\\ 26.2\\ 41.7\\ 37.8\\ 50.5 \end{array}$
World	57.0	55.2	43.0	44.8	59.3	57.6	40.7	42.4

(Total Production of each Continental Group = 100.)

¹ Coffee, cocoa, tea, hops (but not tobacco).

It will be seen that foodstuffs have lost, and industrial raw materials gained, in relative importance in all continental groups except the Caribbean. Too much significance should not be attached to the relative importance of foodstuffs and raw materials respectively in the different continental groups since, for metals, smelter production is taken. In consequence, the figures for, for instance, North America and Western Europe are inflated and those for Africa and South America reduced.

From an inspection of Annex V, it will be seen that, if 1928 weights be employed instead of those for 1926, the share of foodstuffs in the aggregates of all the products considered is, throughout the period, somewhat higher. This is due to the fact that the prices of the raw materials group declined more rapidly than did the prices of agricultural products. In 1926, the more important cereals, with the exception of wheat, ruled remarkably low in price. Between 1926 and 1928, there was a substantial decline in the prices of the majority of mineral products, while rubber prices have dropped to less than one-half. These falls have more than counterbalanced the simultaneous fall in the prices of, for instance, wheat and pork, bacon, etc.

In Table VIII below are given the indices for each commodity group for the years 1923 to 1928.

TABLE VIII.

GROUP INDICES OF PRODUCTION IN THE WORLD AS A WHOLE, WEIGHTED BY 1926 VALUES.

Groups of products	1923	1924	1925	1926	1927	1928
Cereals	96	86	100	100	100	105
Cereals and other food crops.	95	- 93	102	100	103	107
Meat	(93)	(99)	(98)	(100)	(104)	(111)
Colonial produce, etc	89	90	100	100	118	113
Vegetable oil materials	86	96	103	100	116	109
Textiles	74	84	94	100	95	101
Rubber	74	75	90	100	109	104
Wood-pulp	78	81	90	100	106	108
Cement	76	84	93	100	110	115
Fuels	99	98	100	100	110	108
Metals	84	86	97	100	107	116
Chemicals	80	87	100	100	105	121
Foodstuffs	95	94	101	100	103	103
Raw materials	86	90	97	100	107	109
General index	91	92	100	100	104	108

(Base : 1926 = 100)

The first index given above is supplementary to the second which includes, in addition to cereals, rice, potatoes and raw sugar. The indices of commodities which are comprised in these groups are given in Annex II, and the group indices for the separate continental groups will be found in Annex III.

Cereals and Other Food Crops.

Of all the commodity groups, that for cereals is the most important, accounting to-day for 25 per cent of the aggregate on which the indices are based. The two groups of cereals and other food crops taken together account for over 44 per cent of the aggregate. The production of cereals has, however, increased but little since the war and substantially less than that of any of the other groups of commodities except fuels. The aggregate of the group remained unchanged in the period 1925 to 1927 at about 5 per cent above the pre-war level. The 1928 harvest, however, was exceptionally good. Record returns were obtained for wheat, oats and barley. The rye crop was substantially, and the maize crop slightly, lower than in 1927. The production of rice, potatoes and of both beet and cane sugar in 1928 also equalled or exceeded that for any preceding year. Owing to the measures taken to restrict the area under sugar in Cuba, cane-sugar production in 1926 and 1927 was lower than in 1925. These measures were abolished, however, in 1928. In spite of this fact, however, beet-sugar production continued in that year to expand somewhat more rapidly than that of cane sugar. But, as is stated in the report of the Economic Committee of the League of Nations on the world sugar situation : "Beet sugar accounted in the opening years of the twentieth century for more than one-half of the world's total; in 1913 for something less than half, and to-day for about one-third. "1

Meat.

The meat-production index, which is printed in parentheses in view of its somewhat conjectural character, continued to rise in 1927-1928. This increase was largely due to the growth in the production of pork, more especially in Europe. It would appear, from statistics shown in Annexes II and III, that there has been a substantial shift in demand in recent years from cereals to meat and potatoes and simultaneously from beer to non-alcoholic beverages. No doubt, if statistics for fruit were available, it would be found that the consumption of fruit had likewise very considerably increased. In this connection, however, it is interesting to note that the production of meat — and, indeed, the consumption per head — in North America is lower to-day than it was in 1923-24, whereas in Europe it increased between 1923 and 1928 by almost one-half.

Colonial Produce, Tobacco, Hops.

The group indices shown for 1927 and 1928 reflect the remarkable variations in the coffee crops. The 1927 crop (season 1927-28) was the heaviest ever harvested,

¹ The World Sugar Situation, 1929, page 6.

exceeding that of the preceding season by 64 per cent. A large surplus of some 10 million bags was left over and production in 1928 (1928-29) dropped considerably, although it was substantially above the 1926 level. The aggregate production of colonial products other than coffee remained practically unchanged over the period 1926-28.

From the figures available, it would appear that the production of tobacco has diminished since 1926. But too much reliance should not be placed on the statistics presented as, owing to the lack of data, the Asiatic production has had to be roughly estimated on the basis of figures of area under cultivation.

Vegetable Oils.

The output of all the oil products of temperate regions was lower in 1928 than in the preceding year. But the drop in the index is very largely due to the fact that the production of olive oil in 1927 was on a quite exceptional scale. The tropical supplies of vegetable oil slightly increased, the falling off in palm-oil and sesamum being more than outweighed by the substantial advance in the supplies of copra, ground-nuts and soya beans.

Textiles.

The textile industry showed some recovery in 1928, compared with the previous year. Indeed, as an inspection of Annex II will show, the production of all textiles excepting jute increased. The total change since 1926 was very slight, however, and this despite a further very large addition to the quantities of artificial silk placed on the market. According to the figures available, the production of artificial silk increased by 18 per cent in 1926, 32 per cent in 1927, 24 per cent in 1928 and 18 per cent in 1929. As Annex III shows, the textile index in the last fifteen years rose less than any of the others, excepting those for foodstuffs and fuels. The fuel index, however, excludes electric power.

Food and clothing are tending steadily to diminish in importance.

Rubber.

The production of raw rubber advanced exceedingly rapidly during the whole post-war period until 1927, notwithstanding the scheme for restriction adopted in the British-controlled areas in 1922. This scheme was abandoned in November 1928. The total production of 1928, however, remained about 36,000 tons below the high level of the preceding year. The bulk of the drop was attributable to British Malaya where the "standard production" decreased by 23,300 tons; production in most other plantation areas in Asia as well as that of para and wild rubber likewise diminished, while that of the Netherlands East Indies remained practically stationary. In spite of this decrease, total shipments of rubber increased in 1928 by some 6 to 7 per cent, owing to the stocks previously accumulated. The removal of the restriction scheme made itself felt in 1929 when both production and shipments increased more than in any single year of the period under review. Stocks in the United Kingdom decreased from 67,300 tons on December 31st, 1927, to 22,900 tons a year after, but rose again to 74,300 tons on December 31st, 1929.

Wood Pulp.

There has been a slight slackening in recent years in the development of the wood pulp industry and the output in 1928 was only 2 per cent higher than in 1927. Production in Europe showed no increase. The tendency, to which reference has been made in previous years, for chemical pulp to replace mechanical, has continued.

Cement.

As stated above the cement index does not include South or Central America or Africa and is not complete for certain other continents. It is, however, sufficiently representative to afford a fair indication of the growth of this particular industry in the regions to which it relates; these regions, indeed, undoubtedly account for the bulk of the production of the world as a whole. But the index should not be employed as a measure of building activity. It will be seen that production has increased at the rate of a little less than 9 per cent per annum during the period covered by the table. This increase is largely due to the development of the industry in a large number of small producing areas.

Fuels.

The fuel index in 1928 was just under 2 per cent lower than in 1927. This drop was wholly due to the reduction in the output of coal by 39.9 million tons. A stimulus had been given to production in 1927 by the depletion of stocks, owing to the British coal dispute in the previous year. The set-back in 1928 is attributable in part to the long coal stoppage in the central coalfields of the United States of America. In 1929, there was a substantial recovery and, from the preliminary data available, it would appear that the world production in that year was about 11 per cent higher than in 1926.

The production of the other components of this index, namely, lignite and petroleum, increased in both 1927 and 1928, in spite of attempts to control the output of petroleum in the United States. There was a further advance in 1929, and the output of petroleum in that year exceeded that in 1926 by about one-third. In the main producing countries, the most rapid development has taken place in Venezuela and Colombia and, to a lesser extent, in the Union of Soviet Socialist Republics.

Metals.

The statistics of metals on which the index is based relate to smelter production and not to the production of ore. In consequence, the continental distribution in the Annexes must not be interpreted as indicating the ultimate sources of supply. The figures for North America and Europe are much higher, and for the other continents appreciably lower, than they would have been had it been possible to employ data relating to the output of mines.

It will be seen that the index rose about 16 per cent between 1924 and 1926 and again by the same amount between 1926 and 1928. In the last two years there

has been a very substantial increase in the production of nickel, tin, aluminium, copper and steel — in that order. The production of nickel in 1928, according to the information received, was nearly 15,000 metric tons greater than in 1927, an increase of over 45 per cent compared with 1926, when production was somewhat low. But, of all the metals considered, aluminium has shown the most rapid and much the most consistent development during the whole period under review.

The iron and steel industry is dealt with in Chapter IV and need not be discussed here. It may, however, be remarked that it accounts for between twothirds and three-quarters of the aggregates upon which the metal index is based and that, as a consequence, the movements of that index are largely determined by it.

Chemicals.

The production of heavy chemicals and fertilisers shows a more pronounced advance than that of any other group under consideration — 52 per cent since 1923 and 21 per cent since 1926. The three principal groups of fertilisers considered are phosphates, potash and nitrates. The increase has been least in the phosphates group as a whole, but in certain countries remarkable progress has been recorded : in North Africa in the output of natural phosphates ; in France, Belgium and Luxemburg in that of basic slag ; and in the United States of America and Japan in that of superphosphates. The production of potash, the world monopoly of which is shared by Germany and France, has risen since 1926 by 29 per cent. The increase is mainly due to the development of the Alsatian industry, which has expanded steadily in recent years, while German production has been adversely affected by the drop in domestic demand.

The nitrate industry, the most important branch of the fertiliser group, has, however, shown the greatest advance. In 1927, the production of Chilian nitrate of soda, which was being rapidly replaced by synthetic products, only amounted to little more than half of the pre-war figure; but it nearly doubled in 1928, and exceeded, for the first time, the 1913 level. The recent progress in the production of manufactured synthetic fertilisers has been particularly marked in Europe, which now produces considerably more than half of the world's total output of fertilisers. The share of South America, however, increased substantially in 1928. It should be noted that in 1929, an agreement was concluded between the Chilian nitrate industry and the largest European producers of synthetic nitrogen.

III. INTERNATIONAL TRADE.

The following tables show the dollar value of world trade in 1926, 1927 and 1928 and the manner in which that trade is divided between different continental groups and, within Europe, between certain divisions of that continent.

TABLE IX.

WORLD TRADE, BY CONTINENTAL GROUPS. Value in dollars (000,000's omitted). (Basis: Recorded values; special tradc; merchandise (1) only.)

Continental groups			IMPORTS EXPOR			EXPORTS	TS TOTAL			
		1926	1927	1928	1926	1927	1928	1926	1927	1928
 Centra (a) Inc (b) Ex Rest of 	l and Eastern Europe : cl. Russia (U.S.S.R.). cl. Russia (U.S.S.R.). of Europe	$4,530 \\ 4,141 \\ 12,605$	$5,888 \\ 5,521 \\ 12,987$	$6,105 \\ 5,619 \\ 13,359$	$4,368 \\ 4,006 \\ 9,167$	$4,712 \\ 4,301 \\ 10,085$	$5,058 \\ 4,654 \\ 10,200$	8,898 8,147 21,772	10,600 9,822 23,072	$11,163 \\ 10,273 \\ 23,559$
3. Europ (U.S	e, excluding Russia .S.R.)	16,746	18,508	18,978	13,173	14,386	14,854	29,919	32,894	33,832
 Europy (U.S North Caribb South Africa Asia, o Oceani 	e, including Russia .S.R.) america(²) America excl. Asiatic Russia a	17,1355,4726961,7201,3344,774986	$18,875 \\ 5,307 \\ 681 \\ 1,773 \\ 1,474 \\ 4,605 \\ 1,025 \\ 33,740 \\$	$ \begin{array}{r} 19,464 \\ 5,376 \\ 649 \\ 1,908 \\ 1,558 \\ 4,584 \\ 936 \\ \hline 31,475 \end{array} $	$ \begin{array}{c} 13,535\\6,016\\871\\1,862\\1,260\\5,274\\952\\\end{array} $	14,7976,0478672,1341,3955,117951	15,2586,4948152,2351,4984,965968	$\begin{array}{c} 30,670\\ 11,488\\ 1,567\\ 3,582\\ 2,594\\ 10,048\\ 1,938\\ \end{array}$	$\begin{array}{c} 33,672\\11,354\\1,548\\3,907\\2,869\\9,722\\1,976\end{array}$	$\begin{array}{r} 34,722\\11,870\\1,464\\4,143\\3,056\\9,549\\1,904\end{array}$

(1) In the case of a few countries, the figures include bullion and specie or relate to general trade.

(2) i.e., Canada, U. S. A., Newfoundland, Greenland and St. Pierre et Miquelon.

(3) i.e., Mexico to Panama, both inclusive, plus West Indies.

TABLE X.

PERCENTAGE DISTRIBUTION OF WORLD TRADE, BY CONTINENTAL GROUPS. (Basis : Recorded Values, reduced to dollars ; Special Trade : Merchandise (¹) only.)

Continuntal		IMPORTS			EXPORTS		TOTAL		
Continential groups	1926	1927	1928	1926	1927	1928	1926	1927	1928
 Central and Eastern Europe: (a) Incl. Russia (U.S.S.R.) (b) Excl. Russia (U.S.S.R.) Rest of Europe 	$14.1 \\ 12.9 \\ 39.2$	$17.4 \\ 16.4 \\ 38.5$	$17.7 \\ 16.3 \\ 38.8$	$14.7 \\ 13.5 \\ 30.8$	$15.1 \\ 13.7 \\ 32.2$	$15.7 \\ 14.5 \\ 31.6$	$14.4 \\ 13.2 \\ 35.2$	$16.3 \\ 15.1 \\ 35.5$	$16.7 \\ 15.4 \\ 35.3$
3. Europe, excluding Russia (U.S.S.R.)	52.1	54.9	55.1	44.3	45.9	46.1	48.4	50.6	50.7
 Europe, incl. Russia (U.S.S.R.) North America (²) Caribbean (³) South America Africa Asia, excl. Asiatic Russia Oceania 	$53.3 \\ 17.0 \\ 2.2 \\ 5.4 \\ 4.1 \\ 14.9 \\ 3.1$	$55.9 \\ 15.7 \\ 2.0 \\ 5.3 \\ 4.4 \\ 13.7 \\ 3.0$	$56.5 \\ 15.6 \\ 1.9 \\ 5.5 \\ 4.5 \\ 13.3 \\ 2.7$	$\begin{array}{r} 45.5\\ 20.2\\ 2.9\\ 6.3\\ 4.2\\ 17.7\\ 3.2 \end{array}$	$\begin{array}{r} 47.3 \\ 19.3 \\ 2.8 \\ 6.8 \\ 4.5 \\ 16.3 \\ 3.0 \end{array}$	$\begin{array}{r} 47.3\\ 20.2\\ 2.5\\ 6.9\\ 4.7\\ 15.4\\ 3.0 \end{array}$	$49.6 \\ 18.6 \\ 2.5 \\ 5.8 \\ 4.2 \\ 16.2 \\ 3.1$	$51.8 \\ 17.5 \\ 2.4 \\ 6.0 \\ 4.4 \\ 14.9 \\ 3.0$	$52.0 \\ 17.8 \\ 2.2 \\ 6.2 \\ 4.6 \\ 14.3 \\ 2.9$
TOTAL (groups 4 to 10)	100	100	100	100	100	100	100	100	100

(1) (2) and (3) See notes to preceding table.

It will be seen from these two tables that Europe accounts for over half of the recorded world trade, North America for over one-sixth and Asia for almost exactly one-seventh. The figures are to some extent affected by the exclusion of freights from the recorded imports of some countries, particularly the United States and Canada. If freights were included throughout, the North-American imports and total trade in 1928 would rise from 15.6 and 17.8 per cent, respectively, to about 16.4 and 18.2 per cent of world imports and total trade, and the shares of Europe would show a corresponding fall. The shares of other continents would remain practically the same.

Trade during the three years shown in the tables was largely influenced by capital movements. In 1926, the net capital exports, not only from the United Kingdom, which suffered from the coal dispute, but also from the United States of America, were on a much lower scale than in earlier years. It is true that subscriptions to foreign capital issues continued on a normal scale, but these were offset by the movement of existing securities and short-term capital; the United Kingdom particularly would appear to have withdrawn large amounts from the Continent of Europe. In 1927 there was a considerable inflow of capital into Europe. Part of the capital which had left the Continent in the preceding year was repatriated, and some countries which had previously received capital — e. g., India and the Dutch East Indies — recorded a net export. To this in part must be attributed the increase in European trade, particularly imports, which is shown in Table X.

In 1928 capital transfers were on a still larger scale and trade was further stimulated. The net capital exports of the United States of America rose by more than \$600 million, or 130 per cent. British capital exports also increased considerably in this year.

The larger capital movements in 1927 and 1928, rendered available by the increase of savings, was largely due to the demand arising from the re-organisation of industry in Europe and industrial development in other parts of the world. It has naturally affected the composition of world trade. There is a marked increase in the trade in capital goods, more especially in machinery. On the other hand, the trade in certain classes of consumption commodities, more especially of textiles, has fallen off.

* *

In order to compare the development of international trade with the production of raw materials and foodstuffs, it is necessary to take price changes into consideration. An estimate of the average changes in the prices of the goods entering into international trade cannot, of course, be made with any close precision; but there are reasons for believing that in 1927 and 1928 both import and export prices were approximately 3 per cent lower than in 1926. In 1929 prices fell further.

It is not necessary here to discuss in detail the data upon which the above estimate is based or the principles applied in framing it. The question is treated in a companion publication to this.¹ The procedure here adopted in order to ascertain the growth or contraction of world trade, however, differs from that employed in an earlier section in the case of raw materials. For raw materials, quantum indices, with prices in sclected years as fixed weights, are employed. In the table given below the trade of each group of countries for 1927 and 1928 has been divided by the same price index (97), irrespective of the actual prices at which the goods handled by any particular country may have been actually bought or sold. This procedure has been adopted because separate price indices are available for a restricted number of countries only. The effect of the difference of methods employed is likely to be negligible so far as the world as a whole is concerned, but it may not be without importance when the more detailed figures are considered.

⁽¹⁾ See Memorandum on International Trade and Balances of Payments, 1926-1928, Vol. I.
For this reason the table should be accepted with reserve and less precision should be attributed to the import or export figures for continents and parts thereof than to figures for total trade and the general trend of development in the years in question.

TABLE XI.

		IMPORTS			EXPORTS		TOTAL		
Continental groups	1926	1927	1928	1926	1927	1928	1926	1927	1928
 (a) Eastern and Central Europe : Excluding Russia (U.S.S.R.) Including Russia (U.S.S.R.). (b) Rest of Europe Europe, excluding Russia (U.S.S.R.) 	100 100 100	$138 \\ 134 \\ 106 \\ 114$	140 139 109 117	100 100 100	111 111 113 113	120 119 115 116	100 100 100	124 123 109	130 129 112 117
Europe, including Russia (U.S.S.R.) North America Caribbean South America Africa Asia, exciuding Asiatic Russia. Oceania		114 100 101 106 114 99 107 107	$ \begin{array}{r} 117 \\ 101 \\ 96 \\ 114 \\ 120 \\ 99 \\ 98 \\ 98 \\ \end{array} $	$ \begin{array}{r} 100 \\ 1$	$ \begin{array}{r} 113 \\ 104 \\ 103 \\ 118 \\ 114 \\ 100 \\ 103 \end{array} $	$ \begin{array}{r} 116 \\ 111 \\ 96 \\ 124 \\ 123 \\ 97 \\ 105 \end{array} $	$ \begin{array}{r} 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ \end{array} $	$ \begin{array}{r} 113 \\ 102 \\ 102 \\ 113 \\ 111 \\ 100 \\ 105 \\ \end{array} $	$ \begin{array}{r} 117 \\ 107 \\ 96 \\ 119 \\ 122 \\ 98 \\ 101 \end{array} $
World	100	108	111	100	108	112	100	108	111

PERCENTAGE CHANGES IN QUANTUM OF TRADE.

Note. - In the case of a few countries, the figures include bullion and specie or relate to general trade.

It will be seen that world trade in 1927 was about $8\frac{1}{2}$ per cent and in 1928 11 per cent greater than in 1926.

The imports of the Caribbean dropped slightly in 1928 and those of Oceania by nearly 9 per cent. This heavy falling-off in Oceanic imports was due mainly to reduced purehases by Australia, whose import values were lower by \$89 million. Australian exports, moreover, were \$36 million lower in 1928 than in 1926 in spite of the high price of wool. There was an insignificant contraction in the imports of Asiatic countries and a much more serious contraction of their exports, amounting to over \$150 million. The exports of British Malaya were seriously affected by the low prices of rubber. Japan also suffered from the steady decline in the price of her principal export — raw silk — and her sales of cotton yarns and tissues fell heavily in 1927 and 1928, mainly, it would appear, as a result of European competition. Both the imports and exports of Europe and of every group of European countries shown, of North and South America and of Africa, continued to increase. The growth of European trade was, in fact, somewhat greater than the figures show since they are influenced by an apparent decrease in the French trade in pearls and precious stones, due, not to any contraction of business done, but to a change in the method of recording.

The remarkable increase in the quantum of imports of the Central and Eastern European countries, exclusive of Russia, by 40 per cent requires a word of explanation. It is due to some extent to the drop in German and Polish imports in the base year 1926, in consequence of the general contraction in the European capital market to which reference has been made above. Borrowings were resumed on an increased scale in 1927 and 1928, and, although they were used partly, especially in 1928, for gold purchases by the central banks, their influence on merchandise imports was very considerable. The imports of Germany rose by more than 40 per cent over the period and those of Poland by the extraordinary figure of 118 per cent. In 1928 imports of this group were about 2 per cent greater than in 1927. Its exports, however, rose by $8\frac{1}{2}$ per cent and its passive balance of trade, as reference to Table IX will show, was reduced by \$255 million. Indeed, the relative growth of its exports during 1928 exceeded that of any other group, though North American and African exports rose by over 7 per cent.

Of all the continental groups, however, Africa and South America show the greatest progress, both in the year 1928 and during the whole period under consideration. The African totals were mainly influenced by the development of the exports of Egypt and of both the imports and exports of Morocco, Tunis and Algeria.

South-American exports also increased substantially. Those of the Argentine rose by \$242 million in 1927 and again by \$15 million in 1928 as the result of two successive excellent harvests. Brazilian exports in 1928 were \$97 million and those of Chile \$46 million higher than in the preceding year. It should be noted, however, that 1926 was a poor year for several South-American countries, in particular the Argentine and Chile; in the former the wheat exports and in the latter the exports of nitrates were considerably below the average for the three previous years.

* *

It is not possible to give world or continental totals for 1929 as returns for many countries are not yet available. It would appear, however, from the preliminary data published in a companion volume¹ that, in spite of a considerable fall in the general price level, the value of world trade was greater in this year than in 1928.

In Europe, the only continent for which almost complete figures are available, there was a slight increase in imports and a considerably greater increase in exports. The exports of the Central and Eastern group of countries, including Russia, rose by about 8 %; its imports, however, were lower than in 1928.

⁽¹⁾ See Memorandum on International Trade & Balances of Payments, 1926-28, Vol. III.

IV. INDUSTRY.

A general review of the development of industrial activity cannot embrace as many countries and branches of production as do the statistics relating to the output of foodstuffs and raw materials. The great diversity of the products of the manufacturing industries renders a study of industrial production difficult. Further, comprehensive industrial statistics are compiled in relatively few countries and as a rule for a few industries only.

All that can be aimed at, therefore, is a rough survey of general industrial activity in a few countries, and of the trend of development in a few branches of production. For the review of general industrial activity, only those countries which publish indices of production are taken into account. The method employed in compiling such indices varies from country to country. The indices generally cover both mining and manufacturing and, in some cases, also the building industry. They do not, of course, show the relative level of production in the several countries but serve to indicate the changes which have taken place in industrial activity.¹ The review of manufacturing industries is confined to iron and steel, the mechanical and electrical industries, including engineering, the production of electrical current, shipbuilding and motor-car manufacture, as well as textiles.

General Industrial Activity.

The general impression afforded by the data relating to industrial activity confirms the results of the preceding analysis regarding raw materials.

The increase of industrial activity has been particularly marked in Europe. In the earlier years under review, Europe was adversely affected by the instability of the Belgian, French and Italian currencies, the readjustments required in Germany and elsewhere as a consequence of currency reforms just accomplished, and in 1926 by the coal stoppage in Great Britain. In the following year France and Italy were handicapped by the readjustments nccessitated by the definite stabilisation of the franc and the lira. In 1928 and the first part of 1929, conditions were, on the whole, relatively favourable and continued to improve. In the second half of 1929, there was a reaction in certain countries.

In Table XII below, indices of production for a number of countries are given.

¹ For details concerning the manner in which these indices are computed, see Introduction to *Monthly Bulletin of Statistics*, 1928, No. 8; 1929, Nos. 3-6 and 9; and 1930, No. 2.

TABLE XII.

			1	1
Country	1926	1927	1928	1929
America : Canada	$\frac{117}{104}$	$\frac{125}{102}$	$138\\107$	154 113
Europe :	117	102	118	130
Germany	95	120	120	122
Poland	98 103	122	$\begin{array}{c} 138 \\ 104 \end{array}$	$138 \\ 127$
Switzerland	95	112	117	111
United Kingdom ² \ldots \ldots		107	106	$\frac{112}{(b)240}$

INDICES OF INDUSTRIAL PRODUCTION IN VARIOUS COUNTRIES¹. 1925 = 100

¹ The source and original base of each series are indicated in Annex VI.

² Board of Trade Index based on 1924=100.

(a) Year ending September 30th.

(b) October 1928 to August 1929.

The indices shown are annual averages and do not, therefore, give a perfectly accurate impression of the course of events, which is better illustrated by Diagrams VI to IX giving the monthly indices for the whole period. For these diagrams the year 1926 is taken as the base period in order to permit of comparison with the diagrams given in Chapter I. A common scale is employed in all cases.

The Canadian index, which shows an astonishing rise during the period, relates mainly to mining and the simple forms and early stages of manufacture. Thus it covers milling, sugar manufacture, butter and cheese making, slaughter statistics, the production of pig-iron and crude steel and of news-print paper. The development of the textile industry is shown by two series based on the imports of raw cotton and wool, and that of petroleum refining is indirectly measured by the imports of crude petroleum. The only highly finished products directly measured are motorvehicles. The industrial growth in recent years has been so remarkable that it may be interesting to set out the annual progress since 1924 :

```
1925 as percentage of 1924 = 1071928 as percentage of 1927 = 1111926 as percentage of 1925 = 1171929 as percentage of 1928 = 1121927 as percentage of 1926 = 107
```



1926 = 100



The highest monthly figure was reached in January 1929, since when there has been some falling off.

The index of production for the United States, which is compiled by the Federal Reserve Board, includes mining and covers sixty series of returns relating to thirty-five industries. "It includes many commodities which enter as materials into great numbers of other factory products and thus serves as a fairly close measure of variations in manufacturing activity, especially over relatively short periods."¹ It will be seen from the diagram that the index rose steadily, indeed, in the latter part of that period, rapidly, up to the middle of 1929, except for a temporary check in 1927. This check was due largely to the temporary closing down of one of the large motor-car plants. Production declined in the latter half of 1929; this decline, which was greatly accelerated in the last two months by the repercussions of the Stock Exchange slump, spread far beyond the frontiers of the United States, as an inspection of the diagrams will show.

The French index covers mining, textiles, the heavy metal industries, various forms of engineering, including shipbuilding and the manufacture of motor-vehicles, building, pulp-paper manufacture and rubber. It will be seen that a rapid and very remarkable recovery was made from the temporary setback caused by the *de facto* stabilisation of the franc, and by the end of December 1929 the French index stood higher compared with 1925 than that of any other country for which data are available, except the U.S.S.R.

The German index includes thirty-one distinct series, of which one-half are basic industries — mining, heavy metals, production of cement, bricks, etc. — and the other half finishing industries, such as engineering, manufacture of textiles, shoes, porcelain, pianos, clocks and watches, etc. The development in Germany has been irregular and is better followed from the diagram than from the table. It will be seen that there was a rapid recovery in 1926-27 from the depression which set in towards the end of 1925. During the last two years, the position has been fairly held without any marked increase in production.

The Polish index likewise covers the whole range of production from mining to finished textile products, although, owing to the industrial structure of the country, the basic industries predominate. Textiles, however, constitute 20 per cent of the whole. The general movement has not been dissimilar from that in Germany, although the extent of recovery since 1925 has been somewhat greater.

Different indices for the United Kingdom are shown in the table and in the diagram, as the official index does not cover the years 1925-26. The official index embraces mining, quarrying, production of iron and steel and manufactures thereof, non-ferrous metals, engineering and shipbuilding, textiles, chemicals and allied trades, paper, building, leather, boots and shoes, food, drink and tobacco, gas and electricity. The index given in the diagram, which is less comprehensive, lies habitually somewhat below the official index. Thus the average figures for 1929

¹ United States Department of Commerce : Commerce Year-Book, 1929, Vol. 1, page 2.

were 110.6 and 111.6.¹ It should be observed that the base year 1926 employed for the purposes of the diagram is quite unsuitable for the United Kingdom, as production was largely arrested that year by the coal dispute. The significance of the diagram lies only in the quarterly fluctuations shown in the other years given and not in the extent to which the major portion of the diagram lies above its base. The reaction which took place in the third quarter of 1928 resulted in the total production in that year being slightly lower than in the preceding year. In 1929, there was an appreciable recovery which continued in the last quarter in spite of the widespread depression in December.

The Swedish index, owing to the economic structure of the country, reflects mainly the conditions obtaining in industries employing wood as their raw material and in the heavy metal industries. Wood, pulp and paper account for well over half of the total. Labour disputes, particularly in the first quarter, seriously affected the production figures for 1928, in spite of rapid improvement in the last two quarters of that year. Remarkable progress was made in 1929.

The index for Switzerland is completely different in character from those given for other countries and is based on returns to a questionnaire sent out to a large number of manufacturers requesting them to indicate the general activity of their works. The index rose steadily for two years from the second quarter of 1926. Since the middle of 1928, however, there has been a slow general downward trend.

The Russian index covers both the mining and manufacturing industries in the proportion of 27 to 73. Heavy industries and textiles predominate in the latter group, which also includes leather, paper and tobacco. Since the end of 1927 the figures indicate a remarkable increase in activity, which reflects the effort towards industrialisation that has been made in this country in recent years.

It is interesting to observe the different rates of industrial development in "old" and in "new" industries during recent years. Raw cotton consumption increased between 1924-25 and 1928-29 by 12 per cent, whereas the output of artificial silk more than doubled in the same time. Within the group of fertilisers, the output of Chilian saltpetre increased between 1925 and 1928 by 31 per cent and that of synthetic nitrogen by 82 per cent. A still more striking example is furnished by the lighting industry; the consumption of gas mantles declined by 5 per cent in the three years 1925 to 1927, while that of electric lamps rose by 31 per cent. In the domain of the power industries, the increased use of petroleum and the progress of electrification have hampered the development of coal-mining; between 1925 and 1928 the output of coal rose by nearly 4 per cent, whereas that of petroleum and electricity increased by 24 and 40 per cent respectively. Moreover, the world production of coal in 1925 was no greater than it was in 1913.

¹ Based on 1924 in both cases.

Iron and Steel Industry.

As was shown in the study of raw materials, the production of pig-iron and raw steel increased continuously from 1923 to 1928 and 1929. Figures for individual countries are given in Table XIII.

TABLE XIII (a)

PRODUCTION OF PIG-IRON.

Countries		Output i	Output in 1929 as per- centage of	Output as percentage of world total				
	1925	1926	1927	1928	1929	that in 1925	1925	1929
North America Canada United States of America	$37,863 \\ 606 \\ 37,257$	40,798 828 39,970	37,896 779 37,117	$39,836 \\ 1,100 \\ 38,736$	44,072 1,108 42,964	$116.4 \\ 182.8 \\ 115.3$	$49.5 \\ 0.8 \\ 48.7$	$45.1 \\ 1.1 \\ 44.1$
<i>Asia</i>	$\substack{1,994\\932}$	$2,221 \\ 1,135$	2,635 1,268	$egin{array}{c} 2,714 \ 1,520 \end{array}$	$\substack{3,000\\1,750}$	$\frac{150.5}{187.7}$	2.6 1.2	3.1 1.8
Europe	36,198	34,948	45,271	45,253	50,100	138.1	47.3	51.2
Belgium	2,543 8,505 10,089 2,363 1,452	3,368 9,430 9,636 2,559	$ \begin{array}{r} 30,537\\ 3,709\\ 9,236\\ 13,089\\ 2,732\\ 1,732\\ 1,751\\ \end{array} $	$\begin{array}{c} 30,512\\ 3,905\\ 10,097\\ 11,804\\ 2,770\\ 1,002\\ \end{array}$	32,949 4,096 10,441 13,401 2,906	$\begin{array}{c} .\\ 161.1\\ 122.8\\ 132.8\\ 123.0\\ \end{array}$	3.3 11.1 13.2 3.1	33.7 4.2 10.7 13.7 3.0
Czechoslovakia	1,453 1,166 482 315 6,362	1,025 1,088 513 327 2,498	1,771 1,260 489 618 7,410	$ \begin{array}{r} 1,936\\ 1,569\\ 507\\ 684\\ 6,717 \end{array} $	$ \begin{array}{r} 2,105 \\ 1,642 \\ 678 \\ 706 \\ 7.701 \end{array} $	$ \begin{array}{r} 144.9\\ 140.8\\ 140.7\\ 224.1\\ 121.0\\ \end{array} $	$1.9 \\ 1.5 \\ 0.6 \\ 0.4 \\ 8 3$	$2.2 \\ 1.7 \\ 0.7 \\ 0.7 \\ 7.0$
U.S.S.R	1,290	2,207	2,963 86,414	3,281	4,318	334.7	1.7	4.4

TABLE XIII (b)

PRODUCTION OF STEEL

Countries		Output in	Output in 1929 as per- centage of that in 1015	Output as percentage of world total				
	1925	1926	1927	1928	1929	that in 1915	1925	1929
North America. Canada United States of America Japan Japan Europe European Steel Entente (Western Group) Belgium France Germany Luxemburg Saar Basin Czechoslovakia Italy Poland United Kingdom U.S.S.R.	$\begin{array}{r} 46,887\\765\\46,122\\1,807\\1,300\\41,236\\\\.\\2,549\\7,464\\12,119\\2,084\\1,575\\1,476\\1,786\\782\\7,504\\1,868\\\end{array}$	$\begin{array}{r} 49,858\\789\\49,069\\2,087\\1,506\\40,958\\\hline \\ 3,374\\8,617\\12,264\\2,344\\1,736\\1,344\\1,780\\788\\3,654\\2,911\\\hline \end{array}$	$\begin{array}{r} 46,578\\922\\45,656\\2,298\\1,685\\52,278\\32,517\\3,680\\8,306\\16,167\\2,471\\1,893\\1,692\\1,595\\1,244\\9,243\\3,552\\\end{array}$	$53,631\\1,260\\52,371\\2,414\\1,685\\53,450\\32,478\\3,934\\9,387\\14,517\\2,567\\2,073\\1,992\\1,963\\1,433\\8,656\\4,156\\\end{cases}$	$56,436\\1,402\\55,034\\2,750\\2,100\\58,600\\34,955\\4,132\\9,666\\16,246\\2,702\\2,209\\2,151\\2,149\\1,377\\9,810\\5,046$	$\begin{array}{c} 120.4\\ 183.3\\ 119.3\\ 152.2\\ 161.5\\ 142.1\\ \\ \\ \hline \\ 162.1\\ 129.5\\ 134.1\\ 130.0\\ 140.3\\ 145.7\\ 120.3\\ 176.0\\ 130.7\\ 270.1\\ \end{array}$	$51.8 \\ 0.8 \\ 51.0 \\ 2.0 \\ 1.4 \\ 45.6 \\ . \\ 2.8 \\ 8.3 \\ 13.4 \\ 2.3 \\ 1.7 \\ 1.6 \\ 2.0 \\ 0.9 \\ 8.3 \\ 2.1 \\ -$	$\begin{array}{c} 47.7\\ 1.2\\ 46.5\\ 2.3\\ 1.8\\ 49.5\\ 29.5\\ 3.5\\ 8.2\\ 13.7\\ 2.3\\ 1.9\\ 1.8\\ 1.8\\ 1.2\\ 8.3\\ 4.3\\ \end{array}$
World	90,447	93,400	101,717	110,000	118,300	130.8	100	= 100

The increase from 1925 to 1929 was 27 per cent in the case of iron and 30 per cent in that of steel. The persistent rise in the world totals is the more noteworthy, as the production was disturbed in one or another of the great centres of production in the majority of the years under review : by the British coal stoppage in 1926, the effects of which extended to the iron and steel industry ; by the temporary closing down of one of the most important motor-car plants in America in 1927 ; and by the industrial dispute in the Ruhr works in 1928.

The world production of steel in 1927 slightly exceeded 100 million tons, of which Europe accounted for over one-half. The following year the output of North America increased by over 7 million tons, with the result that, in 1928 and 1929, the output of the two continents was practically equal.

Since the formation of the "European Steel Entente", of which the western group¹ covers about two-thirds of the pig-iron output and 60 per cent of the steel output in Europe, three main groups of iron and steel producers may be distinguished, whose shares in the world production were in 1929 as follows:

¹ The Central European Group, comprising several of the minor producers, is more loosely connected with the Entente.

1. The United States: 44 per cent of pig-iron and 47 per cent of steel.

2. European Steel Entente (Western Group): 34 per cent and 30 per cent respectively.

3. The United Kingdom : 8 per cent of each product.

The output of all other producers amounts to 14 per cent and 15 per cent respectively.

Of the total quantity of iron and steel entering into international trade, the Belgo-Luxemburg Union, France-Saar, Germany, and the United Kingdom are each responsible for an approximately equal share — a little over one-fifth each in 1928. The United States have advanced their exports more rapidly than the other major producing countries and the United Kingdom less rapidly.

In the last two years prices, which sagged in 1927 and 1926, have advanced, as the following rough indices demonstrate :

	1925	1926	1927	1928	1929
Germany (Stabeisen Oberhausen)	100	101	101	105	107
Belgium (Barres, free station)	100	90	87	103	106
France (Aciers march. Eastern works)	100	99	88	100	100
Great Britain (Middlesbrough, rounds and squares	200	00	00	100	109
$\frac{3}{8}$ to 3 in., free destination)	100	93	93	88	90
United States (Pittsburgh, steel bars, ex works)	100	99	91	93	95

The quotations on which these indices are based are, of course, not strictly comparable and for this reason the absolute figures have not been given. These latter show clearly, however, that there has been a tendency in recent years for prices in different countries to draw closer together.

Mechanical Engineering.

Owing to the diversity of the products of the mechanical engineering industry, no uniform measure of production is possible. The variation in the activity of this industry in certain countries may, however, be roughly gauged from the indices of production which have been compiled. Further, relatively complete information is available with reference to certain branches. Thus it is known that the tonnage of ships launched increased by about 27 per cent between 1925 and 1929, and it is estimated that the output of motor-vehicles rose in the same period by over 30 per cent. The following figures, extracted from a companion volume to this,¹ of the exports of machinery from certain of the major producing countries, show that, during the period 1925-28, the total value increased by approximately 30 per cent.

¹ Memorandum on International Trade and Balances of Payments, 1926-1928, Vol. 1, Geneva 1929.

		\$ (000	\$ (000,000's)			
		1925	1928			
United Kingdom		236.6	261.3			
Germany		158.3	244.1			
France		58.9	75.9			
United States of America		367.9	497.2			
Austria	• •	11.7	14.4			
Switzerland	•	36.0	45.1			
Total		869.4	$1,\!138.0$			

- 43 -

These miscellaneous sources of information suggest that the production of the engineering industry, taken as a whole, probably increased by some 25 per cent or more between 1925 and 1929. This progress no doubt reflects largely the steps being taken at the moment, especially in Europe, to improve industrial equipment.

The above estimate would seem to be confirmed by the indices of engineering production published by certain countries. These indices vary in scope and method of compilation and cannot be directly compared.

The following French index relates to the treatment of iron and is indirectly calculated from the consumption of raw steel :

	1925	1926	1927	1928	1929
France	100	117	103	123	139

The movement is similar to that of the general index of production.

The German Institut für Konjunkturforschung publishes an index based on machines dispatched, the annual averages of which are as follows :

	1925	1926	1927	1928	1929
Germany	100	85	112	122	121

The great increase in activity shown in 1927 and 1928 was due mainly to foreign demand; home consumption, it is stated, has fallen. For this reason the figures relating to exports of machines quoted above tend somewhat to exaggerate the total demand to-day and the increase in that demand during the four-year period covered.

The index compiled by the British Board of Trade covers at once engineering proper and shipbuilding. It is based on the average for the year 1924 :

			1924	1927	1928	1929
United	Kingdom	•	100	115	113	121

As the tonnage of ships launehed in 1929 was about 6 per cent greater than in 1924, it may be presumed that the expansion of the other branches of engineering has been greater than the index suggests. On the other hand, as the figures quoted above show, exports by value in 1928 were only 11 per cent greater than in 1925.

The Swedish Board of Trade publishes an index of the value of the gross production of the engineering and shipbuilding industries based on 1913 prices, which has moved as follows:

				1925	1926	1927	1928
Sweden	•			100	119	124	151

The remarkable advance indicated by the figures is largely due to the activity of the Swedish shipyards, which doubled their output during the period under review. Consequently, the development of the engineering industry proper has been considerably less than the general index would suggest.

No direct measurement exists for the United States, but "the demand for foundry equipment and for machine tools" is considered "a significant indicator of the prospective activity anticipated by the machinery manufacturing industry".¹ The annual indices for such orders were :

United States	1925	1926	1927	1928
Machine tools	100	108	92	158
Foundry equipment	100	106	93	130

Shipbuilding.

The total tonnage of ships of over 100 tons register launched in 1929 amounted to 2,793,000, and was greater than in any year since 1921. Indeed, there has been steady progress year by year since 1926, when a number of the British yards were temporarily closed down, and, in so far as it is possible to judge from the figures of tonnage under construction, which amounted to 3,111,000 tons at the end of 1929, there appear to be reasonable grounds for presuming that this improvement will continue in the near future. It is clear from these figures and from those given in the table below that the shipbuilding industry is gradually recovering from the depression from which it suffered after the largely artificial boom of 1920 and 1921.

¹ Commerce Year-Book, 1929, Vol. 1, page 429.

TABLE XIV.

SHIPBUILDING.

(All vessels.	including	sailing	vessels.)
---------------	-----------	---------	-----------

Country	Ton Tons gro	nage launc ss (000's or	hed mitted).	To: as per	nnage l cent of	Tonnage launched as per cent of world total.			
	1925	1928	1929	1926	1927	1928	1929	1925	1929
North America : United States (Coast) ¹	78.8	91.0	100.6	146	158	115	128	3.6	3.6
Asia : Japan	55.8	103.7	164.5	94	76	186	295	2.5	5.9
Europe :		× 00 5		0.0	0.0	190	159	2 2	4.0
Denmark	73.3	138.7	111.0	98	90	100	102	24	9.0
France	75.6	81.4	81.6	101	59	108	108	0.4 10 5	2.9
Germany	406.4	376.4	249.1	44	171	93		18.0	0.9
Italy \ldots	142.0	58.6	71.5	155	71	41	50	6.5	2.0
Netherlands	78.8	166.8	186.5	119	152	212	237	3.6	6.7
Sweden	53.8	106.9	107.2	100	125	199	200	7.5	3.8
United Kingdom .	1,084.6	1,445.9	1,522.6	59	113	133	140	49.4	54.5
WORLD	2,193.4	2,699.0	2,793.2	76	104	123	127	100	100

¹ Excluding Great Lakes.

The launchings in 1929 exceeded those in 1925 by about 660,000 tons, of which the United Kingdom contributed over two-thirds. As a result, her share in the world's totals rose from 48 to 55 per cent. In spite of this, however, her shipyards were by no means fully occupied.

The second largest shipbuilder to-day is Germany. But her output has diminished substantially since 1925 and, as will be seen from the table, has fluctuated widely from year to year.

Sweden and Denmark passed the 100,000-ton mark for the first time in 1928, and are both producing to-day more sea-going vessels than the United States. The Netherlands and Japan have also made a remarkable recovery from the depression of preceding years.

Motor-Vehicles.

Only a limited number of countries publish statistics of the manufacture or sale of motor-vehicles. But it is possible to make a rough estimate from the statistics of car registrations and the statistics of imports and exports. For a number of reasons, into which it is not necessary to enter here, such calculations can only be of approximate accuracy, and the totals obtained are of course not the totals of like units. All forms of vehicles are arbitrarily treated as equal. So long as the composition of the motor fleets of the different countries does not vary greatly, this fact may not have any great significance; but, in view of the rapid changes which the industry has been undergoing, this form of measurement can clearly only be safely undertaken over relatively short periods of time.

The United States Department of Commerce has issued an estimate of world output which includes the major part of the period considered in this *Memorandum*. The main results are summarised in Table XV.

Country		1928 as				
country	1925	1926	1927	1928	1929	percentage of 1925
1. North America	4,427 161 4,266	$4,506 \\ 205 \\ 4,301$	$3,580 \\ 179 \\ 3,401$	$4,601 \\ 242 \\ 4,359$	$5,621 \\ 263 \\ 5,358$	$104 \\ 150 \\ 102$
2. Europe	466	529	579	602		129
3. Total of 1 and 2	4,893	5,035	4,159	5,203		106
4. North America as percentage of total given	90	90	86	88	• • •	

TABLE XV.

PRODUCTION OF MOTOR-VEHICLES

According to these statistics, North America accounts for about nine-tenths of world output, though the proportion was slightly lower during the last two years given in the table. It was affected in 1927 by the temporary closing down of one large plant. Of the European production, the United Kingdom and France probably account together for about two-thirds.

The wide fluctuations in total production shown in the table are, of course, mainly determined by conditions in the United States. One million less vehicles were produced in 1927 than in either the preceding or succeeding year and a million more in 1929 than in 1928. The annual fluctuations in this single country thus substantially exceeded the total European production.

The statistics for Europe are no doubt less accurate than those for North America, being based largely or wholly on estimates and not on direct returns. They indicate that European production has increased by about 29 per cent in the period 1925-1928. A comparison of the production and export figures for the United States shows that the proportion of the total production of motor-vehicles exported increased from 8 per cent in 1925 to 12 per cent in 1929. The exports of the major European producers, except the United Kingdom, have fallen during recent years.

		Nu	mber (000's)	Value in \$ (000,000's)					
Country and category	1925	1926	1927	1928	*1929	1925	1926	1927	1928	*1929
North America.										
Canada : ²										
Passenger cars 1	$\begin{array}{c} 61.5 \\ 19.2 \end{array}$	$\begin{array}{c} 51.3\\ 20.4 \end{array}$	$\begin{array}{c} 31.7\\15.1\end{array}$	72.1 31.5	50.2 29.7	29.4 6.3	$\begin{array}{c} 24.9\\ 6.9\end{array}$	$ \begin{array}{c c} 19.2 \\ 5.6 \end{array} $	$31.2 \\ 11.8$	$\begin{array}{c} 23.2\\12.1\end{array}$
Total	80.7	71.7	46.8	103.6	79.9	35.7	31.8	24.8	43.0	35.3
United States :									·	
Passenger cars 1 Lorries and buses 1	$\begin{array}{c} 244 \\ 59 \end{array}$	$\begin{array}{c} 238\\ 67\end{array}$	$\begin{array}{c} 279\\ 106 \end{array}$	$\begin{array}{c} 368\\ 139 \end{array}$	$\begin{array}{c} 339\\197\end{array}$	$184.9 \\ 37.7$	$\begin{array}{c} 176.4\\ 47.2 \end{array}$	$\begin{array}{c} 208.0\\70.1 \end{array}$	$\begin{array}{c} 263.6\\91.3\end{array}$	$\begin{array}{c} 234.3\\111.4 \end{array}$
Total	303	305	385	507	536	222.6	223.6	278.1	354.9	345.7
Parts (excluding engines and								·		
tyres)	$\dot{146}$	118	$\dot{97}$	124	95	$\begin{array}{c} 85.7 \\ 15.3 \end{array}$	$90.8\\12.5$	$\begin{array}{c} 106.3\\ 10.9 \end{array}$	$\begin{array}{c}139.4\\13.0\end{array}$	$\begin{array}{c} 190.6\\ 10.2 \end{array}$
Europe.										
France :										
Passenger cars ¹	$59.0 \\ 4.8$	$54.7 \\ 5.1$	$\begin{array}{c} 46.9 \\ 5.2 \end{array}$	$^{*40.9}_{*5.1}$	$39.1 \\ 9.9$	$\frac{102.2}{8.7}$	$70.3 \\ 7.2$	$\begin{array}{c} 61.1 \\ 6.8 \end{array}$	*53.3 *7.1	$\begin{array}{c} 48.6 \\ 12.8 \end{array}$
Total	63.8	59.8	52.1	*46.0	49.0	110.9	77.5	67.9	*60.4	61.4
Germany :										
Passenger cars 1	$egin{array}{c} 1.5\ 1.1 \end{array}$	$\begin{array}{c} 1.4 \\ 0.8 \end{array}$	$2.7 \\ 1.4$	4.6 3.4	$4.8 \\ 3.4$	$3.2 \\ 2.4$	$2.3 \\ 2.3$	$3.9 \\ 2.5$	$\begin{array}{c} 6.3 \\ 5.0 \end{array}$	$7.7 \\ 5.6$
Total	2.6	2.2	4.1	8.0	8.2	5.6	4.6	6.4	11.3	13.3
Italy :		·						·		
Motor-cars ¹	29.1	34.2	33.3	*28.3	23.7	26.6	27.6	31.2	*21.5	18.6
United Kingdom .										
Passenger cars (complete) Lorries (complete) Chassis for passenger cars Chassis for lorries	$17.8 \\ 1.5 \\ 9.7$	$14.9\\1.2\\16.4$	$16.1 \\ 1.7 \\ 17.8 \\ 17.8 \\ 17.8 \\ 1000 \\ 1$	$18.2 \\ 1.4 \\ 8.0 \\ 4.9$	24.2 2.6 9.9 5.6	$20.2 \\ 4.3 \\ 11.3$	$15.7 \\ 2.8 \\ 16.3$	$17.1 \\ 5.3 \\ 18.6$	$17.6 \\ 3.7 \\ 4.6 \\ 8.6$	$21.3 \\ 4.9 \\ 5.3 \\ 9.4$
Total	29.0	32.5	35.6	32.5	42.3	35.8	34.8	41.0	34.5	40.9
Grand Total ³	508.2	505.4	556.9	*725.4	739.1	437.2	399.9	449.4	*525.6	515.2

TABLE XVI

MOTOR-CAR EXPORTS.

* Provisional figures.
¹ Including chassis.
² Years beginning April 1st.
³ Parts and engines exported from the United States are not included.

It will be seen that the value of the exports of France, Italy and the United Kingdom was lower in 1928 than in 1925. British exports, however, rose by nearly $6\frac{1}{2}$ million dollars in 1929 and French by almost exactly 1 million dollars. Exports from Germany have risen steadily since 1926. After a phenomenal increase in 1927 and 1928, exports from the United States were checked in 1929. The value of complete cars and chassis sold abroad dropped in that year by over 9 million dollars. This drop, however, was more than offset by the continued growth in the exports of parts.

Electrical Industry

Owing to the miscellaneous character of the products of the electrical industry, it is almost more difficult than in the case of mechanical engineering to gauge, even approximately, the development which is taking place. That that development is considerable is, however, beyond doubt. According to an unofficial estimate submitted to the World Economic Conference and published in the documentation of that Conference, the world production of electrical goods in 1925 amounted to about 3 milliard dollars. An estimate, compiled on a comparable basis by the same experts ¹ for the year 1927 gives 3.45 milliard dollars, an increase of 14 per cent. Since then a further substantial advance has been made and the value of the exports of the most important trading countries in 1928 was about 30 per cent greater than in 1925. In the two years 1925-27 exports increased by 16 per cent, and in the following two years by about 14 per cent. German domestic consumption in the last couple of years probably expanded somewhat less than her exports, and French domestic consumption certainly expanded very substantially, while exports dropped. These figures seem to confirm the unofficial estimate of production just mentioned and it is not improbable that the rate of increase quoted continued throughout the quinquennium and that there was, therefore, an expansion of output during the period in the neighbourhood of 30 per cent.

The following table gives the value of the exports of the electrical industry of various countries in terms of dollars.

¹ Reichsverband der deutschen Industrie, Fachgruppe Elektrotechnik.

TABLE XVII.

EXPORTS OF ELECTRICAL GOODS.

		\$ (000),000's)		1929 as percent-
	1925	1927	1928	*1929	age of 1925
America. United States of America	84	99	107		(a)127
Europe. France	$19\\84\\13\\10\\10\\85$	$15 \\ 103 \\ 17 \\ 15 \\ 10 \\ 91$	*15 126 25 19 14 90	$ 18 \\ 146 \\ 50 \\ 17 \\ 14 \\ 96 $	$95 \\ 174 \\ 385 \\ 170 \\ 140 \\ 113$
Total	305	350	*396	• • •	
Total as percentage of 1925	100	115	130		

(a) 1928 as percentage of 1925.

* Provisional figures.

The definition of the term "Electrical Industry" is not uniform in all countries, and the classification of electrical goods in the trade returns varies. But, in so far as possible, the above statistics have been compiled on a uniform basis and embrace electrical machinery (motors, dynamos, transformers, etc.), bulbs, electric installation materials, boiling apparatus, radio receivers, electrometers cables, etc. Since 1927, the value of the German exports exceeded those of any other country. In the first of the five years given, the difference in the totals of Germany, the United States of America and the United Kingdom was under 1.5 million dollars. In 1929, German exports exceeded those of the United Kindgom by 50.2 million dollars. The most rapid progress, however, was made not by Germany but by Sweden and the Netherlands. The economic development of Sweden (whose industries are somewhat specialised) in post-war years has, as her indices of production show, been very remarkable. There has also been in recent years a very rapid industrial development in the Netherlands, which is reflected in certain of the tables contained in this chapter.

Electrical Energy

Statistics of electrical current generated are available for a considerable number of countries, but are, in the majority of cases, incomplete. Those for Germany, Belgium, Poland, Sweden, Russia and Japan cover the whole national production. The Canadian, Dutch, French, Italian and Swiss figures are believed to account for about 90 per cent of the total. The British figures account for rather less than 90 per cent and those for the United States for rather more.

On the basis of the available information it would appear that the production of electric current increased by about one-third between 1925 and 1928, a figure which may be compared with that given for electrical products above.

Owing to the incompleteness of the statistics, it is not possible to estimate with precision the national contributions to the totals; but the United States has developed the generation of electric current to a far greater extent than any other country and probably accounts for 45 per cent or more of the world production. The joint output of the United States and Canada must be over one-half of the world total. The output per head, however, is greater in both Canada and Switzerland than it is in the United States.

The relative rate of growth in different parts of the world is indicated in the following table, in which the countries are grouped according to the approximate percentage increase between 1925 and 1928.

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	A 1		

RATE OF INCREASE IN THE PRODUCTION OF ELECTRICAL CURRENT.

Group	Percentage increase		Countries	Group	Percentage increase	Countries
I	11-20	(a) (a)	Roumania Denmark South Africa	III	31-40	France Italy Germany
II	21-30	(a)	Sweden Finland	IV	41-50	Australia Netherlands
		(u)	United Kingdom United States Uruguay	V	51-60	Poland Switzerland Canada
		<i>(a)</i>	Japan	VI	125	U. S. S. R.

1925 то 1928.

Source : See International Statistical Year-Book 1929, where absolute figures are given. (a) Production in 1927 as percentage of that in 1925.

It should be observed that several of the countries whose indices are above the average, such as Belgium, the Netherlands, Poland, Australia and New Zealand, generate only a small amount of current. New Zealand's production is, indeed, quite negligible. Much more important than the progress achieved by these minor producing countries is the all-round advance of about 30 per cent. The uniformity of the rate of increase of about one-quarter to one-third during the period given is, indeed, very remarkable.

Textiles

The textile industry as a whole constitutes a striking contrast to those which have been considered above. It has been shown that the production of steel in the quinquennium ending 1929 increased by about 30 per cent, the estimated output of motor-cars by over 30 per cent, engineering in general by some 25 per cent, electrical engineering and the production of electrical current by 30 per cent or more, while the indices in Chapter II show a growth in the production of heavy chemicals by 22 per cent and of wood pulp by 20 per cent. The textile raw materials index in 1929, on the other hand, was probably only about 109, and this index is influenced by the very remarkable increase in the quantity of artificial silk produced and to a lesser extent by the rise in the sales of natural silk in the world markets. The increase in the production of most of the major or coarser textiles was still lower. Thus, cotton rose between 1925-26 and 1928-29 by only 6 per cent. Hemp fell by 11 per cent and flax by 9 per cent between 1925 and 1928. Similarly, during the last two years there has been a tendency for the development of the wool industry to be arrested. Further, although it is true that the production and exports of artificial silk continued to rise, the total value of world exports of this product dropped in the last 12 months under review.

In the following table the indices of textile production for those countries for which they are compiled are given :

1925	= 100			
Country	1926	1927	1928	1929
Imerica : United States 1	100	109	103	111
$France^2 \dots \dots \dots \dots \dots \dots \dots \dots$	107	98	109	101
Germany ³	83	107	94	(a) 84
Poland $\overset{\circ}{4}$	95	141	147	131
Sweden 5	112	120	125	
United Kingdom ⁶		102	100	99

		TAB	LE	XIX	•	
INDICES	OF	PRODUCTION	IN	THE	TEXTILE	INDUSTRY.

¹ Federal Reserve Board.

² Statistique Générale.
 ³ Institut für Konjunkturforschung (Old index based on 1924/26).

⁴ Conjuncture Institute.

⁵ Kommerskollegium.

⁶ Board of Trade ; figures for 1925 and 1926 are not available ; this calculation is therefore based on 1924.

(a) January to September 1929.

The composition of the indices given in the table varies considerably. That for France refers to the cotton, wool and silk industries, and is based on average output of cotton per spindle and per loom, spinning and weaving being combined in the proportion of 7: 12, wool conditioned at two manufacturing centres and silk conditioned at Lyons. The German index refers to the yarn production of cotton and linen and the quantity of hemp yarn despatched. It does not include the production of artificial silk. The British, Polish and Swedish indices are much



wider in their scope. The Polish index covers cotton spinning, weaving, bleaching, dyeing and printing, the woollen and worsted industry, jute, silk and artificial silk. The Swedish index includes the production of cotton and woollen yarn and cloth, linen, jute and hemp spinning, linen and jute weaving, rope-making, hosiery, etc. That for the United Kingdom covers cotton spinning, weaving, bleaching, dyeing and printing, the woollen and worsted industry, jute, silk, artificial silk, linen and hosiery; that for the United States, the production of cotton, woollen and worsted goods and silk manufactures, and is based on the mill consumption of raw material and on spindle and loom activity for wool and silk.

As a general rule, the indices which cover the greatest range of industries tend to rule highest, a fact which was to be expected, as it is the major branches of the industry, namely, cotton and wool spinning and weaving, which, in recent years, have been most depressed. Thus, if hosiery be omitted from the Swedish calculations, the index for that country in 1928 drops from 124 to 120. Hosiery is, indeed, one of the branches of the textile industry which has made very remarkable progress in recent years. Indeed, in Sweden, while the total textile index, excluding hosiery and ready-made clothing, was, in 1928, only 9 per cent above the 1913 level, the hosiery index was 96 per cent higher. Unfortunately, it is only for a relatively few countries that details about this particular branch are available.

The table shows that, with the exception of Sweden and Poland, the development of the textile industry as a whole in the last five years has been relatively slow, and that there was a steady decline in industrial activity in 1929 in all the countries under review, excepting the United States. The activity in the textile industry in the United States has closely followed the general economic development in that country. It increased steadily until the middle of 1929, but declined suddenly towards the end of the year.

In studying the table, however, it is necessary to bear in mind, first, that certain important textile countries, — such as, for instance, Czechoslovakia, Italy and Switzerland — are omitted; and, secondly, that the indices are composite and are, in some cases, unduly raised by the inclusion of artificial silk. In all cases the computations are made with fixed weights and do not, therefore, take into account the very substantial fall in the price of artificial silk in the last few years. They refer to quantities and not to values. They indicate the volume of production but not the profits earned.

Cotton

In Table XX below is given the consumption of raw cotton in all the countries for which the Federation of Master Cotton Spinners' Associations obtains information. The original figures are converted into metric tons at the rates indicated at the foot of the table. It should be observed that the scope of the statistics is not quite worldwide and that the Continental totals refer to those countries from which the facts have been ascertained and not necessarily to the whole area of the respective continents.

TABLE XX

COTTON MILL CONSUMPTION FROM 1924-25 to 1928-29. Metric tons (000's omitted).¹

	А	merican c	otton			East 1	ndian	cotton			Egyp	tian c	otton	
Countries	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} 25 - 1926 - \\ 26 & 27 \end{array}$	1927 - 28	1928 - 29	1924 - 25	1925 - 26	1926 - 27	$\frac{1927}{28}$	1928 - 29	$\frac{1924}{25}$	1925 - 26	$\frac{1926}{27}$	$\frac{1927}{28}$	1928 - 29
North America	$\begin{array}{c}1,210\\32\\1,178\\1,\end{array}$	$\begin{array}{c c} 273 \\ 41 \\ 231 \\ 1,374 \end{array}$	$1,343 \\ 39 \\ 1,304$	$egin{smallmatrix} 1,399\ 44\ 1,355 \end{split}$	5 — 5	4 4	4 	4 4	5 	37 — 37	41 1 40	$49 \\ 3 \\ 46$	43 1 42	48 3 45
Caribbean and S. America Brazil Mexico		$\begin{array}{c c} 1 & - \\ - & - \\ 1 & - \end{array}$								1 				
Asia	$154 \\ 14 \\ 2 \\ 138$	202 350 24 55 2 70 176 226	302 59 28 215	286 56 10 220	623 51 351 221	640 73 302 265	629 69 328 233	$507 \\ 46 \\ 275 \\ 186$	$564 \\ 60 \\ 281 \\ 223$	14 — 3 11	12 	14 — 1 13	13 1 1 11	13 — 1 12
Europe : Including U. S. S. R Excluding U. S. S. R	$ \begin{array}{c} 1,268 \\ 1,206 \\ 1, \end{array} $	$255 \begin{array}{c} 1,372 \\ 201 \end{array} \\ 1,294 \end{array}$	$1,415 \\ 1,317$	$1,302 \\ 1,224$	193 193	$\frac{184}{184}$	$\begin{array}{c} 140\\ 140\end{array}$	$\begin{array}{c} 162 \\ 162 \end{array}$	200 200	227 215	$210 \\ 196$	$\frac{224}{203}$	218 197	222 205
Belgium	30 68 161	35 41 71 81 167 165 150 240	43 87 165	44 75 165	22 18 24	23 15 24	19 10 24	22 12 27	26 14 32	6 6 31 17	1 6 31 12	1 7 29	1 8 28 18	2 7 31 20
Germany	183 21 128 33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	255 29 141 64	204 30 149 42	32 4 43 4	30 4 38 3	20 4 28 5	32 5 27 4	38 6 34 3		12 — 15 2	13 — 14 4	10 — 14 3	15 5
United Kingdom U. S. S. R Various countries n. e. i	468 62 14	418 415 54 78 10 15	389 98 14	381 78 23	27 — 5	25 6	12 — 4	18 — 4	27 7	129 12 3	114 14 4	107 21 5	104 21 4	106 17 4
Total Total as percentage of 1924-25.	$\frac{2,646}{100}$ $\frac{2}{2}$,	$ \begin{array}{r} 740 \\ 104 \\ \hline 3,149 \\ 119 \\ 119 \\ \end{array} $	$\frac{3,075}{116}$	$\frac{3,009}{114}$	826 100	834 101	778 94	677 82	775 94	282 100	<u>267</u> 95	292 104	278 99	287 102

Countries	Sundries						Total					Consump- tion as percentage of world total	
	1924 - 25	1925 - 26	$\frac{1926}{27}$	$\frac{1927}{28}$	1928 - 29	1924 - 25	1925 - 26	1926 - 27	$\frac{1927}{28}$	1928- 29	1924 - 25	$\frac{1924}{25}$	1928 - 29
North America	13	12	13	13	11	1,265	1,330	1,478	1,403	1,463	116	28	29
Canada						32	42	41	40	47	147	1	1
United States	-13	12	13	13	11	1,233	1,287	1,437	1,363	1,416	115	27	28
Caribbean and S. America	144	200	125	148	127	145	201	125	148	127	88	- 3	3
Brazil	106	156	- 89	110	94	106	156	89	110	94	89	2	2
Mexico	38	44	37	- 38	- 33	38	45	37	38	33	87	1	1
Asia	304	261	272	329	296	1,095	1,115	1,265	1,151	1,159	106	25	23
China	239	229	237	281	256	304	326	361	387	372	122	7	7
1ndia	14	7	12	11	12	370	313	411	315	304	82	8	6
Japan	50	26	23	37	28	420	477	495	449	483	115	9	10
Europe:													
Including U.S.S.R	234	397	343	406	457	1,922	2,046	2,079	2,201	2,181	113	43	44
Excluding U.S.S.R	87	111	141	147	117	1,701	1,692	1,778	1,823	1,746	103	38	35
Belgium	2	3	5	2	11	60	62	66	78	83	138	1	2
Czechoslovakia	1	1	1	1	1	93	93	- 99	108	97	104	2	2
France	10	15	40	15	16	226	237	258	235	244	108	5	5
Germany	5	4	5	7	6	237	222	292	312	268	113	5	5
Holland		1	1			25	29	31	34	36	144	1	1
ltaly	4	4	4	4	38	191	199	182	186	236	124	4	5
Poland	2	1	1	2	1	41	38	64	73	51	124	1	1
United Kingdom	55	74	96	95	68	679	631	630	606	582	86	15	12
U. S. S. R	147	286	202	259	340	221	354	301	378	435	197	5	9
Various countries n.e.i	12	21	25	34	36	34	-41	49	56	70	206	1	1
Total		890	778	929	926	4,461	4,731	4,997	4,959	4,997	112	100	100
Total as percentage of 1924-25.	100	126	110	131	131	100	106	112	111	112	112	—	

Source: International Cotton Bulletin.

¹ Bales have been converted to metric tons according to the following rates : American cotton and sundries 1 bale = 440 lb. = 199.581 kg. Indian cotton 1 bale = 330 lb. = 149.685 kg. Egyptian cotton 1 bale = 640 lb. = 290.299 kg.

The consumption of cotton in the last year given was somewhat over 500,000 tons greater than in 1924-25. Although the section of the industry spinning the finer counts is in general more prosperous than are the other branches, the whole of this increase was constituted by American cotton and the miscellancous crops. The consumption of Indian cotton diminished slightly, but this fact is of no great significance as the crops in the first two years given in the table were exceptionally heavy.

During the last three years the amount of cotton consumed has been practically stationary. But this is due to the fact that during this period the takings of the Russian mills have steadily increased, and there has been a similar increase in the use of cotton in some of the minor producing countries, grouped together at the bottom of the table. If these two users of cotton be ignored, it will be found that the consumption in the year ending July 31st, 1929, was lower in all the continental groups (excepting South America, where the change was slight) than it was in the commercial year 1926-27. It is this fact which gives the true picture of the situation. Amongst the countries in which there has been a material falling-off may be mentioned the following :

	1926-27	1927-28	1928-29
United Kingdom	100	96	92
Germany	100	107	92
Poland	100	114	80
India	100	77	74

In the carlier post-war years there was an important change in the centres of production, Asia greatly increasing her share. During the last two or three years, however, this tendency has ceased to operate and Asiatic consumption has slightly fallen off.

The following table gives indices of the development of the actual production of yarn and of cloth separately for the limited number of countries for which production statistics are available. The interesting fact which the table adds to the information afforded by the statistics of raw cotton consumption is the steady rise in yarn production in Belgium, a rise which is in striking contrast to the exports of yarn.

Country	1926	1927	1928	1929
America :				
$Canada^1$	113	114	113	113
United States ²	105	117	103	111
Asia :				
$China^{3} \cdot \cdot$	106	99	108	
India ³	95	112	112)
Japan ³	110	107	104	
Europe :				
Belgium ³	116	128	136	
France ⁵	103	98	106	106
Germany ⁴	84	116	105	103
Italy ³	100	87	97	
United Kingdom ⁶	84	93	85	
U. S. S. R. $\overset{\circ}{}$	128	161	167	

TABLE XXI (a). ACTIVITY IN THE COTTON-SPINNING INDUSTRY.

1925 = 100.

Production index of the Monthly Bulletin of Business Statistics, based on raw cotton imports.
 Production index of the Federal Reserve Board based on cotton consumption.

³ Actual quantities of yarn produced.
⁴ Production index of the Institut für Konjunkturforschung, based on output of yarn.

⁵ Average production per spindle.
⁶ Production index of the London and Cambridge Economic Service based on cotton consumption.

TABLE XXI (b).

ACTIVITY IN THE COTTON-WEAVING INDUSTRY.

1925 = 100.

Countries	1926	1927	1928
America :United States 1 Asia :India $^1(a)$ Japan 14 Europe :France 2 Germany 3 Italy 1	116 108 103 100 97	116 121 110 96 115 87	95* 119 97 111 111
U. S. S. R. ¹ (b)	135	153	167

¹ Actual quantities of cloth produced.

² Average production per loom.
³ Looms active; based on 1926 = 100.
⁴ Production of mills affiliated to the Japan Cotton-spinners' Association.

(a) Economic years beginning April 1st.
(b) Economic years ending September 30th.
(*) Provisional figure.

Unfortunately, data for 1929 are only available for one or two countries. But the generality of the depression through which the cotton industry is passing can be judged by the following figures showing the number of weeks of forty-eight hours during which the total number of spindles from which returns were received were stopped. The figures refer to the half-years ending January 31st, 1926, 1927, 1928 and 1929.

TABLE XXII.

SHORT-TIME IN THE COTTON INDUSTRY.

[Number of Weeks of Forty-eight Hours during which the Total Number of Spindles were stopped.]

Countries	Half-year ending January 31st			
	1926	1927	1928	1929
North America ¹	9 949	0.092	0.257	2 476
	4.24	0.025	0.557	0.470
Caribbean and South America				
Brazil	_	8.992	1.317	4.927
Mexico	1.092	0.883	0.112	3.156
Asia				
China	3.000	9,170	17.812	9.982
Japan	6.556	4.054	10.958	12.072
Europe				
Austria	6 241	0 203	5 460	7 990
Belgium.	0.241 0.546	9.203	0.688	0.750
Czechoslovakia	0.010	4 629	- 2	0.150
Denmark	2.226	3.001	1.489	1 612
Finland	0.038	0.824	0 193	0 589
France	0.729	0.822	1.335	0.897
Germany	1.410	2.206	1.098	1.976
Italy	0.397	1.337	2.949	3.616
Netherlands	_	0.049	0.026	0.008
Norway	8.290	4.964	2.805	5.304
Poland	4.618	2.136	1.396	2
Portugal	0.879	0.048	0.057	0.072
Spain	9.099	8.571	5.166	7.799
Sweden	1.842	1.036	0.574	1.273
Switzerland	0.418	1.069		1.495
United Kindgom	3.652	6.040	4.544	4.393

Source: International Cotton Bulletin.

¹ Figures for the United States are not available. In January 1929, 30,758,000 spindles were operating out of a total of 35,335,000.

² Overtime worked.

Only in five out of the nineteen countries given for 1929 was there any improvement in the last half-vear given. In France, Poland and China the increase in employment was considerable.

Large as the trade in cotton goods is, most production is, nevertheless, for domestic purposes. According to an unofficial estimate made by one expert body.¹ less than 10 per cent of the cotton varns and less than 20 per cent of the cotton cloth produced enters to-day into international trade. Exports are, however, The total exports of varn declined vital to certain national industries. substantially in 1928-29 and the value of the exports of piece-goods fell steadily throughout the whole guinguennium. The latter figures, however, are affected by the decline in prices. Certain features of the question of the trade in cotton goods has been referred to in a companion volume² and need not be discussed here. Attention may, however, be drawn to the fact that the weight of the exports of varn from Japan dropped between 1925 and 1928 by about 76 per cent and the value of the exports of British piece-goods by about one-third.

Wool.

The statistics of raw wool production should not be accepted as more than expert estimates. They probably reflect fairly, however, the general trend of development. Wool production and consumption were somewhat lower than before the war until about 1925. Since that date, there was a steady expansion, which by 1928 amounted to about 13 per cent. But the activity of the woollen industry in three of the four leading manufacturing countries has declined in the last few years, as is in part shown by the following table.

TABLE XXIII.

ACTIVITY IN THE WOOL INDUSTRY.

00	~	-11	Δ	n	
92	Ð	 E	U	U	

Country	1926	1927	1928	1929
America : United States ¹	97	104	102	111
<i>Europe</i> :				
France ²	107	1.01	110	104
Germany ³	98	112	98	
United Kingdom 4	111	112	106	

¹ Production Index of the Federal Reserve Board based on raw wool consumption.

² Production Index of the "Statistique Générale" based on wool conditioned at Roubaix-Tourcoing and Mazamet.

³ Actual production values of the wool industry (Wirtschaftsdienst, 1930, page 53).
⁴ Annual Production Index of the London and Cambridge Economic Service, based on raw wool consumption.

¹ The Manchester Cotton Trade Statistical Bureau.

² League of Nations, Memorandum on International Trade and Balances of Payments, 1926-28, Vol. I.

As may be seen from the above table, activity in Germany and the United Kingdom declined in 1928 and that in France in 1929. It would appear that the difficulties in the first two countries were accentuated in 1929. Unemployment in the British woollen industry increased from 11.7 per cent to 13.9 per cent and in the German industry employment (fully occupied workers, excluding short time) fell by about 7 per cent.

Production in the United States, on the other hand, showed an average increase of nearly 9 per cent in 1929, but it would appear that it declined markedly towards the end of that year.

The German index is, of course, affected by prices, which have fluctuated appreciably in recent years and tended to decline since the beginning of 1928. It has been, no doubt, further affected by the relatively weak domestic demand. German exports rose steadily from 1926 to 1928 as Table XXIV, showing the dollar value of the exports of woollen and worsted yarns and woollen piece-goods, shows :

TABLE XXIV.

EXPORTS OF WOOLLEN GOODS.

Country	V	Voollen tissues	3	Woollen and worsted yarns $^{\rm 1}$			
	1925 1927		1928	1925	1927	1928	
Belgium Czechoslovakia . France Germany Italy	6,046 32,308 68,920 50,673 18,237 176,680	5,586 35,118 62,514 64,532 11,964 162,240	5,006 36,118 63,726 66,537 12,905	$18,887 \\ 13,762 \\ 34,698 \\ 21,991 \\ 2,026 \\ 57,104$	$18,361 \\ 17,447 \\ 68,186 \\ 22,678 \\ 5,560 \\ $	$18,777 \\17,343 \\57,131 \\29,063 \\5,644 \\57,024$	
Total	352,864	347,054	355,238	148,558	188,965		

\$ (000's omitted).

¹ Tops, noils, rags, carpets, shawls and blankets excluded.

The above table affords a rather more favourable picture of the situation in 1928 than do the production indices; this must be attributed in part, no doubt, to the fact that production precedes export.

Silk.

Little comparable information is available for the natural silk industry. The production of raw silk has advanced from 48,100 metric tons in 1925 to about

58,100 metric tons in 1928. This is primarily due to production increasing in the Far East by over 23 per cent. In Europe, it remained relatively stable, rising but slightly. It has declined year by year in Greece from 320 metric tons in 1925 to 205 metric tons in 1928 and has simultaneously risen in Italy from 4,380 to 4,836 metric tons.

The most important silk industries are those of the United States, France, Italy, Germany, Switzerland and Great Britain. Table XXV gives such indices of production as are available.

TABLE XXV.

ACTIVITY IN THE SILK INDUSTRY.

1925 = 100

Country	1926	1927	1928	1929
America : United States of America ¹	100	110	114	124
Europe : France ²	$105 \\ 84 \\ 86 \\ 106$	87 118 98 97	110 108 112	91

¹ Silk deliveries to mills.

² Production index of the "Statistique Générale", based on silk conditioned at Lyons.

³ Actual values of silk weaving (Wirtschaft und Statistik, 1929, page 80).

 ⁴ Actual quantities of silk yarn produced.
 ⁵ Annual production index of the London and Cambridge Economic Service, based on production of silk thrown and spun.

It will be seen that production has undergone considerable year-to-year fluctuations. In 1928, there was a general improvement in practically all important manufacturing countries. This was followed, however, by rapid reaction in 1929, which, in the last months of the year, became acutc.

Artificial Silk.

Of the various branches of textiles, the artificial-silk industry has expanded by far the most in recent years. As shown in Table XXVI, the aggregate output more than doubled between 1925 and 1929.

TABLE XXVI.

ACTIVITY IN THE ARTIFICIAL SILK INDUSTRY.

Countries	Produc artific Metric to	etion of ial silk. ons (000's)	Production in 1926-1929 as percentage of that in 1925			Production as percentage of world total		
	1925	1929	1926	1927	1928	1929	1925	1929
America	24.1	61.3	124	147	191	254	27.8	31.1
United States	23.5	59.6	123	146	189	253	27.1	30.3
Asia.								
Japan	1.3	8.2	179	393	513	643	1.5	4.2
<i>Europe</i>	61.5	127.2	114	153	187	207	70.8	64.7
Belgium	5.0	6.8	119	123	136	136	5.8	3.5
France	6.5	16.8	122	147	209	258	7.5	8.5
Germany	11.8	25.0	115	154	202	212	13.6	12.7
Italy	14.0	32.3	119	174	186	231	16.1	16.4
Netherlands	4.0	9.1	153	187	204	227	4.6	4.6
Switzerland	2.8	5.6	130	168	194	199	3.2	2.8
United Kingdom .	13.5	24.1	86	130	175	178	15.6	12.2
Other countries .	3.9	7.6	115	159	192	196	4.4	3.8
WORLD	86.8	196.7	118	155	193	227	100.0	100.0

In contrast to the concentration of the industry in a few European countries before the war, the post-war period has witnessed a noteworthy geographical extension. The United Kingdom, Germany, France, and Belgium were, in 1913, probably responsible for over 80 per cent of the world output. Their share was only 43 per cent in 1925 and not more than 30 per cent in 1929. The most remarkable progress was made in Italy and the United States in the first years after the war, and in Japan during the last quinquennium: the output of the Japanese industry increased in this period by over 370 per cent. However, demand has failed to keep pace with this general increase in output. A stagnation began to make itself apparent in European industries (except in that of the Netherlands) as early as 1928, when stocks accumulated and prices declined. Production in the United States, however, continued to expand until the latter part of 1929. Excepting in 1927, the trade in artificial silk has kept pace with production, as the following table shows :

TABLE XXVII.

EXPORTS OF ARTIFICIAL SILK.

			1929 as percent-			
Countries	1925	1926	1927	1928	¹ 1929	age of 1925
Belgium	33.2	32.2	37.2	39.8	31.6	95
France	6.4		48.4	50.5	60.2	941
Germany	38.0	36.6	44.1	62.8	91.3	240
Italy	72.0	97.9	147.0			220
Netherlands	30.4 10 7	00.4 00.5	12.0	11.0 27 G	88.9 20.1	291
United Kingdom	10.1 32.7	29.5	37 9	43 3	39.1 37.0	209
Childe Kingdom				10.0		
Total \ldots	232.0	289.0	320.5	461.8	507.7	219
Total in millions of dollars	63.3	61.2	78.5	92.4	72.6	115
Average price in dollars per quintal	272.8	211.7	244.8	200.0	143.0	52
Quantities	100	125	138	199	219	
Indices of Exports Values	100	97	124	146	115	
(Prices	100	77	90	73	52	

Source : National foreign trade returns.

¹ Preliminary figures.

But while the weight of exports in 1929 was over double that of 1925, the decline in prices has been so great that values were only up by 15 per cent. The quantitative indices, therefore, though they lose nothing of their significance from the point of view of the consumer, must not be taken as indicating the financial prosperity of the productive enterprises. The above table is of particular interest as showing the enormous changes that have taken place in the relative importance in international trade of the various competing countries. In the five-year period, the exports of France increased over ninefold, those of the Netherlands almost trebled, and those of Germany rose from 38,000 to over 91,000 quintals. On the other hand, the exports of the United Kingdom and Belgium have expanded but slightly compared with these countries and, indeed, showed a definite contraction in the last year under review. In the beginning of this period they both exported about the same amount and but little less than Germany, which was and remains the second biggest source of supply. By 1929, they had been outstripped by all of their five major competitors. By far the largest exporter is Italy, whose sales in 1929 amounted to 160,000 quintals.

V. THE RELATIVE MOVEMENTS IN THE PRICES OF RAW PRODUCTS AND MANUFACTURED ARTICLES.

In previous issues of this MEMORANDUM, a tentative approach has been made to the problem of the relationship of prices of raw products and manufactured articles. On the ratio of the prices of these two groups of commodities, the productive activity (and incidentally the foreign trade) of different classes of producers and different countries is largely dependent, and the problem is therefore one of very great practical importance. In the present chapter, the analysis of certain of the somewhat inadequate available data is continued.

For the reason set out in the preface, the relative price movements that have taken place since 1913, and not only those of the past few years, will be studied. Comparison with pre-war years is particularly difficult owing to the inadequacy of the data concerning the prices of manufactured products. The lack of information is not simply due to the fact that students of prices have unduly concentrated on raw materials and foodstuffs or that standard manufactured articles at any given date are relatively few in number. Methods of production have undergone important modifications: demand has changed and the products of industry, even when bearing the same name as in 1913, are often no longer the same. Even when price data are available, therefore, they frequently fail to measure identical goods. It is partly in consequence of this difficulty that the amount of carcfully sifted data that is available is remarkably small. It is therefore not advisable to rely on any single line of enquiry or to endeavour to prove thereby the character or the degree of change that has taken place. It is preferable — in the first instance, at any rate - to select evidence as independent in origin as possible, to apply a number of different tests, and to ascertain whether the data thus drawn from different sources tend to point in a like direction. Four sources of evidence — none of them in itself wholly satisfactory, or by itself adequate - are in fact available.

First, in certain countries, the indices of wholesale prices are composed of groups that embrace respectively raw materials, semi-manufactured articles and finished products. Secondly, it is possible to obtain price quotations in some markets for raw materials and for the articles manufactured therefrom. Thirdly, price indices of the goods entering into the external trade of a number of countries whose imports or exports are mainly composed of raw materials or manufactured articles are available. Fourthly, something may be learnt from a comparison of wholesale and retail price indices.

- 62 --

The evidence drawn from these four sources pointed in previous years to the conclusion that the prices of individual manufactured goods had, in the great majority of cases for which information was available, risen more since before the war than those of the raw materials from which they are made, and that, in certain important areas of the world, manufactured goods as a whole had risen more in price than raw products. It will be shown below, that this price discrepancy continued to exist in 1928 and 1929, though to what extent it may be explained by improvement or change in the quality or nature of the manufactured articles it is impossible to state. Further, it does not necessarily follow from this that, if it were possible to compute world indices for raw materials and for manufactured products, the discrepancy between these indices would be similar to that which the evidence considered below suggests. In the first place, a number of manufactured products are in everyday popular use now that were scarcely obtainable or were not obtainable before the war - wireless receiving-sets and many classes of knitted overgarments may be quoted by way of illustration. Secondly, changes of great significance have taken place in the relative importance of the consumption of goods which were in use in 1913. The growth of the motor-car and electrical and aluminium industries, for instance, has been such that any price index of manufactured goods based on 1913 weights implies a hypothesis which is not in conformity with facts.

If the evidence to be considered, therefore, points to the conclusion that the prices of individual manufactured products have risen more than those of raw materials and foodstuffs in certain countries, it must not be presumed that it is necessarily true that the prices of manufactured goods as a whole are likewise, and to the same extent, higher than those of raw materials and foodstuffs as a whole. There is, indeed, a strong presumption that they are higher. But the present analysis is at least insufficient to measure the amount of such discrepancy. Moreover, as will be shown later, although all the evidence points to the conclusion that the prices of those particular manufactured commodities which it is possible to compare in the years considered rule, as a whole, relatively higher than the prices of the raw materials from which they are manufactured, the discrepancy which exists to-day is appreciably less than it was some years ago.

Unfortunately, very few countries publish indices of wholesale prices in such a form as to permit of a clear distinction being made between goods in various stages of manufacture. In the following table, indices for eight countries are given. The figures show the average prices for the years 1928 and 1929. Two systems of classification or a combination of these two are adopted. According to one system, the commodities are divided into raw materials, semi-finished and finished goods, and, according to the other, into consumers' and producers' goods. Consumers' goods may be taken as roughly equivalent to finished products including foodstuffs; producers' goods are nearer akin to semi-manufactured products, although they include industrial machinery and tools. Thus, in the case of Sweden, under consumers' goods are included various textile fabrics, stockings, boots and shoes, flour, meat, etc., and under producers', various grains and animals, iron ore and pig-iron, metal sheet and wire, building materials and varns.

TABLE XXVIII.

COMPARATIVE PRICES ; AVERAGES FOR 1928 AND 1929.

Country	Year	Raw materials	Semi- finished products	Finished products	Produ- cers' goods	Consu- mers' goods	General index
Canada	1928	1	53 1	47	143	154	151
	1929	1	53 1	44	142	153	149
Denmark	1928	1:	34			173	153
	1929	13	33			169	150
Germany	1928	1	34	159	137	175 4	140
v	1929	1	32	157	139	172 4	137
Italy ¹ (Milan)	1928	490	449	512			491
	1929	464	450	514			481
Norway	1928	157				165	161
	1929	149				158	153
Sweden	1928	144	150	149	140	155	148
	1929	135	141	142	134	145	140
U.S.A. ²	1928	101	82	98			97
	1929	99	81	97			96
U.S.S.R	1928	157 ³		188			172
	1929	171 ³		188			179

1913 = 100.

¹ Revised index, excluding foodstuffs of domestic origin.

² Base 1923, converted from 1926 base.
³ Agricultural products.

⁴ Excluding foodstuffs.

The evidence afforded by this table is striking. In Denmark, Germany, Italy, Norway, Sweden and the U.S.S.R., the indices for finished products or consumers' goods lie well above those for materials in earlier stages of manufacture. The Italian index for semi-manufactured products is, however, considerably lower than that for raw materials, a fact which is to be attributed in part to the influence of textiles and chemicals.

The two series shown for Canada point to opposite conclusions. The first, which shows a movement contrary to that of the other countries considered, has the disadvantage of not showing either raw materials or manufactured articles alone; special indices for the five groups of commodities in their raw and manufactured state have, however, been compiled and are given below for the vears 1928 and 1929.

	195	28	1929		
	Prod	ucts	Products		
Articles of :	Raw and semi- manufactured	Manufac- tured and mainly manufac- tured	Raw and semi- manufac- tured	Manufac- tured and mainly manufac- tured	
Farm origin :					
Field	154	157	153	152	
Animal	157	144	157	145	
Marine origin	116	170	123	175	
Forest origin	148	181	150	163	
Mineral origin	142	129	145	131	

It will be noted that, in general, the figures for goods manufactured from articles of farm and mineral origin are lower than those for the raw materials constituting these groups. The term "farm origin" is used by the compilers of the index in its widest sense, and embraces such articles as cotton fabrics, fibre products, etc.

The composition of the two divisions — raw materials and manufactured products — into which the group indices are separated is not identical. The indices do not therefore indicate exactly the difference in average prices for similar commodities according to their stage of manufacture. Table XXIX (given below on pages 67 and 68), which sets out the prices of certain individual commodities classified according to their stage of manufacture, presents results which are in direct contradiction to those for the farm products and mineral groups contained in the above table.

The partial indices of the second series, those relating to producers' and consumers' goods, cover groups which are more clearly divided according to stages in manufacture.

	Producer	rs' Goods	Consumers' Goods		
Producers' materials		Producers' equipment (tools, heat and power equipment, etc.)	Foods, beverages and tobacco	Other (clothing, household goods)	
1928 1929	$139.3\\136.9$	$\frac{170.1}{171.5}$	161.3 160.5	$\begin{array}{c} 149.4 \\ 146.3 \end{array}$	

"Producers' materials " may be taken as roughly equivalent to industrial raw materials, and " producers' equipment " on the one hand and " consumers' goods other than foodstuffs " on the other as roughly equivalent to finished goods. It will be observed that the price relationship witnessed by these series has been the same as in the other countries considered.

The figures given for the United States of America in Table XXVIII are not comparable with those of the other countries, as they are based on the year 1923. This is to be regretted, as it might be expected that, in those countries in which the newer industries not producing prime necessities of life have made exceptional progress, the discrepancy between the prices of manufactured goods and raw materials would be of an order different from that which characterises other countries.

Of some value in this connection, however, is the grouping employed in the revised index of the Department of Labor, which shows :

		Average			
		1 913	1927	1928	1929
1. Farm products		100	138	137	135
2. Foodstuffs		100	150	157	155
3. Textile product	ts	100	167	179	164
4. Hides and skir	ns	100	159	179	160
5. Fuel and light	ing	100	141	135	140
6. Metals and me	tal products	100	108	110	115
7. Chemicals		100	120	119	118
8. House-furnishin	ng goods	100	174	165	172
9. Miscellaneous		100	97	89	86

The sixth group includes motor-cars, agricultural implements, etc., in addition to crude metal products; the ninth, paper and pulp, rubber, rubber tyres, etc. The low indices of these groups are in striking contrast at once to those for agricultural products and for such standard pre-war industrial products as those represented in the textile group.

TABLE XXIX.

RELATIVE CHANGES IN THE PRICES OF INDIVIDUAL COMMODITIES OR GROUPS OF COMMODITIES ARRANGED ACCORDING TO STAGES OF MANUFACTURE

(Base period for indices : 1913.) A. UNITED STATES OF AMERICA

Generalities]	Indices		Percentage changes in relative value			Commodition	Indices			Percentage changes in relative value		
Commodities	1926	1927	1928	1926	1927	1928		1926	1927	1928	1926	1927	1928	
	Rye	150 179	165 182	178 204	$100 \\ 119 \\ 100$	$ \frac{100}{110} $	$100 \\ 115 \\ 100$	Wool ,, yarn ,, underwear	182 185 176	$177 \\ 176 \\ 176 \\ 176$	$216 \\ 200 \\ 188$	$100 \\ 102 \\ 97$	100 99 99	100 93 87
	Oats	$115 \\ 124 \\ 171$	$132 \\ 142 \\ 156$	148 150 151	$100 \\ 108 \\ 100$	$\frac{100}{108}$	$\frac{100}{101}$	Silk, raw, yarn	$\begin{array}{c}163\\172\end{array}$	$\begin{array}{c}144\\143\end{array}$	139 133	$\frac{100}{106}$	$\begin{array}{c} 100 \\ 100 \end{array}$	100 96
	,, flour ,, bread	189 199	$174 \\ 198$	167 191	$111 \\ 116$	$112 \\ 127$	$\frac{111}{126}$,, hosiery Iron ore	$\frac{131}{114}$	$\frac{123}{114}$	$\frac{141}{114}$	$\frac{80}{100}$	$\frac{85}{100}$	$\frac{101}{100}$
	Cattle Beef, fresh ,, salt	$\begin{array}{r}112\\124\\112\end{array}$	$\begin{array}{r}150\\143\\105\end{array}$	$170 \\ 172 \\ 143$	$\begin{array}{c}100\\111\\100\end{array}$	100 95 70	$100 \\ 101 \\ 84$	Pig iron Bar iron Skelp Wire and nails	$ 124 \\ 181 \\ 137 \\ 161 $	119 169 132 145	$ 112 \\ 167 \\ 136 \\ 147 $	$ 109 \\ 159 \\ 120 \\ 141 $	$ 104 \\ 148 \\ 116 \\ 127 $	$ \begin{array}{r} 98 \\ 146 \\ 119 \\ 129 \\ \end{array} $
	Hogs Pork, fresh Hams	$155 \\ 181 \\ 176$	$125 \\ 160 \\ 148$	$117 \\ 149 \\ 137$	$100 \\ 117 \\ 114$	$100 \\ 128 \\ 118$	$ \begin{array}{c c} 100 \\ 127 \\ 117 \end{array} $	Cutlery Sewing-machines	217 194	$ \frac{217}{197} {89} $	$\frac{217}{190}$	$ \begin{array}{r} 190 \\ 170 \\ \hline 100 \end{array} $	$ 190 \\ 173 \\ 100 $	$ 190 \\ 167 \\ 100 $
	Cotton	$133 \\ 145$	136 142	$153 \\ 150$	$100 \\ 109$	$\frac{100}{104}$	$\begin{array}{c} \hline 100 \\ 98 \end{array}$	wire	$\frac{96}{102}$	$\frac{62}{97}$	$\frac{100}{143}$	$100 \\ 109 \\ 100$	$\frac{100}{118}$	$100 \\ 108 \\ 100$
	,, thread ,, cloth	186 142	186 144	186 146	140 107	137 106	122 95	, pipe	$192 \\ 195 \\ 132 $	$162 \\ 113$	$\frac{110}{153}$	$100 \\ 102 \\ 100$	$\frac{100}{105}$	$100 \\ 107 \\ 100$
	,, hostery ,, underwear	$\frac{197}{191}$	$\frac{198}{174}$	$\frac{201}{175}$	$148 \\ 144 \\ 100$	$140 \\ 128 \\ 100 $	$\frac{131}{114}$, sheet	$\frac{132}{146}$	$\frac{110}{128}$	$\frac{100}{121}$	$100 \\ 111 \\ 100$	$\frac{100}{100}$	$100 \\ 111 \\ 100$
	Hides, cow	$\frac{63}{109}$	$\underbrace{\begin{array}{c}99\\117\end{array}}^{99}$	$\frac{121}{135}$	$\frac{100}{173}$	100	100	,, plate ,, tumblers	$\frac{150}{152}$	$\frac{124}{139}$	$\begin{array}{r}121\\150\end{array}$	$\begin{array}{c}107\\109\end{array}$	$\begin{array}{r} 93\\104\end{array}$	87 108
	Skins, calf, shoes	$\begin{array}{r} 92 \\ 155 \end{array}$	$\frac{104}{155}$	$145 \\ 157 \\ \hline$	$100 \\ 168 \\ 100$	$100 \\ 149 \\ 100$	$100 \\ 108 \\ 100$	Wood, pulp (chemical) Paper, newsprint	$129 \\ 167 \\ 100$	118 157	113 157	100 129	100 133	100 139
	Skins, goat Shoes, kid	$103 \\ 145$	$106 \\ 143$	110	100 141	100	$100 \\ 134 \\ 100$	Yellow pine, timber	$186 \\ 190 \\ 106$	$100 \\ 174 \\ 167$	167	144 100 102	$141 \\ 100 \\ 06$	100
	Milk, fresh Butter, cheese, etc	$\begin{array}{c}148\\142\end{array}$	$\begin{array}{c c}150\\153\end{array}$	$\begin{array}{c} 145 \\ 143 \end{array}$	100 96	100 102	99	Flooring	196	138	135	74		81
						В	. <i>C</i> .	INADA						
		1926	1927	1928	1926	1927	1928		1926	1927	1928	1926	1927	1928
	Sugar, products	$\begin{array}{c} 130 \\ 143 \end{array}$	$\begin{array}{c} 143 \\ 149 \end{array}$	$\begin{array}{c} 125\\ 138 \end{array}$	$\begin{array}{c} 100 \\ 110 \end{array}$	$\begin{array}{c} 100 \\ 104 \end{array}$	$\frac{100}{110}$	Lumber, timber Pulp Paper	148 156 176	149 148 173	$ \begin{array}{c c} 152 \\ 144 \\ 172 \end{array} $	$ 100 \\ 105 \\ 119 $	$100 \\ 99 \\ 116$	$100 \\ 95 \\ 113$
	Grains Flour Bakery products	$ 164 \\ 166 \\ 191 $	166 158 194	$ 154 \\ 158 \\ 191 $	$ 100 \\ 101 \\ 116 $	$ 100 \\ 95 \\ 117 $	$ 100 \\ 103 \\ 124 $	Furniture	<u>195</u> 128	$\begin{array}{c} 195 \\ 122 \end{array}$	195	$\frac{132}{100}$	$\frac{131}{100}$	$\frac{128}{100}$
	Cotton, raw	$101 \\ 144 \\ 158$	$142 \\ 147$	$165 \\ 157$	$100 \\ 110$	$\begin{array}{c} 100\\ 104 \end{array}$	$\frac{100}{95}$	Rolling mill prod Hardware	$\begin{array}{r}149\\165\end{array}$	$\begin{array}{r}148\\159\end{array}$	$\begin{array}{c} 143 \\ 154 \end{array}$	$\begin{array}{c} 116\\ 129 \end{array}$	$\begin{array}{c} 121 \\ 130 \end{array}$	$\begin{array}{c} 123 \\ 133 \end{array}$
	", fabrics Live-stock	$\begin{array}{c c} 181 \\ \hline 127 \end{array}$	$\frac{166}{115}$	$\frac{171}{156}$	$\frac{126}{100}$	$\frac{117}{100}$	$\frac{104}{100}$	Copper	$\begin{array}{c} 101 \\ 107 \end{array}$	95 99	$\begin{array}{c} 105 \\ 107 \end{array}$	$\begin{array}{c} 100 \\ 106 \end{array}$	$\begin{array}{c c} 100\\ 104 \end{array}$	$\begin{array}{c c} 100 \\ 102 \end{array}$
	Meat, canned and cured	$\begin{array}{c} 145 \\ 171 \end{array}$	$\begin{array}{c} 141 \\ 141 \end{array}$	$\begin{array}{c} 173 \\ 151 \end{array}$	$\begin{array}{c} 114 \\ 135 \end{array}$	$\begin{array}{c} 123 \\ 123 \end{array}$	111 97	Lead	$\frac{176}{253}$	$\begin{array}{c}145\\225\end{array}$	$\begin{array}{c} 131 \\ 178 \end{array}$	$\begin{array}{c} 100 \\ 144 \end{array}$	$\begin{array}{c} 100 \\ 155 \end{array}$	100 136
	Milk	135 144	$ 142 \\ 146 \\ 125 $	$ \begin{array}{r} 143 \\ 153 \\ 121 \end{array} $	$100 \\ 107 \\ 100$	$100 \\ 103 \\ 100$	$100 \\ 107 \\ 100$	Hides Harness leather Manufactured leather	75 117 131	$ \begin{array}{c c} 110 \\ 126 \\ 133 \end{array} $	$ \begin{array}{r} 136 \\ 148 \\ 149 \end{array} $	$ \begin{array}{c} 100 \\ 156 \\ 175 \end{array} $	$ \begin{array}{c c} 100 \\ 115 \\ 121 \end{array} $	$ \begin{array}{r} 100 \\ 109 \\ 110 \end{array} $
	Manuf.	$107 \\ 194 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 167 \\ 100 $	$135 \\ 181 \\ 141$	$131 \\ 165 \\ 184$	116	100	126	Bricks	$\begin{array}{c} 101 \\ 171 \\ 330 \end{array}$	$176 \\ 330$	178 321	100	100 188	100
	,, yarn Cloth, hosiery	186 220	$186 \\ 226$	184 186 232	$100 \\ 111 \\ 132$	$132 \\ 160$	$101 \\ 126$	Glass, window	$100 \\ 114$	90 111	83	100	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	100
	Fish, fresh	127	129	118	100	100	100	Rubber.	71	54	32	100	100	100

,, dried.....

2.2

canned

Rubber.....

Goloshes.....

TABLE XXIX (continued)

C. GERMANY

Commodities	Indices			Percentage changes in relative value			Commodities	Indices			Percentage changes in relative value		
	1927	1928	1929	1927	1928	1929		1927	1928	1929	1927	1928	1929
Rye	$\begin{array}{c} 157 \\ 165 \end{array}$	$\begin{array}{c} 151 \\ 156 \end{array}$	$\begin{array}{c} 121 \\ 129 \end{array}$	$\begin{array}{c} 100 \\ 105 \end{array}$	$\begin{array}{c} 100 \\ 103 \end{array}$	100 107	Wool	$\frac{195}{257}$	$\begin{array}{c} 201 \\ 266 \end{array}$	$\frac{163}{269}$	$\begin{array}{c} 100\\ 131 \end{array}$	$\frac{100}{132}$	$\begin{array}{c} 100 \\ 165 \end{array}$
Wheat, flour	$\begin{array}{c} 140 \\ 132 \end{array}$	$\begin{array}{c} 123\\115\end{array}$	119 109	$\frac{100}{94}$	100 93	$\frac{100}{92}$	Flax Linen yarn	218 190	$\begin{array}{c} 223\\ 187 \end{array}$	169 174	100 87	$\frac{100}{84}$	$\begin{array}{c} 100 \\ 103 \end{array}$
Cattle Beef	114 118	110 113	$\begin{array}{c} 109 \\ 115 \end{array}$	100 104	100 103	100 106	Cotton ,, yarn, yarn, yarn, yarn, yarn, yarn, yarn, yarn, yarn, tissues Jute ,, yarn, yarn, yarn, yarn, yarn, tissues Sacks , Sacks Hides and skins, Calf leather , Sole leather, Shoes	137 158	$155 \\ 164 \\ 170$	148 155	100 115	100 106	100 105
Pigs Pork	$\begin{array}{c} 110\\119\end{array}$	$\begin{array}{c} 114\\ 124 \end{array}$	$\begin{array}{c} 138\\ 149 \end{array}$	$\begin{array}{c} 100 \\ 108 \end{array}$	100 109	$\frac{100}{108}$		141	179	109	130	115	114
Milk Butter	$\frac{124}{147}$	$\begin{array}{c} 126 \\ 152 \end{array}$	$\frac{121}{148}$	$\frac{100}{119}$	$\frac{100}{121}$	$\frac{100}{122}$		152	159	146	100	100	103
Coal Briquettes	121 151	131 151	137 151	$\begin{array}{c}100\\125\end{array}$	$\frac{100}{115}$	100 110		$ \begin{array}{r} 111\\ 123\\ 117\\ 121 \end{array} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$100 \\ 111 \\ 105 \\ 109$	100 106 103 107	$100 \\ 111 \\ 100 \\ 103$	
Iron ore Pig iron Hardware, tools, etc. * . Machines ‡	$ \begin{array}{r} 115 \\ 113 \\ 125 \\ 136 \\ \end{array} $	$113 \\ 111 \\ 132 \\ 141$	$114 \\ 115 \\ 132 \\ 144$	$ \begin{array}{r} 100 \\ 98 \\ 109 \\ 118 \end{array} $	$100 \\ 98 \\ 117 \\ 125$	$ \begin{array}{r} 100 \\ 101 \\ 116 \\ 126 \end{array} $		$ 111 \\ 108 \\ 125 \\ 137 $	$134 \\ 136 \\ 150 \\ 160$	$92 \\ 98 \\ 122 \\ 143$	$ \begin{array}{r} 100 \\ 97 \\ 113 \\ 123 \end{array} $	100 101 112 119	$100 \\ 107 \\ 133 \\ 155$
Copper, sheets	87 98	96 114	119 133	$\frac{100}{113}$	$\frac{100}{119}$	$\frac{100}{112}$	Pulpwood	128	143		100	100	
Zinc, sheets	$\frac{126}{132}$	111 118	$\begin{array}{c} 109\\117\end{array}$	$\frac{100}{105}$	$\begin{array}{c} 100\\ 106 \end{array}$	100 107	Newsprint paper Paper boards	$151 \\ 148 \\ 169$	$149 \\ 148 \\ 168$	$148 \\ 148 \\ 172$	$ \begin{array}{r} 118 \\ 116 \\ 132 \end{array} $	$104 \\ 103 \\ 117$	$100 \\ 100 \\ 116$

* Kleineisenwaren.
* Composite index.

D. SWEDEN

			1			-							
	1926	1927	1928	1926	1927	1928		1926	1927	1928	1926	1927	1928
Cattle Meat	$\begin{array}{c} 135\\ 149 \end{array}$	$\begin{array}{c} 108\\ 124 \end{array}$	$\begin{array}{c} 119\\ 133 \end{array}$	$\begin{array}{c} 100\\ 110 \end{array}$	$\begin{array}{c} 100\\115\end{array}$	$\begin{array}{c} 100\\112 \end{array}$	Raw textiles Yam Tissues Hides and Skins Leather Shoes Pulp Tar paper Paper	$\begin{array}{c} 123\\ 164 \end{array}$	$\frac{140}{158}$	$\frac{138}{162}$	$\frac{100}{133}$	100 113	100 117
Iron ore Pig iron Iron and steel prod	$110 \\ 127 \\ 134$	110 118 124	111 119 116	$100 \\ 115 \\ 122$	$ \begin{array}{r} 100 \\ 107 \\ 113 \end{array} $	$ \begin{array}{r} 100 \\ 107 \\ 105 \end{array} $		192 81	182 103	190 125	156	130 100	138 100
Wood Wooden articles	147 177	$\frac{150}{183}$	$\frac{148}{185}$	$\frac{100}{120}$	$\frac{100}{122}$	$\frac{100}{125}$		161	118 146	$\frac{141}{162}$	135 199	115 142	113 130
Tallow Candles and soap	$\frac{125}{153}$	111 148	$\frac{123}{146}$	$\frac{100}{122}$	$\frac{100}{133}$	100 119		$171 \\ 155 \\ 176$	$136 \\ 160 \\ 171$	$133 \\ 160 \\ 171$	$100 \\ 91 \\ 103$	$100 \\ 118 \\ 126$	$100 \\ 120 \\ 129$
The general conclusion to be drawn from the composite indices of goods in various stages of manufacture — namely, that there remained in 1928 and 1929, as in preceding years, a general and appreciable alteration in relative values in favour of manufactured articles — is confirmed by the price indices of certain raw materials and articles manufactured therefrom (Table XXIX), quoted in four national markets. The exceptions to this rule are surprisingly few. Moreover, it will be noted that the discrepancy between the relative price levels is greater the higher a commodity is placed in the scale of production.

The indices are based on the annual averages of actual quotations for medium or representative qualities of the articles considered.

The tables necessarily fail to take account of the price movement in new industries and happen not to cover certain important commodities in the manufacture of which marked technical progress has been made. It will be observed, however, that in the great majority of the groups considered the more finished goods remained in 1928 and 1929 relatively higher in price than the raw materials from which they were made.

To the question of recent price tendencies it will be necessary to turn shortly. Before doing so, however, it is desirable to set out the third and fourth groups of evidence, namely, that afforded by indices of foreign trade prices and wholesale and retail price indices. In the following table are compared the export and import price indices of certain countries whose imports and exports

TABLE XXX.

IMPORT AND EXPORT PRICE INDICES FOR CERTAIN COUNTRIES.

1913 = 100.

	1926		1927		1928		Imp. as % of Exp.			Manufactured articles as % of total		
	Imp.	Exp.	Imp.	Exp.	Imp.	Exp.	1926	1927	1928	Imp.	Exp.	Inyear
Europe : Czechoslovakia Denmark Germany Irish Free State Norway United King- dom U.S.S.R Hungary Asia and Oceania : China Dutch E. Indies	144 160 126 96 187 142 163 145 151 165	139 156 133 101 175 173 147 116 154 137	142 147 125 92 151 135 143 133 165 165	144 136 134 95 144 163 140 128 168 130	141 147 127 90 147 137 141 137 169 155	144 139 134 95 140 163 131 127 168 127	104.2 102.6 94.7 95.0 106.9 82.1 110.9 125.0 98.1 120.4	98.4 108.1 93.3 96.8 104.9 82.8 102.1 103.9 98.2 123.1	97.7 105.8 94.8 94.7 105.0 84.0 107.6 107.6 107.9	27.4 39.9 17.2 44.8 17.7 33.6 54.6 43.1 64.9	65.8 11.7 72.4 23.3 76.6 1.0 17.2 17.4 1.7	1927 1926 1927 1926 1926 1926/7 1927 1927 1927
India	$\begin{array}{c c} 148\\ 146 \end{array}$	$\begin{array}{c} 132 \\ 145 \end{array}$	$\begin{array}{c} 136 \\ 140 \end{array}$	$\begin{array}{c} 130 \\ 146 \end{array}$	133 137	$\begin{array}{c c}127\\161\end{array}$	$112.1 \\ 100.7$	$104.6 \\ 95.9$	104.7 85.1	71.1	1.7	1926

are fairly homogeneous, either manufactured goods or raw materials and foodstuffs. In the second column, the import price index is expressed in each case as a percentage of the export index.¹ Whenever, therefore, the figures in this column exceed 100, import prices have risen more than export prices; whenever they are below 100, export prices have risen the more.

It will be observed that, in general, the export indices of industrialised States such as Germany, Switzerland and the United Kingdom are relatively high, while the export indices of agricultural States such as Denmark, the U.S.S.R., British India or the Dutch East Indies are relatively low. Reciprocally, the industrial States buy their imports of raw materials and foodstuffs cheap, while the producers of foodstuffs and raw materials buy their requirements of manufactured goods dear.

The movement in recent years has, however, been somewhat in favour of the agricultural States, more especially those exporting animal products — meat, hides and skins, wool, etc. The only countries in the above table exporting mainly agricultural products whose imports have become relatively more expensive in terms of these exports are Denmark and the Dutch East Indies, both of which were affected by the markets for one or two commodities. Denmark suffered from the serious fall in 1927 in the price of one of her two principal exports — bacon, and the Dutch East Indies from the decline in sugar and rubber.

Further light may be thrown on the problem under investigation by a comparison of rctail and wholesale price indices, as the former normally relate to the prices of consumers' goods and the latter to crude foodstuffs, raw materials and semi-manufactured goods. Such comparison must, however, be made with care. In the first place, the objects for which the two sets of indices are compiled are different. Retail price (cost-of-living) indices generally include rent and only such goods as are likely to be consumed by a typical working-class family. Comparison is made, therefore, between a selection of raw materials, foodstuffs, etc., which is intended to be characteristic of the general economy of the country and a special group of immediately consumable commodities (or services) of major concern to one section of the population. It is possible - indeed, in present conditions probable that these retail price indices tend to stand higher than would indices covering all classes of manufactured goods, for it is in the industries catering for secondary needs rather than in those supplying the prime necessities of life that the greatest technical progress has been made in recent years, and the products of these industries have probably fallen most in price. On the other hand the level of the cost-of-living indices is lowered in most countries by the inclusion of rent and by the fact that the base period for these indices is July 1914, when retail prices were generally higher than in 1913.

There is, however, a second reason why comparison between the two sets of indices requires caution. In the last two years, in contrast to the almost universal fall in wholesale prices, cost-of-living indices have either risen or

¹ Further discussion of certain special aspects of this subject will be found in the League of Nations Memoranda on International Trade and Balances of Payments.

remained stable in the majority of countries. This phenomenon cannot be ascribed to a relative increase in the prices of manufactured articles; indeed, as will be shown later, the evidence suggests that there has been a trend in the opposite direction.

These reservations do not rob the following table of value. Even allowing for a considerable margin of error, the fact of a general discrepancy between the indices remains :

TABLE XXXI.

AVERAGE WHOLESALE AND RETAIL PRICES IN 1928 AND 1929.

	Wholesale	Retail	Wholesale	Retail	Wholesale	Retail
	19	28	195	29	Base	period
South Africa	120	132	116	131	1913	1914
Australia	165	156	166	162	1913	XI, 1914
Austria	130	108	130	111	I-VI, 1914	VII, 1914
Rulgaria	115	105	120	109	1914	1914
Canada	151	152	149	153	1913	1913
Czechoslovakia	143	109	135	109	VII, 1914	VII, 1914
Egynt	120	152	115	151	I, 1913-VI, 1914	I, 1913–VI, 1914
Estonia	121	112	117	117	1913	1913
Finland	145	161	140	160	1913	I-VI, 1914
Gormany	140	152	137	154	1913	x,1913;1,1V,VII,1914
Hungary	135	118	121	117	1913	1913
British India	163	165	159	167	1913	VII, 1914
Itoly	134	145	131	149	1913	I-VI, 1914
Latvia	129	110	120	118	1913	VII, 1914
Now Zoaland	147	162	147	161	1913	VII, 1914
Norway	161	190	153	180	1913	VII, 1914
Polond	120	122	113	125	I, 1914	I, 1914
Switzerland	145	161	141	161	VI-VII, 1914	VI, 1914
United Kingdom	140	165	137	164	1913	VII, 1914
TIS A	140	162	138	161	1913	VII, 1914
USSR	173	205	180	220	1913	1913
0.0.0.10	110	100	100			

In fourteen out of the twenty-one countries given in the foregoing table, the retail price indices are distinctly higher than the wholesale; in Estonia, the two equated in 1929; in six countries, the wholesale price indices are higher. These countries are Australia, Latvia and a group of Central and South-East European countries — Austria, Czechoslovakia, Hungary and Bulgaria. The Austrian and Hungarian cost-of-living indices are affected by the inclusion of rent, as in both countries rents are still subject to special legislation. It is probable that, in all the five European countries, the level of wages has had an important influence on the ratio of retail to wholesale prices. The position in Australia must be ascribed in large measure to the effects of the tariff. The wholesale index covers a large selection of protected industrial raw and semi-manufactured products in addition to foodstuffs. The retail index is almost entirely composed of foodstuffs : the price of those crude food products of which Australia has a net export surplus are naturally determined by world conditions.

Up to this point, raw materials and foodstuffs have been in general considered as a single group of commodities and contrasted with finished articles. Such a grouping, however, may tend, and indeed in certain quarters has tended, to lead to exaggerated views concerning the extent to which the change in relative prices has adversely affected agricultural interests. It is necessary, therefore, to pursue the analysis a little further and to compare the prices of agricultural products with those of other raw materials and semi-manufactured products. Unfortunately, the goods entering into the existing index numbers of wholesale prices are grouped so variously that it is often difficult to employ them for this purpose. In the following statement, certain group indices which, though far from ideal, afford some evidence of value are tabulated. The groups are never identical in composition, and the figures for one country must not be compared with those for another.

* *

TABLE XXXII.

PRICE INDICES OF AGRICULTURAL AND OTHER PRODUCTS.

(Base 1913, unless otherwise indicated).

~	Come Index	Av	verage	for ye	ar	Compiler
Country	Group Index	1926	1927	1928	1929	Compact
Australia	Cereals and vegetables Meat Dairy produce Metals and coal	$182 \\ 154 \\ 169 \\ 185$	166 168 173 188	$157 \\ 161 \\ 166 \\ 183$		Melbourne, Common- wealth Bureau of Statistics. (Converted from base 1911.)
	Chemicals	175	188	193		~
AUSTRIA	Foodstuffs Raw materials and semi-manuf. prod	115 140	127 145	122 146	122 146	Federal Statistical Office. I–VI, 1914=100.
Belgium	Foodstuffs Fuels Metallurgical products Textiles	782 819 730 910	938 892 798 1,072	$879 \\ 825 \\ 791 \\ 1,124$	793 960 823 996	Ministère de l'Industrie, du Travail et de la Prévoyance sociale. IV, 1914 = 100.
Czechoslovakia	Foodstuffs	129	137	136	125	State Statistical Office. VII, 1914=100.
	manuf. ¹	$\begin{array}{c} 150\\ 161 \end{array}$	$\begin{array}{c} 150 \\ 156 \end{array}$	$\begin{array}{c}151\\150\end{array}$	$\begin{array}{c} 146 \\ 151 \end{array}$	
DENMARK	Raw foodstuffs	131	136	144	132	Central Statistical Department.
	prod	155	124	119	132	1
FINLAND	Foodstuffs (Imports)	$\substack{1,058\\974}$	$1,044 \\ 923$	$1,005 \\ 983$	928 910	Central Customs Administration.
FRANCE	Foodstuffs Raw materials and semi-manuf.	577	598	584	579	Statistique générale de la France.
	prod Minerals and metals Textiles	789 594 819	678 525 821	697 522 840	669 560 755	
Germany	Agricultural products Ind. raw materials and semi-manuf. Iron and steel Chemicals	$ \begin{array}{r} 129 \\ 130 \\ 124 \\ 123 \end{array} $	$ \begin{array}{r} 138 \\ 132 \\ 125 \\ 124 \end{array} $	134 134 128 126	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Central Statistical Office
Hungary	Agricultural products Ind. raw materials and semi-	114	126	131		Central Statistical Office 1909–1913=100.
	manuf. prod. ¹	131	136	139		
ITALY	Foodstuffs Ind. raw materials and semi-manf. Minerals and metals		568 510 503	$555 \\ 467 \\ 429$	$ \begin{array}{c c} 539 \\ 458 \\ 447 \end{array} $	Council, Milan.
NETHERLANDS	Food Total	$\begin{array}{c} 144 \\ 145 \end{array}$	$\begin{array}{c}153\\148\end{array}$	157 149	149 142	Central Statistical Office
Norway	Food Other goods Textiles Iron and metals	197 200 228 173	$ \begin{array}{r} 165 \\ 168 \\ 195 \\ 150 \end{array} $	$157 \\ 164 \\ 191 \\ 144$	$ 149 \\ 157 \\ 182 \\ 143 $	Central Statistical Office

¹ Including a few manufactured products.

TABLE XXXII (continued)

PRICE INDICES OF AGRICULTURAL AND OTHER PRODUCTS.

C	Come Inder	A	verage	for yea	er	Compiler		
Country	Group Index	1926	1927	1928	1929	Comptier		
Poland	Agricultural products Ind. raw materials and semi-	184	131	127	112	Central Statistical Office 1914=100.		
	manuf. prod. ¹	181	112	117	116			
Spain	Foodstuffs Ind. raw materials and semi-	183	182	176	180	Ministry of Labour.		
	manuf. prod	179	163	158	163			
	Building materials	207	207	207	203			
	Metals	181	154	148	163			
Switzerland	Foodstuffs	152	146	149	147	Federal Labour Office. VII, 1914=100.		
	prod	141	140	141	136			
	Fodder and fertilisers	128	129	135	130			
UNITED		_						
KINGDOM	Domestic agric. produce	147	140	143		Ministry of Agriculture. (Converted from base		
	Foodstuffs	155	152	152	145	1911-1913.)		
	Other than foodstuffs	144	136	134	132	Board of Trade.		
	Cereals and meat	152	148	153	143			
	Textiles	153	157	165	145	Economist.		
Throws Course	Minerals	150	125	115	120			
OF AMERICA.	Farm products	142	144	150	147	Department of Labour.		
	Non-agricultural products	154	146	149	145	1		
		1	1	1				

(Base 1913, unless otherwise indicated.)

¹ Including a few manufactured products.

Attention should be drawn to the fact that some countries group all agricultural products together, while the majority distinguish between foodstuffs on the one hand and raw materials on the other. The raw materials group in this latter case includes agricultural products not primarily intended for food. As textile price indices were, in most markets, relatively high even in 1929, this system tends to raise the raw materials indices and to depress the foodstuffs indices.

An examination of the table will show that in most countries the ratio between foodstuffs or agricultural products, as the case may be, on the one hand, and the prices of raw materials or raw materials of mineral origin on the other hand tended to move in favour of agriculture during the years 1926-1928. In general, indeed, the prices of mineral and metallurgical products ruled lower in 1928 than did those of agricultural products. This is not, however, true of Australia or of Austria, Hungary and Czechoslovakia. Reference has been made above to the situation in Australia. The position in Hungary is in some ways not dissimilar. The foodstuffs indices for Austria and Czechoslovakia would be raised if 1913 were taken as base instead of the first half of 1914 or July of that year, as foodstuffs rose in price in the latter period. Prices for products of the extractive industries, on the other hand, showed no corresponding general movement. In Austria, iron products were lower in the first two quarters of 1914 than in 1913 and coal prices remained practically stable.

It should be observed that the indices for foodstuffs or agricultural products have, in many cases, been influenced by the low prices recently ruling for the most important colonial products — coffee, tea and cocoa — and to that extent under-estimate the return to the farmer in temperate regions.

In 1929, there was a substantial drop in agricultural prices and a less marked fall in other prices. In this connection, it may be observed, in view of the length of time which has to elapse between the preparation for production and the sale of the article produced, falling prices affect the agriculturist particularly adversely.

* *

The foregoing tables, which are confined to three or four years only, however, do not bring out clearly the wider tendencies of recent years.

In the following table, the percentage differences between certain price indices of raw materials and finished articles and between certain import and export price indices have been traced back to 1921.

TABLE XXXIII.

PERCENTAGE DIFFERENCES BETWEEN THE AVERAGE ANNUAL PRICE INDICES OF RAW MATERIALS AND FINISHED PRODUCTS AND BETWEEN CERTAIN IMPORT AND EXPORT INDICES.

Vear	Sweden	U.S.A.		U.S.A. Germany		U.K.	British India	New Zealand	U.S.S.R
10001		Finished	products		Imports	Exports	Imports	Imports	Imports
			1923=100						
1921	+ 27	+ 22	•	•	+ 56	+ 42	+ 69	+ 31	•
1922	+ 33	+ 7	•		+ 48	+ 32	+ 21	+47	•
1923	+ 22	+ 7	•	•	+ 27	+ 28	+ 31	+ 8	•
1924	+ 17	+ 6	- 2	+ 30	+ 24	+ 22	+ 17	- 7	+ 30
1925	+ 8	+ 6	- 6	+ 18	+ 43	+ 19	+ 4	+ 13	+ 10
1926	+ 9	+ 11	- 1	+ 16	+ 25	+ 23	+ 12	+ 41	+ 11
1927	+ 8		_ 3	+ 12	+ 4	+ 21	+ 4	- 4	+ 2
1928	+ 3		- 3	+ 18	+ 8	+ 19	+ 5	-15	+ 8
1929	+ 4	•	- 2	+ 19	• • •	+ 19	•••		• ••

Raw materials or similar indices = 100.

In every case, the index which measures the price of crude products or the group of commodities, whether imports or export, which is known to consist mainly of crude products, is taken as equal to 100 and the percentage difference between it and the other index named at the top of each column is calculated. All figures preceded by a plus sign (+) indicate that the price index of the more finished goods stood higher than that for goods in earlier stages of manufacture. It will be seen that the discrepancy during the last three years has in almost every case been less than during the preceding three years. In other words, the advantage in price which the industrialist enjoyed has diminished. The import and export indices show a less well-defined movement than do the others, as is to be expected, since they are composed of less homogeneous groups of commodities.

The general tendency noticeable particularly in the period 1922 to 1926 for the two curves on which the figures are based to converge is, however, now no longer so clearly discernible. In Germany and the United States, for instance, there has been no decrease in the margin in the last three years. Such a situation might indeed be expected during a period of falling prices, for raw materials are normally affected more seriously than any others.

It should be remembered that 1913 was a year of rapidly rising prices : a convincing comparison of the price movements of raw products and manufactured articles can only be made when similar conditions again prevail. Were the downward price trend to cease and a contrary movement to begin, the markets for raw products would probably be affected first and the margin between the two series be narrowed.

In many countries, however, the margin during the last few years has been so small as to be scarcely significant. Attention was drawn above to the influence of the changes which have taken place in the quality and character of industrial products and it is by no means improbable that these changes have been sufficient they may have been more than sufficient — to account for the smaller discrepancies indicated in the table as existing to-day in certain countries. ANNEXES

.

Annex I.

METHOD OF CALCULATION OF THE COMPOSITE PRODUCTION INDEX.

The index is composed of 62 articles which are given in Annex II. For the purposes of the calculation of the index, a "weight" has been attributed to each commodity equivalent to its relative importance as measured by its aggregate value at selected "world" prices. The prices selected are intended to be representative in the sense that they refer to representative qualities and that their ratios are fairly typical of relative values on the world market. They are annual averages of actual quotations for medium qualities of the various articles in leading producing countries. They are not averages of prices of different qualities or of prices in different countries. They have all been converted into terms of dollars according to the annual average rates of exchange.

The indices are thus compiled by the aggregate method, the mathematical formula of which is :

$$\mathbf{I} = \frac{q_1' p' + q_1'' p'' + q_1''' p''' + \cdots + q_1 p_1}{q_0' p'' + q_0'' p'' + q_0'' p''' + \cdots + q_0 p_1} = \frac{\Sigma(q_1 p)}{\Sigma(q_0 p)}$$

The quantity of each commodity produced each year (q', q'', q'', q'', etc.) is multiplied by the price of that commodity (p', p'', p'', etc.) and the resulting totals for all commodities are summed up. The absolute figures thus obtained for each year are then converted into percentages of the absolute figure for the basic year. As the prices are constant, variations in the index represent changes in the quantities produced and not in the values.

In view of the changes that have taken place in relative values, three different calculations have been made, employing the prices for 1913, 1926, and 1928 respectively. In part A of Annex III the basic year is 1913, and the prices employed are those for the basic year and 1928, the last year considered; in part B the basic year is 1926, and the prices for that year and for 1928 have been used.

In Annex IV, showing the percentage distribution of aggregate production by continental groups, as well as in Annex V, showing changes in the relative importance of each group of commodities, the percentages are calculated from the aggregates obtained by employing prices for 1926 and 1928.

Two tables showing the aggregates from which the general index has been calculated are given below.

PRODUCTION AGGREGATES IN TERMS OF DOLLARS (000,000'S omitted)

	1928	$\begin{array}{c} 27,513.9\\ 6,795.8\\ 2,222.9\\ 1,877.3\\ 5,910.0\\ 580.8\\ 846.4\\ 5,705.7\\ 5,408.6\\ 836.7\\ 836.7\\ \end{array}$	58,018.2	
Prices	1927	$\begin{array}{c} 26,447.1{\rm S}\\ 6,421.2{\rm S}\\ 2,307.8{\rm S}\\ 5,520.6{\rm S}\\ 5,520.6{\rm S}\\ 566.1{\rm S}\\ 788.5{\rm S}\\ 5,752.0{\rm S}\\ 4,994.8{\rm S}\\ 727.9{\rm S}\\ 727.9$	55,871.5	
to 1928	1926	$\begin{array}{c} 25,982.8 \\ 6,257.4 \\ 1,977.7 \\ 1,977.7 \\ 5,819.6 \\ 5,819.6 \\ 3399.0 \\ 5399.0 \\ 5399.0 \\ 5399.0 \\ 699.1 \\ 693.1 \\ 693.1 \end{array}$	53,916.5	
scording	1925	$\begin{array}{c} 26,511.8\\ 6,148.3\\ 2,001.2\\ 1,799.9\\ 1,799.9\\ 2,541.1\\ 5,541.1\\ 244.2\\ 484.5\\ 654.2\\ 654.2\\ 654.2\\ 654.2\\ 654.2\\ 654.2\\ 659.6\\ 690.7\\ 690.7\\ \end{array}$	53,806.5	
egates ac	1924	$\begin{array}{c} 24,078.4\\ 6,119.5\\ 1,033.3\\ 1,033.3\\ 1,689.2\\ 4,907.8\\ 195.1\\ 135.1\\ 135.1\\ 35,143.3\\ 3,979.4\\ 603.4\\ 603.4\end{array}$	49,665.6	
(b) Aggr	1923	$\begin{array}{c} 24,769.9\\ 5,784.6\\ 1,911.6\\ 1,931.5\\ 4,306.1\\ 179.7\\ 179.7\\ 5,33.8\\ 5,176.3\\ 3,919.6\\ 553.4\end{array}$	49,044.3	
	1913	$\begin{array}{c} 24,095.9\\ 5,533.8\\ 1,483.0\\ 1,483.0\\ 4,563.0\\ 4,563.0\\ 54.8\\ 319.9\\ 319.9\\ 319.9\\ 319.9\\ 319.9\\ 319.9\\ 325.7\\ 3367.7\\ 33768.9\\ 525.0\\ \end{array}$	46,565.5	
	1928	$\begin{array}{c} 27, 795.2\\ 6, 858.4\\ 2, 416.6\\ 1, 835.3\\ 5, 419.7\\ 713.6\\ 713.6\\ 846.4\\ 9, 379.3\\ 5, 920.9\\ 882.6\end{array}$	62,776.9	-
rices	1927	$\begin{array}{c} 26,727.3\\ 6,381.0\\ 2,522.9\\ 1,960.3\\ 5,074.3\\ 668.9\\ 688.9\\ 690.6\\ 7788.5\\ 9,479.6\\ 5,474.2\\ 763.5\end{array}$	60, 531.1	
to 1926 I	1926	$\begin{array}{c} 26,036.7\\ 6,157.2\\ 2,144.2\\ 2,144.2\\ 5,364.6\\ 689.3\\ 654.5\\ 689.3\\ 654.5\\ 711.1\\ 8,656.3\\ 5,096.0\\ 728.8\end{array}$	57,925.8	
according	1925	$\begin{array}{c} 26,559.1\\ 6,060.1\\ 2,153.7\\ 1,736.0\\ 5,062.1\\ 5,062.1\\ 5,44.5\\ 591.7\\ 654.2\\ 8,644.2\\ 654.2\\ 8,643.9\\ 4,930.4\\ 1,726.1\\ 726.1\end{array}$	57,661.8	
ggregates	1924	$\begin{array}{c} 24,126.5\\ 6,074.7\\ 1,935.8\\ 1,624.9\\ 4,489.3\\ 435.3\\ 532.2\\ 532.2\\ 581.0\\ 8,511.6\\ 8,511.6\\ 637.2\\ 637.2\\ \end{array}$	53,306.8	
(a) A§	1923	$\begin{array}{c} 24,724.0\\ 5,747.4\\ 1,918.3\\ 1,918.3\\ 3,954.7\\ 3,954.7\\ 507.7\\ 507.7\\ 533.8\\ 8,569.5\\ 4,291.2\\ 580.7\end{array}$	52, 671.4	
	1913	$\begin{array}{c} 23,994.5\\ 1,600.6\\ 1,600.6\\ 1,600.6\\ 1,258.8\\ 4,132.0\\ 1122.2\\ 392.4\\ 392.4\\ 392.4\\ 7,406.0\\ 4,132.6\\ 551.6\end{array}$	49,571.9	
Groups of Commodities		Cereals and other food crops Meat	Total	

	1928	$\begin{array}{c} 8,259.5\\ 13,247.8\\ 7,886.2\\ 16,145.7\end{array}$	$\begin{array}{c} 21,134.0\\ 16,896.0\\ 1,239.1\\ 3,748.9\\ 1,779.5\\ 1,779.5\\ 12,010.9\\ 1,209.8 \end{array}$	58,018.2
Prices	1927	$\begin{array}{c} 7,644.8\\ 12,570.3\\ 7,954.2\\ 15,599.0 \end{array}$	$\begin{array}{c} 20,524.5\\ 15,982.5\\ 1,153.1\\ 3,590.8\\ 1,695.4\\ 11,759.8\\ 1,165.4 \end{array}$	55,871.5
lg to 1928	1926	$\begin{array}{c} 7,052.3\\ 12,171.6\\ 6,856.8\\ 13,909.1 \end{array}$	$\begin{array}{c} 19,028.4\\ 16,258.0\\ 1,198.7\\ 3,196.2\\ 1,640.9\\ 11,437.8\\ 1,156.5\\ \end{array}$	53,916.5
s accordin	1925	$\begin{array}{c} 7,340.6\\ 12,020.7\\ 7,485.8\\ 14,826.4\end{array}$	$\begin{array}{c} 19,506.5\\ 15,761.1\\ 1,236.9\\ 3,154.2\\ 1,654.9\\ 11,450.0\\ 11,042.9\end{array}$	53,806.5
Aggregate	1924	$\begin{array}{c} 6,350.4\\ 9,900.1\\ 7,099.5\\ 13,449.9\end{array}$	$\begin{array}{c} 16,999.6\\ 14,667.9\\ 1,303.7\\ 2,916.8\\ 1,547.7\\ 11,163.5\\ 1,066.4 \end{array}$	49,665.6
(q)	1923	$\begin{array}{c} 5,972.2\\ 9,278.9\\ 6,803.3\\ 12,775.5 \end{array}$	$\begin{array}{c} 16,082.2\\ 15,717.4\\ 1,178.1\\ 3,141.3\\ 1,441.8\\ 1,441.8\\ 10,486.3\\ 10,486.3\end{array}$	49,044.3
	1913	$\begin{array}{c} 7,636.2\\ 12,205.0\\ 6,922.1\\ 14,558.3\end{array}$	$\begin{array}{c} 19,127.1\\ 12,518.0\\ 784.9\\ 2,400.9\\ 1,170.0\\ 9,657.9\\ 906.7\end{array}$	46,565.5
	1928	$\begin{array}{c} 9,456.8\\ 14,651.1\\ 9,087.6\\ 18,544.4\end{array}$	23, 738.7 18, 482.4 1, 288.3 3, 813.6 1, 669.5 12, 565.2 12, 565.2 1, 219.2	62,776.9
Priees	1927	$\begin{array}{c} 8,766.1\\ 13,898.1\\ 9,140.9\\ 17,907.0 \end{array}$	23,039.0 17,607.2 1,204.5 3,601.4 1,612.5 12,299.3 1,167.2	60,531.1
g to 1926	1926	$\begin{array}{c} 7,906.3\\ 13,231.8\\ 7,715.0\\ 15,621.3 \end{array}$	$\begin{array}{c} 20,946.8\\ 17,845.5\\ 1,261.8\\ 3,145.8\\ 1,559.2\\ 11,999.4\\ 11,167.3\\ \end{array}$	57,925.8
s aecording	1925	$\begin{array}{c} 8,269.4\\ 13,082.2\\ 8,645.3\\ 16,914.7\end{array}$	$\begin{array}{c} 21,727.5\\ 17,065.5\\ 1,319.6\\ 3,071.3\\ 1,564.2\\ 11,867.7\\ 11,867.7\\ \end{array}$	57,661.8
Aggregates	1924	$\begin{array}{c} 7,211.3\\10,771.0\\8,262.4\\15,473.7\end{array}$	$\begin{array}{c} 19,033.4\\ 16,149.5\\ 1,389.4\\ 2,858.0\\ 1,462.1\\ 11,333.2\\ 1,081.2\\ 1,081.2\\ \end{array}$	53,306.8
r (v)	1923	$\begin{array}{c} 6,628.4\\ 10,027.5\\ 7,903.4\\ 14,531.8 \end{array}$	$\begin{array}{c} 17,930.9\\17,326.1\\1,273.4\\3,069.8\\1,372.2\\1,372.2\\10,698.2\\1,000.8\end{array}$	52,671.4
	1913	$\begin{array}{c} 8,547.6\\ 13,124.2\\ 8,099.2\\ 16,646.8\end{array}$	$\begin{array}{c} 21,223.4\\ 13,470.6\\ 784.7\\ 2,384.8\\ 1,115.0\\ 9,692.0\\ 901.4\end{array}$	49,571.9
Territorial Divisions		Eastern and Central Europe : Excluding U.S.S.R Including U.S.S.R Rest of Europe	Europe, including U.S.S.R. North America Caribbean South America Africa Asia	World

Annex II.

INDICES OF WORLD PRODUCTION OF FOODSTUFFS AND RAW MATERIALS.

Groups of Products		В	ase 191	.3 = 10	00		Base 1926 = 100					
and Articles	1923	1924	1925	1926	1927	1928	1923	1924	1925	1926	1927	1928
Cereals and other food crops Wheat Rye Barley Oats Maize Rice Potatoes Sugar { Beet sugar Cane sugar	101 96 87 97 109 103 106 76 154	92 83 79 95 92 111 113 104 168	106 108 91 102 112 111 117 106 177	114 99 88 [.] 103 106 110 107 99 169	112 104 89 98 104 110 123 114 175	120 97 103 111 102 113 123 120 190	89 97 99 94 103 94 98 77 91	81 84 90 92 87 101 105 105 105	93 109 104 98 105 101 109 108 105	100 100 100 100 100 100 100 100 100	98 106 101 95 98 100 115 115 103	$105 \\ 98 \\ 117 \\ 108 \\ 96 \\ 103 \\ 114 \\ 122 \\ 112$
Meat Beef and veal Pork, bacon etc Mutton	107 107 87	$114\\113\\87$	$ \begin{array}{r} 116 \\ 110 \\ 90 \end{array} $	118 111 95	118 118 - 98	$120 \\ 133 \\ 101$	90 96 92	96 102 92	98 99 95	100 100 100	100 107 104	101 120 107
Colonial produce, etc. Coffec Cocoa. Tca Hops	$129 \\ 205 \\ 105 \\ 47 \\ 140$	$116 \\ 222 \\ 110 \\ 85 \\ 144$	118 219 110 72 148	$120 \\ 207 \\ 116 \\ 72 \\ 150$	197 208 119 80 147	$ \begin{array}{r} 137 \\ 221 \\ 122 \\ 80 \\ 147 \end{array} $	$108 \\ 99 \\ 91 \\ 65 \\ 94$	$97 \\ 107 \\ 94 \\ 119 \\ 96$	98 106 94 100 99	$ \begin{array}{r} 100 \\ 100 \\ 100 \\ 100 \\ 100 \end{array} $	164 101 102 112 98	115 107 105 111 98
Vegetable-oil materials Cotton-seed Linseed Rape-seed Hemp-seed Sesamum Soya beans Copra Palm oil and palm-kernel oil (raw) Olive oil (raw) Ground-nuts	89 113 96 88 94 208 171 142 116 129	$ \begin{array}{r} 112 \\ 119 \\ 90 \\ 84 \\ 97 \\ 251 \\ 180 \\ 160 \\ 132 \\ 155 \\ \end{array} $	126 142 97 135 78 212 184 170 112 198	125 128 78 131 81 254 205 161 97 204	110 139 79 141 99 285 199 163 182 249	$ \begin{array}{r} 115 \\ 137 \\ 71 \\ 139 \\ 84 \\ 294 \\ 235 \\ 160 \\ 110 \\ 270 \\ \end{array} $	$71\\88\\123\\67\\116\\82\\83\\88\\120\\63$	89 93 114 64 119 99 87 99 137 76	100 111 123 103 96 -83 90 105 116 97	$ \begin{array}{r} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100 \end{array} $	88 108 101 108 121 112 97 101 187 122	$\begin{array}{c} 92\\ 107\\ 91\\ 106\\ 103\\ 116\\ 115\\ 100\\ 113\\ 133\\ \cdot \end{array}$
Tertiles Cotton Flax Hemp Manila hemp Jute Wool Raw silk Artificial silk	88 53 92 122 100 92 138 305	$ \begin{array}{r} 111 \\ 70 \\ 85 \\ 128 \\ 96 \\ 91 \\ 150 \\ 404 \end{array} $	$126 \\ 82 \\ 107 \\ 117 \\ 105 \\ 100 \\ 164 \\ 537$	$127 \\ 73 \\ 98 \\ 118 \\ 143 \\ 107 \\ 174 \\ 632$	$ \begin{array}{r} 109 \\ 68 \\ 82 \\ 112 \\ 120 \\ 111 \\ 184 \\ 833 \\ \end{array} $	$ \begin{array}{r} 117 \\ 75 \\ 96 \\ 116 \\ 117 \\ 114 \\ 198 \\ 1,036 \\ \end{array} $	$70 \\ 72 \\ 94 \\ 103 \\ 70 \\ 86 \\ 79 \\ 48$		$99\\111\\109\\99\\74\\94\\94\\85$	$ \begin{array}{r} 100 \\ 1$	$86 \\ 92 \\ 84 \\ 95 \\ 84 \\ 103 \\ 106 \\ 132$	$93 \\ 102 \\ 98 \\ 98 \\ 82 \\ 106 \\ 114 \\ 164$

Annex II (concluded).

INDICES OF WORLD PRODUCTION OF FOODSTUFFS AND RAW MATERIALS.

Groups of Products		В	ase 191	3 = 10	0			Ba	ase 192	6 = 10	0	
and Articles	1923	1924	1925	1926	1927	1928	1923	1924	1925	1926	1927	1928
Raw Rubber	426	433	518	579	632	602	74	75	90	100	109	104
Wood-pulp Mechanical pulp Chemical pulp	$\begin{array}{c} 118\\ 135 \end{array}$	$\begin{array}{c} 127\\ 140 \end{array}$	$\begin{array}{c} 138\\ 157\end{array}$	150 175	155 186	$\begin{array}{c} 158\\ 191 \end{array}$	79 77	85 80	92 90	100 100	$\begin{array}{c} 104 \\ 106 \end{array}$	$\begin{array}{c} 106 \\ 109 \end{array}$
Cement	111	121	135	145	160	166	76	84	93	100	110	115
Fuels Coal Lignite Petroleum Metals (smelter production). Pig-iron Steel Copper Lead Zinc Tin Aluminium Niekel	99 125 263 103 122 102 97 106 227 101 108	98 133 262 86 102 130 114 104 112 264 114 105	98 144 276 97 118 138 128 117 112 284 121 112	98 144 283 100 122 144 135 127 113 310 109 116	$105 \\ 155 \\ 326 \\ 110 \\ 133 \\ 151 \\ 143 \\ 135 \\ 122 \\ 324 \\ 111 \\ 112 $	102 168 341 112 144 170 144 144 139 349 158 114	102 87 93 89 84 85 75 77 93 73 73 92 94	100 92 93 84 90 84 82 99 85 104 91	101 100 98 97 96 95 92 99 91 110 97	100 100 100 100 100 100 100 100 100 100	108 108 115 110 109 105 106 107 105 101 97	$105 \\ 117 \\ 121 \\ 112 \\ 118 \\ 118 \\ 106 \\ 114 \\ 123 \\ 113 \\ 145 \\ 98 \\ 98 \\ 100 \\ $
Chemicals (fertilisers) Natural phosphates Potash Sulphur Natural guano Nitrate of soda Nitrate of lime Superphosphates of lime Basic slag Cyanamide of calcium . Sulphate of ammonia . Sulphate of copper	$\begin{array}{c} 98\\ 101\\ 250\\ 242\\ 70\\ 223\\ 87\\ 63\\ 284\\ 174\\ 104 \end{array}$	$114 \\ 90 \\ 172 \\ 288 \\ 88 \\ 196 \\ 92 \\ 96 \\ 336 \\ 199 \\ 106$	122 129 188 283 92 260 108 103 452 225 99	$134 \\ 114 \\ 240 \\ 203 \\ 74 \\ 521 \\ 108 \\ 109 \\ 534 \\ 228 \\ 107 \\$	139 130 268 244 59 674 108 124 538 260 119	$139 \\ 147 \\ 255 \\ 274 \\ 115 \\ 818 \\ 120 \\ 126 \\ 575 \\ 281 \\ 122$	$73 \\ 89 \\ 104 \\ 119 \\ 94 \\ 43 \\ 80 \\ 58 \\ 53 \\ 76 \\ 97 \\$	85 79 72 142 119 38 85 88 63 87 99	91 113 78 140 125 50 99 94 85 99 93	$ \begin{array}{r} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100 \end{array} $	$ \begin{array}{c} 103\\114\\112\\120\\80\\129\\99\\114\\101\\114\\111\end{array} $	$104 \\ 129 \\ 106 \\ 135 \\ 156 \\ 157 \\ 111 \\ 115 \\ 108 \\ 124 \\ 113$

N.B. This Annex is based on figures which are sometimes more recent than those which were available at the time when the other Annexes were compiled.

Annex III.

Production in

		Easte	rn and C	Central E	urope	Rest of	Europe		Eur	ope	
Groups of Products	Years	Exclu U.S.S	iding S.R.	Inclu U.S.	ding S.R.	(Wester Mari	rn and time)	Exclu U.S.	iding S.R.	Inclu U.S.S	ding S.R.
		(a)	(b)	(<i>a</i>)	(<i>b</i>)	(a)	(<i>b</i>)	(<i>a</i>)	(b)	(<i>a</i>)	(b)
Cereals	1923 1924 1925 1926 1927	$82 \\ 71 \\ 90 \\ 86 \\ 83$	82 71 90 86 83	77 72 96 99 93	78 72 96 99 93	$ \begin{array}{r} 100 \\ 92 \\ 109 \\ 98 \\ 98 \\ 98 \end{array} $	$ \begin{array}{r} 100 \\ 92 \\ 108 \\ 98 \\ 97 \end{array} $	89 80 98 91 89	89 79 97 91 89	$83 \\ 77 \\ 100 \\ 99 \\ 94$	84 77 99 99 99
Cereals and other food crops	1928 1923 1924 1925 1926 1927 1928	94 85 83 97 87 93 100	93 84 80 95 86 91 99	$98\\84\\84\\104\\102\\102\\106$	98 83 81 102 101 100 104	$98 \\ 97 \\ 98 \\ 110 \\ 100 \\ 105 \\ 104$	$98 \\98 \\97 \\109 \\100 \\103 \\103$	95 90 89 102 92 98 102	95 89 87 101 91 96 100	98 87 88 105 101 103 106	98 87 85 104 100 101 104
Meat	$ 1923 \\ 1924 \\ 1925 \\ 1926 \\ 1927 \\ 1028 $	$69\\84\\95\\99\\105\\122$	$71 \\ 86 \\ 97 \\ 100 \\ 105 \\ 120$	$70 \\ 87 \\ 96 \\ 99 \\ 106 \\ 124$	$72 \\ 89 \\ 97 \\ 101 \\ 106 \\ 122$	$ \begin{array}{r} 100 \\ 103 \\ 106 \\ 106 \\ 110 \\ 114 \end{array} $	$ \begin{array}{r} 100 \\ 102 \\ 104 \\ 105 \\ 108 \\ 113 \end{array} $	$85 \\ 94 \\ 101 \\ 103 \\ 107 \\ 122 $	$ 86 \\ 94 \\ 101 \\ 103 \\ 107 \\ 121 $	$82 \\ 94 \\ 100 \\ 102 \\ 107 \\ 120$	83 94 100 102 107
Colonial produce, Tobacco, Hops	1923 1924 1925 1926 1927 1928	$95 \\ 123 \\ 103 \\ 103 \\ 116 \\ 107$	$ 101 \\ 128 \\ 108 \\ 107 \\ 119 \\ 108 $	$92 \\ 111 \\ 128 \\ 131 \\ 131 \\ 114$	$95 \\ 114 \\ 133 \\ 135 \\ 133 \\ 115$	93 150 139 129 115 114	$98 \\ 154 \\ 145 \\ 134 \\ 121 \\ 121$	$94 \\ 133 \\ 116 \\ 112 \\ 116 \\ 109$	$ \begin{array}{r} 100 \\ 137 \\ 120 \\ 116 \\ 119 \\ 112 \end{array} $	$92 \\ 121 \\ 131 \\ 130 \\ 127 \\ 114$	96 124 136 135 130 116
Vegetable-oil materials	1923 1924 1925 1926 1927 1928	$89\\124\\96\\92\\94\\118$	$78\\114\\86\\83\\86\\109$	$82 \\ 105 \\ 112 \\ 107 \\ 111 \\ 123$	$77\\101\\106\\101\\105\\117$	$ \begin{array}{r} 122 \\ 135 \\ 117 \\ 98 \\ 205 \\ 100 \end{array} $	$126 \\ 139 \\ 120 \\ 100 \\ 211 \\ 103$	$114\\132\\112\\96\\179\\104$	$114 \\ 133 \\ 112 \\ 96 \\ 181 \\ 104$	$ \begin{array}{r} 107 \\ 123 \\ 115 \\ 101 \\ 169 \\ 109 \\ 109 \end{array} $	$108 \\ 125 \\ 115 \\ 101 \\ 172 \\ 108$
Textiles	1923 1924 1925 1926 1927 1928	$106 \\ 125 \\ 136 \\ 137 \\ 145 \\ 161$	$100 \\ 112 \\ 119 \\ 115 \\ 119 \\ 125$	$74 \\ 84 \\ 100 \\ 99 \\ 99 \\ 99 \\ 114$	67 78 92 89 88 98	$ \begin{array}{c} 119\\ 141\\ 169\\ 190\\ 229\\ 260\\ \end{array} $	$108 \\ 121 \\ 140 \\ 153 \\ 176 \\ 194$	$114\\135\\156\\169\\197\\222$	$104 \\ 117 \\ 131 \\ 137 \\ 152 \\ 165$	$90 \\ 104 \\ 125 \\ 131 \\ 145 \\ 165$	79 91 107 108 115 128
Rubber	1923 1924 1925 1926 1927 1928										

A. INDICES OF PRODUCTION OF FOODSTUFFS AND

Annex III.

RAW MATERIALS WEIGHTED BY: (a) 1913 VALUES; (b) 1928 VALUES.

1913 = 100.

Nor Ame	rth rica	Caribb	ean	Sout Amer	h ica	Afri	ca	Asi	a	Ocea	nia	Wor	ld
(a)	(b)	(a) 1	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)]	(b)	(a)	(b)
$123 \\ 104 \\ 115 \\ 112 \\ 118 \\ 126$	$123 \\ 105 \\ 115 \\ 112 \\ 118 \\ 126$	84 85 65 73 72 71	$83 \\ 85 \\ 65 \\ 73 \\ 72 \\ 71$	$ \begin{array}{r} 145 \\ 113 \\ 138 \\ 138 \\ 141 \\ 144 \end{array} $	$145 \\ 113 \\ 138 \\ 138 \\ 140 \\ 143$	$ \begin{array}{c} 113 \\ 113 \\ 118 \\ 115 \\ 121 \\ 128 \end{array} $	$112 \\ 113 \\ 118 \\ 114 \\ 120 \\ 128$	91 88 86 85 89 81	91 87 85 85 88 81	$123 \\ 162 \\ 113 \\ 155 \\ 122 \\ 156$	$ \begin{array}{r} 121 \\ 160 \\ 112 \\ 153 \\ 120 \\ 154 \end{array} $	$ \begin{array}{r} 101 \\ 90 \\ 105 \\ 105 \\ 104 \\ 109 \end{array} $	$101 \\ 90 \\ 105 \\ 104 \\ 104 \\ 109$
$123 \\ 107 \\ 114 \\ 112 \\ 118 \\ 127$	$123 \\ 106 \\ 114 \\ 112 \\ 118 \\ 127$	$147 \\182 \\171 \\163 \\156 \\177$	$142 \\ 175 \\ 162 \\ 156 \\ 149 \\ 168$	$156 \\ 129 \\ 151 \\ 152 \\ 153 \\ 155$	$155 \\ 127 \\ 149 \\ 150 \\ 152 \\ 153$	$119\\124\\127\\121\\137\\134$	$118 \\ 123 \\ 126 \\ 119 \\ 135 \\ 133$	$ 103 \\ 107 \\ 108 \\ 107 \\ 108 \\ 110 $	$ \begin{array}{r} 102 \\ 107 \\ 107 \\ 106 \\ 107 \\ 109 \end{array} $	$ \begin{array}{r} 121 \\ 155 \\ 132 \\ 153 \\ 142 \\ 163 \end{array} $	$120 \\ 155 \\ 128 \\ 151 \\ 138 \\ 160$	$ \begin{array}{r} 103 \\ 102 \\ 111 \\ 109 \\ 111 \\ 116 \end{array} $	$ 103 \\ 100 \\ 110 \\ 108 \\ 110 \\ 114 $
$135 \\ 136 \\ 126 \\ 127 \\ 127 \\ 127 \\ 128$	$ \begin{array}{r} 133 \\ 133 \\ 126 \\ 127 \\ 126 \\ 126 \\ 126 \\ \end{array} $	$ 109 \\ 107 \\ 107 \\ 111 \\ 114 \\ 119 $	$ \begin{array}{r} 110 \\ 108 \\ 109 \\ 113 \\ 117 \\ 120 \end{array} $	$ \begin{array}{r} 105 \\ 108 \\ 108 \\ 111 \\ 112 \\ 123 \end{array} $	$ 108 \\ 112 \\ 111 \\ 114 \\ 115 \\ 126 $	$110 \\ 114 \\ 117 \\ 123 \\ 132 \\ 134$	$111 \\ 115 \\ 117 \\ 124 \\ 132 \\ 135$	$123 \\ 129 \\ 132 \\ 130 \\ 137 \\ 138$	$ \begin{array}{r} 119 \\ 125 \\ 127 \\ 126 \\ 131 \\ 133 \\ \end{array} $	$ 105 \\ 108 \\ 105 \\ 104 \\ 112 \\ 117 $	$104 \\ 105 \\ 101 \\ 101 \\ 109 \\ 114$	$ \begin{array}{r} 105 \\ 111 \\ 111 \\ 113 \\ 117 \\ 124 \end{array} $	$105 \\ 111 \\ 111 \\ 113 \\ 116 \\ 123$
$138 \\ 117 \\ 129 \\ 123 \\ 117 \\ 131$	$ \begin{array}{c} 142\\ 119\\ 131\\ 125\\ 118\\ 133\\ \end{array} $	$113 \\ 109 \\ 114 \\ 107 \\ 130 \\ 128$	$ \begin{array}{r} 111 \\ 108 \\ 114 \\ 106 \\ 130 \\ 129 \end{array} $	$ \begin{array}{r} 139 \\ 126 \\ 120 \\ 123 \\ 200 \\ 175 \end{array} $	$138 \\ 125 \\ 119 \\ 123 \\ 203 \\ 177$	$291 \\ 335 \\ 353 \\ 364 \\ 364 \\ 376$	$\begin{array}{c} 279 \\ 320 \\ 341 \\ 356 \\ 358 \\ 365 \end{array}$	$121 \\ 133 \\ 138 \\ 133 \\ 137 $	$120 \\ 130 \\ 135 \\ 132 \\ 135 \\ 135 \\ 136$	$135 \\ 140 \\ 130 \\ 125 \\ 175 \\ 135$	$136 \\ 124 \\ 120 \\ 120 \\ 168 \\ 140$	$ \begin{array}{r} 130 \\ 133 \\ 137 \\ 135 \\ 157 \\ 151 \end{array} $	$129\\130\\135\\133\\156\\150$
$82\\115\\118\\125\\105\\106$	$ \begin{array}{c} 82\\ 115\\ 119\\ 126\\ 106\\ 108 \end{array} $	$138 \\ 144 \\ 138 \\ 206 \\ 141 \\ 168$	$114 \\ 121 \\ 119 \\ 177 \\ 118 \\ 142$	$187 \\ 154 \\ 238 \\ 220 \\ 250 \\ 257 \\$	$186 \\ 155 \\ 238 \\ 219 \\ 248 \\ 255$	$ 130 \\ 138 \\ 163 \\ 160 \\ 155 \\ 166 $	$ 129 \\ 135 \\ 161 \\ 159 \\ 154 \\ 167 $	$ \begin{array}{r} 118 \\ 130 \\ 136 \\ 133 \\ 152 \\ 156 \end{array} $	$111 \\ 123 \\ 131 \\ 127 \\ 147 \\ 151$	193 199 211 229 250 234	$ 197 \\ 201 \\ 214 \\ 229 \\ 252 \\ 236 $	$114 \\ 129 \\ 137 \\ 133 \\ 153 \\ 143$	$111 \\ 125 \\ 133 \\ 129 \\ 152 \\ 139$
84 110 130 147 113 129	$ \begin{array}{r} 83\\107\\127\\142\\109\\123\end{array} $	86 99 101 166 89 127	$84 \\ 97 \\ 97 \\ 159 \\ 87 \\ 123$	$ \begin{array}{r} 118 \\ 116 \\ 123 \\ 120 \\ 123 \\ 128 \\ \end{array} $	$ 112 \\ 111 \\ 116 \\ 115 \\ 117 \\ 123 $	$106 \\ 121 \\ 138 \\ 136 \\ 118 \\ 145$	$ \begin{array}{r} 107 \\ 121 \\ 138 \\ 137 \\ 121 \\ 147 \end{array} $	$108 \\ 118 \\ 128 \\ 129 \\ 137 \\ 136$	$108 \\ 120 \\ 129 \\ 128 \\ 137 \\ 137 \\ 137 \\$	$ \begin{array}{r} 107 \\ 99 \\ 110 \\ 125 \\ 129 \\ 126 \end{array} $	$107 \\ 99 \\ 110 \\ 124 \\ 129 \\ 126$	$97 \\ 112 \\ 127 \\ 135 \\ 128 \\ 138$	94 108 121 128 121 130
				$56 \\ 58 \\ 71 \\ 67 \\ 78 \\ 58 \\ 58 \\$	$56 \\ 58 \\ 71 \\ 67 \\ 78 \\ 58$	$22 \\ 22 \\ 33 \\ 44 \\ 44 \\ 33$	$22 \\ 22 \\ 33 \\ 44 \\ 44 \\ 33$	896 910 1084 1220 1327 1282	896 910 1084 1220 1327 1282			$\begin{array}{c} 426 \\ 433 \\ 518 \\ 579 \\ 632 \\ 602 \end{array}$	$\begin{array}{r} 426 \\ 433 \\ 518 \\ 579 \\ 632 \\ 602 \end{array}$

A. INDICES OF PRODUCTION OF FOODSTUFFS AND Production in

		Easter	n and	Central I	Europe	D	4		Eu	rope	
Groups of Products	Years	Exclu U.S.	uding S.R.	Inclu U.S	ıding .S.R.	Eur	ope	Exelu U.S.	uding S.R.	Inclu U.S.	ıding .S.R.
		(a)	(b)	(<i>a</i>)	(b)	(a)	(b)	(a)	(b)	(a)	(b)
Wood-Pulp	1923 1924 1925 1926 1927 1928	$80 \\ 90 \\ 112 \\ 121 \\ 132 \\ 140$	81 90 112 121 132 141	$74\\84\\103\\114\\125\\133$	$74\\84\\103\\114\\125\\133$	$ \begin{array}{r} 118 \\ 133 \\ 145 \\ 154 \\ 169 \\ 161 \end{array} $	$ \begin{array}{r} 118 \\ 133 \\ 146 \\ 155 \\ 169 \\ 162 \end{array} $	$101 \\ 114 \\ 131 \\ 140 \\ 152 \\ 152 \\ 152$	$102 \\ 115 \\ 131 \\ 140 \\ 153 $	$97 \\ 110 \\ 126 \\ 136 \\ 148 \\ 148 \\ 148$	98 110 126 136 149 149
Cement	1923 1924 1925 1926 1927 1928	$50 \\ 55 \\ 71 \\ 74 \\ 91 \\ 98$	$50 \\ 55 \\ 71 \\ 74 \\ 91 \\ 98$	$ \begin{array}{r} 44 \\ 50 \\ 66 \\ 74 \\ 90 \\ 98 \\ 98 \end{array} $	$ \begin{array}{r} 44 \\ 50 \\ 66 \\ 74 \\ 90 \\ 98 \\ 98 \\ \end{array} $	124 137 147 161 181 190	124 137 147 161 181 190	$84 \\ 93 \\ 106 \\ 115 \\ 133 \\ 141$	$84 \\ 93 \\ 106 \\ 115 \\ 133 \\ 141$	78 87 100 111 129 138	78 87 100 111 129 138
Fuels	1923 1924 1925 1926 1927 1928	$\begin{array}{c} 65\\ 90\\ 95\\ 105\\ 112\\ 114 \end{array}$	$\begin{array}{c} 65\\ 91\\ 96\\ 106\\ 112\\ 115 \end{array}$	62 85 91 104 113 117	63 85 91 104 113 117	96 97 91 62 97 93	96 97 91 62 97 93	84 94 93 79 102 101	84 94 93 79 103 101	81 92 91 80 103 103	$82 \\ 92 \\ 91 \\ 80 \\ 104 \\ 104$
Metals	1923 1924 1925 1926 1927 1928	$55 \\ 72 \\ 88 \\ 90 \\ 116 \\ 113$	$55 \\ 72 \\ 88 \\ 89 \\ 116 \\ 112$	$47 \\ 63 \\ 79 \\ 85 \\ 110 \\ 109$	$47 \\ 62 \\ 79 \\ 85 \\ 109 \\ 109$	$ \begin{array}{r} 86 \\ 101 \\ 104 \\ 99 \\ 119 \\ 127 \end{array} $	86 101 104 98 119 127	$74\\89\\97\\95\\118\\121$	73 89 97 95 118 121	$\begin{array}{c} 68\\ 83\\ 92\\ 92\\ 115\\ 119\end{array}$	$ \begin{array}{r} 68\\ 83\\ 92\\ 92\\ 114\\ 118\\ \end{array} $
Chemicals (fertilisers)	1923 1924 1925 1926 1927 1928	97 118 151 156 180 183	$94 \\ 109 \\ 142 \\ 143 \\ 166 \\ 170$	$96 \\ 116 \\ 149 \\ 154 \\ 178 \\ 181$	$92 \\ 108 \\ 140 \\ 142 \\ 165 \\ 169$	$110 \\ 121 \\ 129 \\ 133 \\ 140 \\ 149$	$111 \\ 122 \\ 130 \\ 135 \\ 143 \\ 151$	$104 \\ 120 \\ 138 \\ 142 \\ 157 \\ 163$	$103 \\ 116 \\ 135 \\ 138 \\ 153 \\ 159$	$104 \\ 119 \\ 137 \\ 142 \\ 156 \\ 162$	$103 \\ 116 \\ 135 \\ 138 \\ 153 \\ 159$
General Index	1923 1924 1925 1926 1927 1928	$78 \\ 85 \\ 97 \\ 94 \\ 103 \\ 111$	$78\\83\\96\\92\\100\\108$	$76\\83\\100\\101\\106\\112$	76 81 98 100 103 109	98 103 109 100 116 116	$98\\103\\108\\99\\115\\114$	$88 \\ 94 \\ 103 \\ 96 \\ 109 \\ 114$	88 92 102 96 107 111	85 91 103 100 110 113	84 89 102 99 107 110
Foodstuffs	1923 1924 1925 1926 1927 1928	82 83 97 89 95 106	82 81 96 89 93 104	81 84 102 101 103 109	81 82 101 101 101 107	98 99 109 101 106 107	98 98 108 101 104 106	88 90 102 94 100 106	89 88 101 94 98 105	86 89 104 101 104 109	86 87 103 101 102 107
Raw Materials	1923 1924 1925 1926 1927 1928	68 88 99 105 121 123	68 88 97 102 117 119	62 80 93 100 114 118	$ \begin{array}{c} 62 \\ 78 \\ 91 \\ 97 \\ 109 \\ 113 \end{array} $	$98 \\ 108 \\ 109 \\ 98 \\ 128 \\ 126$	$98 \\108 \\108 \\97 \\127 \\124$	$ \begin{array}{r} 86 \\ 100 \\ 105 \\ 100 \\ 125 \\ 125 \end{array} $	86 100 104 99 123 122	$81 \\ 94 \\ 102 \\ 99 \\ 121 \\ 122$	80 93 100 97 118 119

RAW MATERIALS WEIGHTED BY: (a) 1913 VALUES; (b) 1928 VALUES. 1913 = 100.

	No Ame	rth erica	Carib	bean	Sou Ame	ith rica	Afr	ica	Asi	a	Ocea	nia	Woi	ld
_	(<i>a</i>)	(b)	(a)	(8)	(a)	(b)	(<i>a</i>)	(b)	(<i>a</i>)	(b)	(a)	(<i>b</i>)
-	171 167 180 203 206 217	172 167 181 205 207 219	$9 \\ 9 \\ 13 \\ 13 \\ 16 \\ 16 \\ 16$	3 3 9 9 9 2 2	9991414 14	$ \begin{array}{c} 3 \\ 3 \\ 0 \\ 0 \\ 4 \\ 4 \end{array} $			$541 \\ 549 \\ 621 \\ 752 \\ 816 \\ 854$	$552 \\ 561 \\ 635 \\ 772 \\ 839 \\ 880$			$130 \\ 136 \\ 151 \\ 167 \\ 176 \\ 181$	130 136 151 168 177 182
	144 156 169 172 182 186	144 156 169 172 182 186	(a) 	(b) 	(a) 	(b) 			233 250 292 358 392 392	233 250 292 358 392 392	$191 \\ 235 \\ 250 \\ 412 \\ 456 \\ 362$	$191 \\ 235 \\ 250 \\ 412 \\ 456 \\ 362$	$ \begin{array}{r} 111 \\ 121 \\ 135 \\ 145 \\ 160 \\ 166 \\ 166 \\ \end{array} $	$111 \\ 121 \\ 135 \\ 145 \\ 160 \\ 166$
	142 128 132 144 144 140	$144 \\ 130 \\ 134 \\ 146 \\ 146 \\ 142$	$546 \\ 514 \\ 433 \\ 346 \\ 254 \\ 212$	$548 \\ 516 \\ 434 \\ 347 \\ 255 \\ 213$	$285 \\ 430 \\ 637 \\ 1058 \\ 1598 \\ 2387$	$294 \\ 445 \\ 664 \\ 1104 \\ 1671 \\ 2497$	$144 \\ 150 \\ 158 \\ 168 \\ 164 \\ 159$	$144 \\ 151 \\ 158 \\ 169 \\ 166 \\ 160$	160 172 182 181 187 183	$ 161 \\ 173 \\ 184 \\ 183 \\ 188 \\ 185 $	$ \begin{array}{r} 100 \\ 110 \\ 110 \\ 108 \\ 112 \\ 100 \end{array} $	$ \begin{array}{r} 100 \\ 110 \\ 110 \\ 108 \\ 112 \\ 100 \end{array} $	$ \begin{array}{r} 117 \\ 116 \\ 118 \\ 118 \\ 130 \\ 129 \\ \end{array} $	118 117 119 120 131 130
	137 122 142 150 143 161	$138 \\ 122 \\ 142 \\ 150 \\ 143 \\ 161$	$ 133 \\ 127 \\ 141 \\ 154 \\ 159 \\ 168 $	139 133 147 162 171 179	$345 \\ 337 \\ 348 \\ 372 \\ 417 \\ 503$	$343 \\ 335 \\ 346 \\ 369 \\ 414 \\ 500$	686 949 963 874 991 1226	$715 \\968 \\971 \\891 \\1015 \\1244$	$126 \\ 143 \\ 150 \\ 155 \\ 166 \\ 176$	$130 \\ 148 \\ 155 \\ 161 \\ 174 \\ 183$	$94 \\ 99 \\ 106 \\ 108 \\ 113 \\ 116$	$99 \\ 107 \\ 115 \\ 118 \\ 124 \\ 127$	$105 \\ 107 \\ 120 \\ 124 \\ 133 \\ 144$	104 106 119 123 133 144
	166 139 163 180 183 214	$ 159 \\ 135 \\ 158 \\ 174 \\ 176 \\ 207 $	$246 \\ 286 \\ 234 \\ 306 \\ 311 \\ 297$	$246 \\ 286 \\ 234 \\ 306 \\ 311 \\ 297$	$71 \\ 89 \\ 93 \\ 74 \\ 61 \\ 116$	$71 \\ 89 \\ 93 \\ 74 \\ 60 \\ 116$	$114 \\ 152 \\ 158 \\ 167 \\ 199 \\ 189$	$ \begin{array}{r} 113 \\ 152 \\ 160 \\ 169 \\ 201 \\ 191 \end{array} $	189 214 240 272 303 304	$ \begin{array}{r} 177 \\ 202 \\ 225 \\ 257 \\ 286 \\ 288 \\ \end{array} $	$96 \\ 108 \\ 159 \\ 146 \\ 148 \\ 148 \\ 148$	$96 \\ 110 \\ 157 \\ 145 \\ 147 \\$	$108 \\ 118 \\ 134 \\ 136 \\ 143 \\ 163$	$105 \\ 115 \\ 132 \\ 132 \\ 139 \\ 159$
	127 118 127 131 129 137	$ \begin{array}{r} 126 \\ 117 \\ 126 \\ 130 \\ 128 \\ 135 \end{array} $	$153 \\ 170 \\ 162 \\ 156 \\ 150 \\ 162 \\ 162$	$150 \\ 166 \\ 158 \\ 153 \\ 147 \\ 158$	$129 \\ 120 \\ 130 \\ 131 \\ 147 \\ 155$	$131 \\ 121 \\ 131 \\ 133 \\ 150 \\ 156$	$124 \\ 134 \\ 143 \\ 142 \\ 147 \\ 153$	$123 \\ 132 \\ 141 \\ 140 \\ 145 \\ 152$	$115 \\ 122 \\ 127 \\ 130 \\ 132 \\ 136$	$ \begin{array}{r} 109 \\ 116 \\ 119 \\ 118 \\ 122 \\ 124 \end{array} $	$ \begin{array}{r} 111\\ 121\\ 118\\ 129\\ 130\\ 136 \end{array} $	$ \begin{array}{r} 110\\ 118\\ 115\\ 128\\ 129\\ 133 \end{array} $	$107 \\ 109 \\ 118 \\ 119 \\ 124 \\ 129$	$ \begin{array}{r} 105 \\ 107 \\ 116 \\ 116 \\ 120 \\ 125 \end{array} $
	126 113 117 116 121 127	$ \begin{array}{r} 125 \\ 112 \\ 117 \\ 115 \\ 120 \\ 126 \end{array} $	$ \begin{array}{r} 141 \\ 169 \\ 160 \\ 154 \\ 148 \\ 166 \end{array} $	$ \begin{array}{r} 136 \\ 163 \\ 153 \\ 148 \\ 143 \\ 159 \end{array} $	$ \begin{array}{r} 130 \\ 119 \\ 129 \\ 131 \\ 132 \\ 139 \end{array} $	$ \begin{array}{r} 131 \\ 119 \\ 130 \\ 132 \\ 134 \\ 139 \end{array} $	$ \begin{array}{r} 117\\ 122\\ 124\\ 121\\ 135\\ 134 \end{array} $	$ \begin{array}{r} 116\\ 121\\ 123\\ 121\\ 134\\ 133 \end{array} $	$ \begin{array}{r} 104 \\ 108 \\ 109 \\ 108 \\ 109 \\ 112 \end{array} $	$ \begin{array}{r} 103 \\ 108 \\ 108 \\ 107 \\ 108 \\ 111 \end{array} $	$115 \\ 137 \\ 121 \\ 134 \\ 131 \\ 146$	$113 \\ 134 \\ 117 \\ 130 \\ 126 \\ 141$	$104 \\ 103 \\ 111 \\ 110 \\ 112 \\ 117$	$ \begin{array}{r} 103 \\ 102 \\ 110 \\ 109 \\ 111 \\ 116 \end{array} $
	$128 \\ 124 \\ 137 \\ 148 \\ 138 \\ 147$	$ \begin{array}{c c} 126 \\ 123 \\ 136 \\ 147 \\ 137 \\ 145 \end{array} $	178 171 167 162 154 154	$ 181 \\ 174 \\ 169 \\ 163 \\ 155 \\ 154 $	126 123 132 133 171 181	130 125 134 136 177 185	$ 135 \\ 152 \\ 170 \\ 171 \\ 164 \\ 180 $	$ \begin{array}{r} 134 \\ 150 \\ 169 \\ 170 \\ 161 \\ 180 \end{array} $	$ \begin{array}{c c} 142\\ 155\\ 171\\ 182\\ 188\\ 194 \end{array} $	$ \begin{array}{c c} 122\\ 134\\ 144\\ 146\\ 155\\ 157\\ \end{array} $	$ \begin{array}{r} 106 \\ 104 \\ 114 \\ 125 \\ 130 \\ 126 \end{array} $	$ \begin{array}{r} 107 \\ 103 \\ 113 \\ 125 \\ 131 \\ 127 \end{array} $	$ \begin{array}{r} 113 \\ 119 \\ 130 \\ 135 \\ 143 \\ 148 \end{array} $	$ \begin{array}{r} 109 \\ 115 \\ 125 \\ 128 \\ 136 \\ 140 \end{array} $

B. INDICES OF PRODUCTION OF FOODSTUFFS AND

Production in

		Easte	rn and C	entral E	urope	Rest of	Europe		Eur	rope	
Groups of Products	Years	Excl U.S.	uding S.R.	Inclu U.S.	iding S.R.	(Weste Mari	rn and time)	Exclu U.S.	ıding S.R.	Inclu U.S.	iding S.R.
		(a)	(b)	(a)	(b)	(a)	(b)	<i>(a)</i>	(b)	(a)	(b)
Cereals	1923 1924 1925 1926 1927 1928	$96 \\ 82 \\ 106 \\ 100 \\ 99 \\ 112$	96 83 105 100 97 109	77 71 97 100 94 100	79 73 97 100 94 99	$ 103 \\ 94 \\ 112 \\ 100 \\ 100 \\ 101 $	$ 102 \\ 94 \\ 111 \\ 100 \\ 100 \\ 100 $	99 87 109 100 99 107	98 88 108 100 98 105	84 78 101 100 96 100	85 78 101 100 95 99
Cereals and other food crops	1923 1924 1925 1926 1927 1928	$ 100 \\ 97 \\ 113 \\ 100 \\ 110 \\ 118 $	$98 \\ 93 \\ 111 \\ 100 \\ 106 \\ 114$	83 81 102 100 101 105	$82 \\ 80 \\ 101 \\ 100 \\ 99 \\ 103$	98 98 110 100 105 105	$98 \\ 97 \\ 110 \\ 100 \\ 103 \\ 104$	99 97 112 100 108 113	$98 \\ 95 \\ 110 \\ 100 \\ 105 \\ 110$	$87 \\ 85 \\ 104 \\ 100 \\ 102 \\ 105$	86 85 103 100 100 103
Meat	1923 1924 1925 1926 1927 1928	$ \begin{array}{r} 68\\ 84\\ 96\\ 100\\ 106\\ 136\\ \end{array} $	$71 \\ 86 \\ 96 \\ 100 \\ 104 \\ 128$	69 88 97 100 107 127	71 88 97 100 105 121	94 97 100 100 104	$95 \\ 97 \\ 99 \\ 100 \\ 103 \\ 108$	82 91 98 100 105	83 92 98 100 104	80 92 98 100 106	81 92 98 100 104
Colonial produce, Tobacco, Hops	1923 1924 1925 1926 1927 1928	$87 \\ 115 \\ 100 \\ 100 \\ 120 \\ 114$	94 120 101 100 111 101	69 86 98 100 105 94	$71 \\ 84 \\ 98 \\ 100 \\ 99 \\ 85$	71 121 108 100 89 86	$ \begin{array}{r} 73 \\ 115 \\ 108 \\ 100 \\ 90 \\ 90 \\ 90 \\ 90 \\ \end{array} $	80 118 104 100 106 102	86 118 103 100 103 97	$ \begin{array}{r} 70 \\ 97 \\ 101 \\ 100 \\ 100 \\ 92 \end{array} $	71 92 101 100 97 86
Vegetable-oil materials	1923 1924 1925 1926 1927 1928	96 134 105 100 102 128	94 137 104 100 104 132	$76 \\ 97 \\ 105 \\ 100 \\ 104 \\ 104 \\ 104$	$77\\100\\105\\100\\104\\108$	$ \begin{array}{r} 125 \\ 138 \\ 119 \\ 100 \\ 210 \\ 110 \\ \end{array} $	126 139 119 100 211 103	119 137 116 100 186 114	119 138 116 100 188 109	106 121 114 100 167 107	107 124 114 100 171 108
Textiles	1923 1924 1925 1926 1927 1928	$85 \\ 96 \\ 103 \\ 100 \\ 104 \\ 111$		$75\\86\\103\\100\\100\\112$	$75\\88\\104\\100\\99\\111$	70 80 91 100 116 129	71 79 91 100 115 127	$75 \\ 85 \\ 95 \\ 100 \\ 112 \\ 123$	76 86 96 100 111 121	73 83 98 100 108 120	73 84 99 100 106 118
Rubber	1923 1924 1925 1926 1927 1928	·									

RAW MATERIALS WEIGHTED BY : (a) 1926 VALUES ; (b) 1928 VALUES.

1926 = 100.

No Ame	orth erica	Carik	obean	So	uth erica	Af	rica	As	ia	Oce	ania	Wo	orlđ
(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(<i>a</i>)	(b)
$ 110 \\ 94 \\ 101 \\ 100 \\ 106 $	$ 110 \\ 94 \\ 103 \\ 100 \\ 105 $	116 116 90 100 99	115 117 90 100 99	$ \begin{array}{r} 107 \\ 83 \\ 99 \\ 100 \\ 103 \end{array} $	$ \begin{array}{r} 105 \\ 82 \\ 100 \\ 100 \\ 102 \end{array} $	$ \begin{array}{r} 100 \\ 98 \\ 105 \\ 100 \\ 106 \\ 106 \end{array} $	99 99 104 100 106	$ \begin{array}{r} 107 \\ 103 \\ 100 \\ 100 \\ 104 \end{array} $	107 103 100 100 104	78 103 73 100 78	79 104 73 100 79	96 86 100 100 100	97 87 101 100 100
114 110 95 100 100 106 114	$ \begin{array}{r} 113 \\ 110 \\ 95 \\ 103 \\ 100 \\ 106 \\ 114 \\ \end{array} $	98 90 112 105 100 96 109	$97 \\ 91 \\ 112 \\ 104 \\ 100 \\ 96 \\ 108$	109 104 86 98 100 102 106 106	$ 104 \\ 103 \\ 85 \\ 100 \\ 100 \\ 101 \\ 102 $	112 100 102 106 100 113 111	$ \begin{array}{r} 113 \\ 99 \\ 103 \\ 105 \\ 100 \\ 113 \\ 111 \end{array} $	94 96 100 101 100 101 103	95 96 101 101 100 101 103	100 79 101 84 100 90 106	101 80 102 85 100 91 106	105 95 93 102 100 103 107	$ 104 \\ 95 \\ 93 \\ 102 \\ 100 \\ 102 \\ 106 $
$ \begin{array}{r} 108 \\ 108 \\ 100 \\ 100 \\ 101 \\ 103 \end{array} $	$ \begin{array}{r} 104 \\ 105 \\ 99 \\ 100 \\ 99 \\ 99 \\ 99 \\ 99 \\ 99 \\ \end{array} $	$ \begin{array}{r} 100 \\ 97 \\ 97 \\ 100 \\ 103 \\ 108 \end{array} $	$98 \\ 96 \\ 96 \\ 100 \\ 103 \\ 106$	$95 \\ 97 \\ 97 \\ 100 \\ 102 \\ 112$	95 98 97 100 102 111	$90 \\ 92 \\ 94 \\ 100 \\ 107 \\ 108$	$89 \\ 92 \\ 94 \\ 100 \\ 107 \\ 109$	$94 \\ 98 \\ 101 \\ 100 \\ 106 \\ 108$	$95 \\ 99 \\ 101 \\ 100 \\ 104 \\ 105$	$ \begin{array}{r} 103 \\ 102 \\ 98 \\ 100 \\ 109 \\ 115 \end{array} $	$ \begin{array}{r} 103 \\ 105 \\ 100 \\ 100 \\ 108 \\ 113 \end{array} $	93 99 98 100 104 111	$92 \\ 98 \\ 98 \\ 100 \\ 103 \\ 109$
$110 \\ 95 \\ 104 \\ 100 \\ 95 \\ 107$	113 95 105 100 95 107 107	$104 \\ 97 \\ 107 \\ 100 \\ 123 \\ 122$	$ \begin{array}{r} 105 \\ 101 \\ 107 \\ 100 \\ 123 \\ 122 \end{array} $	$ \begin{array}{r} 112 \\ 101 \\ 96 \\ 100 \\ 167 \\ 145 \\ \end{array} $	$ \begin{array}{r} 112 \\ 102 \\ 97 \\ 100 \\ 165 \\ 144 \end{array} $	79 90 89 100 101 96	$78 \\ 90 \\ 96 \\ 100 \\ 100 \\ 103$	$91 \\ 99 \\ 102 \\ 100 \\ 103 \\ 103$	$91 \\ 99 \\ 103 \\ 100 \\ 103 \\ 103 \\ 103$	$114 \\ 110 \\ 100 \\ 100 \\ 131 \\ 115$	$ 113 \\ 103 \\ 100 \\ 100 \\ 140 \\ 117 $	89 90 100 100 118 113	97 98 101 100 117 112
$\begin{array}{c} 66\\ 92\\ 95\\ 100\\ 85\\ 86\end{array}$	$\begin{array}{c} 65\\ 91\\ 94\\ 100\\ 84\\ 85 \end{array}$	$67 \\ 70 \\ 68 \\ 100 \\ 70 \\ 82$	$ \begin{array}{r} 64\\ 68\\ 67\\ 100\\ 66\\ 80 \end{array} $	$85 \\ 70 \\ 109 \\ 100 \\ 114 \\ 117$	$85 \\ 71 \\ 109 \\ 100 \\ 114 \\ 117$	$80 \\ 85 \\ 101 \\ 100 \\ 97 \\ 105$	$81 \\ 85 \\ 102 \\ 100 \\ 97 \\ 105$	$87 \\ 97 \\ 102 \\ 100 \\ 115 \\ 119$	$87 \\ 97 \\ 103 \\ 100 \\ 116 \\ 119$	$\begin{array}{r} 85 \\ 87 \\ 93 \\ 100 \\ 110 \\ 103 \end{array}$	$86 \\ 88 \\ 94 \\ 100 \\ 110 \\ 103$	$\begin{array}{c} 86\\ 96\\ 103\\ 100\\ 116\\ 109 \end{array}$	86 97 104 100 118 108
$58 \\ 76 \\ 89 \\ 100 \\ 77 \\ 87$	58 76 89 100 77 87	$53 \\ 61 \\ 61 \\ 100 \\ 54 \\ 77$	$53 \\ 61 \\ 61 \\ 100 \\ 55 \\ 77$	$98 \\ 96 \\ 101 \\ 100 \\ 102 \\ 106$	$98 \\ 96 \\ 101 \\ 100 \\ 102 \\ 106$	$78\\88\\100\\100\\88\\107$	$78\\88\\100\\100\\88\\107$	$83 \\ 91 \\ 98 \\ 100 \\ 104 \\ 104$	84 93 100 100 106 107	86 80 88 100 104 101	86 80 88 100 104 101	74 84 94 100 95 101	$74 \\ 84 \\ 95 \\ 100 \\ 95 \\ 102$
				83 87 107 100 117 87	83 87 107 100 117 87	$50 \\ 50 \\ 75 \\ 100 \\ 100 \\ 75$	$50 \\ 50 \\ 75 \\ 100 \\ 100 \\ 75$	$73 \\ 75 \\ 89 \\ 100 \\ 169 \\ 105$	73 75 89 100 109 105			74 75 90 100 109 104	74 75 90 100 109 104

Annex III (concluded).

B. INDICES OF PRODUCTION OF FOODSTUFFS AND Production in

		Easte	rn and C	entral E	urope	Rest of	Europe		Eur	ope	
Groups of Products	Years	Exelu U.S.	ıding S.R.	Inclu U.S.	ıding S.R.	(Weste Marit	rn and time)	Exclu U.S.	uding S.R.	Inclu U.S.	ding S.R.
		<i>(a)</i>	(b)	(<i>a</i>)	(<i>b</i>)	(<i>a</i>)	(b)	(<i>a</i>)	(b)	(<i>a</i>)	(b)
Wood-pulp	1923 1924 1925 1926 1927 1928	$ \begin{array}{r} 66\\ 74\\ 92\\ 100\\ 109\\ 116 \end{array} $	$\begin{array}{c} 66 \\ 74 \\ 92 \\ 100 \\ 109 \\ 116 \end{array}$	$\begin{array}{c} 64 \\ 74 \\ 90 \\ 100 \\ 110 \\ 116 \end{array}$	$\begin{array}{c} 65 \\ 74 \\ 90 \\ 100 \\ 110 \\ 117 \end{array}$	$77\\86\\94\\100\\109\\105$	$76 \\ 86 \\ 94 \\ 100 \\ 109 \\ 105$	$73\\82\\94\\100\\109\\109$	73 82 93 100 109 109	$72\\81\\93\\100\\109\\109$	$72\\81\\93\\100\\109\\109$
Cement	1923 1924 1925 1926 1927 1928	$67 \\ 74 \\ 95 \\ 100 \\ 123 \\ 132$	$67 \\ 74 \\ 95 \\ 100 \\ 123 \\ 132$	$60 \\ 68 \\ 89 \\ 100 \\ 123 \\ 134$	$ \begin{array}{r} 60 \\ 68 \\ 89 \\ 100 \\ 123 \\ 134 \end{array} $	$77\\85\\91\\100\\112\\118$	$77\\85\\91\\100\\112\\118$	$73 \\ 81 \\ 92 \\ 100 \\ 116 \\ 123$	$73 \\ 81 \\ 92 \\ 100 \\ 116 \\ 123$	$70 \\ 78 \\ 90 \\ 100 \\ 116 \\ 124$	$70 \\ 78 \\ 90 \\ 100 \\ 116 \\ 124$
Fuels	1923 1924 1925 1926 1927 1928	$ \begin{array}{r} 61 \\ 86 \\ 90 \\ 100 \\ 106 \\ 108 \\ \end{array} $	$62 \\ 85 \\ 90 \\ 100 \\ 106 \\ 109$	$ \begin{array}{c} 60 \\ 82 \\ 88 \\ 100 \\ 109 \\ 113 \end{array} $	$60 \\ 82 \\ 88 \\ 100 \\ 109 \\ 113$	$154 \\ 156 \\ 146 \\ 100 \\ 155 \\ 149$	$154 \\ 155 \\ 146 \\ 100 \\ 155 \\ 149$	$107 \\ 120 \\ 118 \\ 100 \\ 130 \\ 128$	$ \begin{array}{r} 107 \\ 120 \\ 118 \\ 100 \\ 130 \\ 128 \end{array} $	$ \begin{array}{r} 102 \\ 115 \\ 114 \\ 100 \\ 129 \\ 129 \\ 129 \\ \end{array} $	$ \begin{array}{c} 101 \\ 114 \\ 113 \\ 100 \\ 129 \\ 129 \\ 129 \\ \end{array} $
Metals	1923 1924 1925 1926 1927 1928	$\begin{array}{c} 62 \\ 81 \\ 98 \\ 100 \\ 130 \\ 126 \end{array}$	$\begin{array}{c} 62 \\ 81 \\ 98 \\ 100 \\ 130 \\ 125 \end{array}$	$56 \\ 74 \\ 94 \\ 100 \\ 129 \\ 128$	$56 \\ 74 \\ 93 \\ 100 \\ 129 \\ 128$	$ \begin{array}{c c} 87 \\ 102 \\ 105 \\ 100 \\ 120 \\ 128 \\ \end{array} $	88 102 106 100 120 129	$77 \\ 94 \\ 103 \\ 100 \\ 124 \\ 127$	$78 \\ 94 \\ 103 \\ 100 \\ 124 \\ 128$	$74 \\ 90 \\ 101 \\ 100 \\ 124 \\ 128$	$74 \\ 90 \\ 100 \\ 100 \\ 124 \\ 129$
Chemicals (fertilisers)	1923 1924 1925 1926 1927 1928	$\begin{array}{c} 64 \\ 76 \\ 97 \\ 100 \\ 116 \\ 119 \end{array}$	$ \begin{array}{r} 65 \\ 76 \\ 99 \\ 100 \\ 116 \\ 119 \\ \end{array} $	$\begin{array}{c} 63 \\ 76 \\ 97 \\ 100 \\ 116 \\ 119 \end{array}$	$ \begin{array}{r} 65 \\ 76 \\ 99 \\ 100 \\ 116 \\ 119 \end{array} $	$ \begin{array}{c} 83\\ 91\\ 97\\ 100\\ 106\\ 112 \end{array} $	82 91 97 100 106 112	$74 \\ 84 \\ 97 \\ 100 \\ 111 \\ 115$	$75\\84\\98\\100\\111\\115$	$74\\84\\97\\100\\111\\115$	$74\\84\\98\\100\\111\\115$
General Index	1923 1924 1925 1926 1927 1928	$ 84 \\ 91 \\ 105 \\ 100 \\ 111 \\ 120 $	$85 \\ 90 \\ 104 \\ 100 \\ 108 \\ 117$	$76\\81\\99\\100\\105\\111$	$76\\81\\99\\100\\103\\109$	$ \begin{array}{r} 102 \\ 107 \\ 112 \\ 100 \\ 118 \\ 118 \\ 118 \\ \end{array} $	$99 \\ 104 \\ 109 \\ 100 \\ 116 \\ 115$	$93 \\ 99 \\ 108 \\ 100 \\ 115 \\ 119$	$92 \\ 97 \\ 107 \\ 100 \\ 112 \\ 116$	$86 \\ 91 \\ 104 \\ 100 \\ 110 \\ 113$	85 89 103 100 108 111
Foodstuffs	1923 1924 1925 1926 1927 1928	94 94 110 100 109 122	$93 \\ 92 \\ 108 \\ 100 \\ 105 \\ 117$	$81 \\ 82 \\ 101 \\ 100 \\ 102 \\ 109$	$ \begin{array}{r} 80 \\ 82 \\ 100 \\ 100 \\ 100 \\ 106 \end{array} $	97 98 108 100 105 106	$97 \\ 97 \\ 107 \\ 100 \\ 103 \\ 105$	$95 \\ 96 \\ 109 \\ 100 \\ 107 \\ 115$	$95 \\ 94 \\ 107 \\ 100 \\ 105 \\ 112$	$ \begin{array}{r} 86 \\ 87 \\ 103 \\ 100 \\ 103 \\ 108 \end{array} $	$ \begin{array}{r} 85 \\ 86 \\ 102 \\ 100 \\ 101 \\ 106 \end{array} $
Raw materials	1923 1924 1925 1926 1927 1928	$65 \\ 85 \\ 94 \\ 100 \\ 114 \\ 116$	$67 \\ 86 \\ 96 \\ 100 \\ 115 \\ 117$	$ \begin{array}{c} 62 \\ 80 \\ 93 \\ 100 \\ 113 \\ 117 \end{array} $	$ \begin{array}{r} 64 \\ 80 \\ 94 \\ 100 \\ 112 \\ 117 \end{array} $	$ \begin{array}{r} 108 \\ 118 \\ 117 \\ 100 \\ 134 \\ 131 \end{array} $	$ \begin{array}{r} 102 \\ 112 \\ 112 \\ 100 \\ 132 \\ 128 \end{array} $	$90 \\ 104 \\ 107 \\ 100 \\ 125 \\ 125$	$87 \\ 101 \\ 105 \\ 100 \\ 125 \\ 123$	$ \begin{array}{r} 86 \\ 99 \\ 105 \\ 100 \\ 123 \\ 124 \end{array} $	83 96 103 100 122 123

Annex III (concluded).

RAW MATERIALS WEIGHTED BY : (a) 1926 VALUES ; (b) 1928 VALUES. 1926 = 100.

No: Ame	rth rica	Carib	bean	Sou Ame	ıth rica	Afr	ica	As	ia	Ocea	inia	Wo	rld
(a)	(b)	(a)	(b)	(<i>a</i>)	(b)	(a)	(b)	(a)	(b)	(<i>a</i>)	(b)
84 82 89 100 101 107	84 82 89 100 101 107	777100100121212	0 0 0 0 0 2 3 2 3	6 6 10 10 10 11	57 57 00 00 7 .7			$72 \\ 73 \\ 83 \\ 100 \\ 109 \\ 114$	$72 \\ 73 \\ 82 \\ 100 \\ 109 \\ 114$			$78\\81\\90\\100\\106\\108$	$78\\81\\90\\100\\106\\108$
84 91 98 100 106 108	$84 \\ 91 \\ 98 \\ 100 \\ 106 \\ 108$	(a) 	(b) 	(a) 	(b) 			$65 \\ 70 \\ 81 \\ 100 \\ 109 \\ 109 \\ 109$	$\begin{array}{c} 65 \\ 70 \\ 81 \\ 100 \\ 109 \\ 109 \end{array}$	$\begin{array}{c} 46 \\ 57 \\ 61 \\ 100 \\ 111 \\ 88 \end{array}$	$\begin{array}{c} 46 \\ 57 \\ 61 \\ 100 \\ 111 \\ 88 \end{array}$	$76\\84\\93\\100\\110\\115$	$76 \\ 84 \\ 93 \\ 100 \\ 110 \\ 115$
99 89 92 100 99 96	98 89 92 100 100 97	$157 \\ 148 \\ 125 \\ 100 \\ 73 \\ 61$	$158 \\ 149 \\ 125 \\ 100 \\ 73 \\ 61$	$27 \\ 41 \\ 61 \\ 100 \\ 151 \\ 225$	$27 \\ 40 \\ 60 \\ 100 \\ 151 \\ 226$	$85 \\ 89 \\ 94 \\ 100 \\ 98 \\ 95$	$85 \\ 89 \\ 94 \\ 100 \\ 98 \\ 95$	$ \begin{array}{r} 89 \\ 95 \\ 101 \\ 100 \\ $	$ \begin{array}{r} 88 \\ 95 \\ 100 \\ 100 \\ $	$92 \\ 101 \\ 101 \\ 100 \\ 103 \\ 92$	$92 \\ 101 \\ 101 \\ 100 \\ 103 \\ 92$	$99 \\ 98 \\ 100 \\ 100 \\ 110 \\ 108$	$99 \\ 98 \\ 100 \\ 100 \\ 110 \\ 109$
$92 \\ 81 \\ 95 \\ 100 \\ 95 \\ 107$	$92 \\ 81 \\ 95 \\ 100 \\ 95 \\ 107$	$ \begin{array}{r} 86 \\ 81 \\ 90 \\ 100 \\ 106 \\ 111 \end{array} $	86 82 91 100 106 110	$93 \\ 90 \\ 94 \\ 100 \\ 111 \\ 135$	$93 \\ 91 \\ 94 \\ 100 \\ 112 \\ 135$	$81 \\ 108 \\ 108 \\ 100 \\ 114 \\ 138$	$ \begin{array}{r} 80 \\ 109 \\ 109 \\ 100 \\ 114 \\ 140 \end{array} $	$82 \\ 93 \\ 94 \\ 100 \\ 108 \\ 114$	$81 \\ 92 \\ 96 \\ 100 \\ 108 \\ 113$	$83 \\ 90 \\ 98 \\ 100 \\ 106 \\ 108$	$84 \\ 91 \\ 98 \\ 100 \\ 105 \\ 108$	84 86 97 100 107 116	$84 \\ 86 \\ 97 \\ 100 \\ 107 \\ 116$
$91 \\ 78 \\ 91 \\ 100 \\ 101 \\ 119$	$91 \\ 78 \\ 91 \\ 100 \\ 101 \\ 119$	$ \begin{array}{r} 80 \\ 93 \\ 77 \\ 100 \\ 102 \\ 97 \end{array} $	80 93 77 100 102 97	$95 \\ 120 \\ 126 \\ 100 \\ 81 \\ 156$	$95 \\ 120 \\ 126 \\ 100 \\ 81 \\ 156$	$\begin{array}{r} 68\\ 90\\ 95\\ 100\\ 119\\ 113 \end{array}$	$\begin{array}{r} 67 \\ 90 \\ 95 \\ 100 \\ 119 \\ 113 \end{array}$	$ \begin{array}{r} 69\\ 78\\ 87\\ 100\\ 112\\ 113 \end{array} $	$\begin{array}{r} 69 \\ 79 \\ 87 \\ 100 \\ 111 \\ 112 \end{array}$	$65 \\ 75 \\ 108 \\ 100 \\ 103 \\ 103 \\ 103$	$\begin{array}{r} 66\\ 76\\ 108\\ 100\\ 101\\ 101\\ 101\\ \end{array}$	$80 \\ 87 \\ 100 \\ 100 \\ 105 \\ 121$	80 87 100 100 105 121
$97 \\ 90 \\ 96 \\ 100 \\ 99 \\ 104$	$97 \\ 90 \\ 97 \\ 100 \\ 98 \\ 104$	$ \begin{array}{r} 101 \\ 110 \\ 105 \\ 100 \\ 95 \\ 102 \end{array} $	$98 \\ 109 \\ 103 \\ 100 \\ 96 \\ 103$	$98 \\ 91 \\ 98 \\ 100 \\ 114 \\ 121$	$98 \\ 91 \\ 99 \\ 100 \\ 112 \\ 117$	$ 88 \\ 94 \\ 100 \\ 100 \\ 103 \\ 107 $	$ 88 \\ 94 \\ 101 \\ 100 \\ 103 \\ 108 $	$89 \\ 94 \\ 99 \\ 100 \\ 102 \\ 105$	$92 \\ 98 \\ 100 \\ 100 \\ 103 \\ 105$	$86 \\ 93 \\ 90 \\ 100 \\ 100 \\ 104$	$86 \\ 92 \\ 90 \\ 100 \\ 101 \\ 105$	$91 \\ 92 \\ 100 \\ 100 \\ 104 \\ 108$	$91 \\ 92 \\ 100 \\ 100 \\ 104 \\ 108$
$ 109 \\ 99 \\ 100 \\ 100 \\ 105 \\ 111 $	$ 109 \\ 97 \\ 102 \\ 100 \\ 104 \\ 110 $	$92 \\ 110 \\ 104 \\ 100 \\ 97 \\ 109$	$92 \\ 110 \\ 103 \\ 100 \\ 97 \\ 108$	$ \begin{array}{r} 100 \\ 91 \\ 98 \\ 100 \\ 102 \\ 108 \end{array} $	$ \begin{array}{r} 100 \\ 91 \\ 99 \\ 100 \\ 101 \\ 106 \end{array} $	$97 \\ 100 \\ 103 \\ 100 \\ 111 \\ 110$	$96 \\ 100 \\ 102 \\ 100 \\ 111 \\ 111$	$96 \\ 100 \\ 101 \\ 100 \\ 101 \\ 103$	$96 \\ 101 \\ 101 \\ 100 \\ 101 \\ 103$	$ \begin{array}{r} 86 \\ 102 \\ 88 \\ 100 \\ 95 \\ 108 \end{array} $	$ \begin{array}{r} 87 \\ 103 \\ 90 \\ 100 \\ 97 \\ 108 \end{array} $	$95 \\ 94 \\ 101 \\ 100 \\ 103 \\ 108$	$95 \\ 94 \\ 101 \\ 100 \\ 102 \\ 106$
$88 \\ 85 \\ 92 \\ 100 \\ 94 \\ 98$	$86 \\ 84 \\ 93 \\ 100 \\ 93 \\ 98$	$ \begin{array}{r} 116 \\ 110 \\ 106 \\ 100 \\ 93 \\ 92 \end{array} $	$ \begin{array}{r} 111 \\ 106 \\ 103 \\ 100 \\ 95 \\ 94 \end{array} $	$94 \\ 91 \\ 97 \\ 100 \\ 134 \\ 141$	96 92 99 100 131 137	$ \begin{array}{ }79\\88\\98\\100\\96\\104\end{array} $	$ \begin{array}{r} 79 \\ 88 \\ 100 \\ 100 \\ 95 \\ 106 \end{array} $	79 86 96 100 105 107	$ \begin{array}{r} 84 \\ 92 \\ 99 \\ 100 \\ 106 \\ 108 \end{array} $	$ \begin{array}{r} 86 \\ 84 \\ 92 \\ 100 \\ 104 \\ 101 \end{array} $	$ \begin{array}{r} 85\\ 82\\ 91\\ 100\\ 104\\ 101 \end{array} $	$ \begin{array}{r} 86 \\ 90 \\ 97 \\ 100 \\ 107 \\ 109 \end{array} $	$ \begin{array}{r} 85 \\ 90 \\ 98 \\ 100 \\ 106 \\ 109 \end{array} $

Annex IV.

Percentage Distribution of Aggregate Production of Foodstuffs World Totals = 100.

		Ea	stern a Eur	nd Cent ope	ral	Re Eur	est of cope		Eu	cope	
Groups of Products	Years	Exclu U.S.	ıding S.R.	Inclu U.S.	ıding S.R.	(Wes ar Mari	stern nd time)	Exel U.S.	uding .S.R.	Inclu U.S.	ıding S.R.
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(<i>b</i>)
Cereals	1913 1923 1924 1925 1926 1927 1928	$19.7 \\ 16.0 \\ 15.1 \\ 16.8 \\ 15.9 \\ 15.7 \\ 17.0 \\ 17.0 \\ 17.0 \\ 17.0 \\ 17.0 \\ 17.0 \\ 17.0 \\ 17.0 \\ 10.0 \\ $	$20.0 \\ 16.3 \\ 15.7 \\ 17.1 \\ 16.5 \\ 16.1 \\ 17.2 \\ $	$\begin{array}{r} 37.9\\ 28.8\\ 29.8\\ 34.7\\ 36.0\\ 33.7\\ 34.2\end{array}$	$\begin{array}{r} 37.8 \\ 29.2 \\ 30.2 \\ 34.5 \\ 35.9 \\ 33.8 \\ 34.1 \end{array}$	$14.4 \\ 14.3 \\ 14.5 \\ 14.9 \\ 13.3 \\ 13.4 \\ 12.8 $	$13.5 \\ 13.4 \\ 13.7 \\ 13.9 \\ 12.7 \\ 12.6 \\ 12.1 $	$\begin{array}{c} 34.1 \\ 30.3 \\ 29.6 \\ 31.7 \\ 29.2 \\ 29.1 \\ 20.8 \end{array}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	52.3 43.1 44.3 49.6 49.3 47.1 47.0	$51.3 \\ 42.6 \\ 43.9 \\ 48.4 \\ 48.6 \\ 46.4 \\ 46.2$
Cereals and other food crops	1928 1913 1923 1924 1925 1926 1927 1928	$20.4 \\ 16.9 \\ 16.8 \\ 17.9 \\ 16.1 \\ 17.2 \\ 17.8$	17.2 18.9 15.5 15.2 16.4 15.1 15.7 16.3	33.6 27.6 27.6 31.6 31.6 31.2 31.1	31.9 25.6 25.8 29.4 29.8 29.1 29.1	$12.3 \\ 12.7 \\ 11.9 \\ 12.2 \\ 12.5 \\ 11.5 \\ 11.8 \\ 11.4$	12.1 11.5 11.0 11.2 11.5 10.7 10.8 10.4	29.8 33.1 28.8 29.0 30.4 27.6 29.0 29.2	$\begin{array}{c} 29.3 \\ 30.4 \\ 26.5 \\ 26.4 \\ 27.9 \\ 25.8 \\ 26.5 \\ 26.7 \end{array}$	$\begin{array}{c} 47.0\\ 46.3\\ 39.5\\ 39.8\\ 44.1\\ 43.1\\ 43.0\\ 42.5\end{array}$	$\begin{array}{c} 43.4\\ 36.6\\ 37.0\\ 40.9\\ 40.5\\ 39.9\\ 39.5\end{array}$
Meat	1913 1923 1924 1925 1926 1927 1928	$17.5 \\ 11.1 \\ 13.1 \\ 14.9 \\ 15.3 \\ 15.8 \\ 18.6$	$17.0 \\ 11.5 \\ 13.2 \\ 14.8 \\ 15.1 \\ 15.4 \\ 17.8 \\ $	$\begin{array}{c} 26.1 \\ 17.0 \\ 20.3 \\ 22.5 \\ 22.9 \\ 23.6 \\ 26.2 \end{array}$	$\begin{array}{c} 26.0 \\ 17.9 \\ 20.9 \\ 22.8 \\ 23.1 \\ 23.7 \\ 25.8 \end{array}$	$ \begin{array}{r} 17.9 \\ 17.1 \\ 16.8 \\ 17.2 \\ 17.0 \\ 17.0 \\ 17.0 \\ 16.4 \\ \end{array} $	$ 17.9 \\ 17.1 \\ 16.6 \\ 16.8 \\ 16.6 \\ 16.7 \\ 16.5 $	$\begin{array}{c c} 35.4 \\ 28.2 \\ 29.9 \\ 32.1 \\ 32.3 \\ 32.8 \\ 35.0 \end{array}$	$\begin{array}{c} 34.9 \\ 28.6 \\ 29.8 \\ 31.6 \\ 31.7 \\ 32.1 \\ 34.3 \end{array}$	$\begin{array}{r} 44.0\\ 34.1\\ 37.1\\ 39.7\\ 39.9\\ 40.6\\ 42.6\end{array}$	$\begin{array}{r} 43.9\\ 35.0\\ 37.5\\ 39.6\\ 39.7\\ 40.4\\ 42.3 \end{array}$
Colonial produce, Tobacco, Hops	1913 1923 1924 1925 1926 1927 1928	$6.9 \\ 4.7 \\ 6.1 \\ 4.8 \\ 4.8 \\ 4.9 \\ 4.9 \\ 4.9$	$5.1 \\ 4.0 \\ 5.1 \\ 4.1 \\ 4.1 \\ 3.9 \\ 3.7$	$9.6 \\ 6.6 \\ 8.1 \\ 8.3 \\ 8.5 \\ 7.6 \\ 7.1$	$\begin{array}{c} 8.0 \\ 5.9 \\ 7.0 \\ 7.9 \\ 8.1 \\ 6.9 \\ 6.1 \end{array}$	$\begin{array}{c} 4.5 \\ 3.1 \\ 5.2 \\ 4.2 \\ 3.9 \\ 3.0 \\ 3.0 \end{array}$	$\begin{array}{c} 2.6 \\ 2.0 \\ 3.0 \\ 2.7 \\ 2.6 \\ 2.0 \\ 2.1 \end{array}$	11.4 7.8 11.3 9.0 8.7 7.9 7.9	$\begin{array}{c} 7.7 \\ 6.0 \\ 8.1 \\ 6.8 \\ 6.7 \\ 5.9 \\ 5.8 \end{array}$	$\begin{array}{c} 14.1 \\ 9.7 \\ 13.3 \\ 12.5 \\ 12.4 \\ 10.6 \\ 10.1 \end{array}$	$ \begin{array}{c} 10.6 \\ 7.9 \\ 10.0 \\ 10.6 \\ 10.7 \\ 8.9 \\ 8.2 \end{array} $
Vegetable-oil materials	1913 1923 1924 1925 1926 1927 1928	$3.6 \\ 3.2 \\ 4.0 \\ 3.0 \\ 2.9 \\ 2.6 \\ 3.4$	5.0 3.5 4.5 3.2 3.2 2.8 3.9	$\begin{array}{c} 8.8 \\ 6.2 \\ 6.9 \\ 7.1 \\ 7.0 \\ 6.2 \\ 6.7 \end{array}$	$9.2 \\ 6.5 \\ 7.4 \\ 7.3 \\ 7.2 \\ 6.4 \\ 7.8$	$13.7 \\ 15.0 \\ 14.7 \\ 11.9 \\ 10.2 \\ 18.5 \\ 10.3$	$15.9 \\18.1 \\17.7 \\14.3 \\12.4 \\22.2 \\11.8$	$17.3 \\ 18.2 \\ 18.7 \\ 14.9 \\ 13.1 \\ 21.1 \\ 13.7 \\$	$\begin{array}{c} 20.9\\ 21.6\\ 22.2\\ 17.5\\ 15.6\\ 25.0\\ 15.7\end{array}$	$\begin{array}{c} 22.5\\ 21.2\\ 21.6\\ 19.0\\ 17.2\\ 24.7\\ 17.0 \end{array}$	$\begin{array}{c} 25.1 \\ 24.6 \\ 25.1 \\ 21.6 \\ 19.6 \\ 28.6 \\ 19.6 \end{array}$
Textiles	1913 1923 1924 1925 1926 1927 1928	$\begin{array}{c} 4.2 \\ 4.5 \\ 4.4 \\ 4.2 \\ 3.8 \\ 4.3 \\ 4.2 \end{array}$	$\begin{array}{c} 4.8 \\ 5.1 \\ 5.0 \\ 4.7 \\ 4.3 \\ 4.7 \\ 4.6 \end{array}$	$12.7 \\ 9.2 \\ 9.3 \\ 9.8 \\ 9.0 \\ 9.5 \\ 10.0$	$\begin{array}{c} 15.1 \\ 10.7 \\ 10.9 \\ 11.5 \\ 10.5 \\ 11.0 \\ 11.4 \end{array}$	$\begin{array}{c} 6.4 \\ 7.3 \\ 7.3 \\ 7.5 \\ 7.7 \\ 9.4 \\ 9.8 \end{array}$	$\begin{array}{c} 6.7 \\ 7.6 \\ 7.5 \\ 7.7 \\ 8.0 \\ 9.7 \\ 10.0 \end{array}$	$10.6 \\ 11.8 \\ 11.7 \\ 11.7 \\ 11.5 \\ 13.7 \\ 14.0$	$11.5 \\ 12.7 \\ 12.5 \\ 12.4 \\ 12.3 \\ 14.4 \\ 14.6$	$19.1 \\ 16.5 \\ 16.6 \\ 17.3 \\ 16.7 \\ 18.9 \\ 19.8$	$21.8 \\18.3 \\18.4 \\19.2 \\18.5 \\20.7 \\21.4$
Rubber	1913 1923 1924 1925 1926 1927 1928										

Annex IV.

AND RAW MATERIALS WEIGHTED BY : (a) 1926 VALUES; (b) 1928 VALUES. World Totals = 100.

Nor Ame	rth rrica	Caribl	Dean	Sou Ame	ith rica	Afr	ica	- As	sia	Ocea	inia	Wo	rld
(a)	(b)	(a)	(b)	(a)	(b)	(<i>a</i>)	(b)	<i>(a)</i>	(b)	(<i>a</i>)	(b)	(<i>a</i>)	(b)
$\begin{array}{c} 30.6\\ 38.2\\ 36.3\\ 33.7\\ 33.4\\ 35.3\\ 36.2 \end{array}$	$\begin{array}{c} 32.4\\ 39.6\\ 37.6\\ 35.4\\ 34.7\\ 36.7\\ 37.6\end{array}$	$\begin{array}{c} 0.9 \\ 0.8 \\ 0.9 \\ 0.6 \\ 0.7 \\ 0.7 \\ 0.6 \end{array}$	$1.0 \\ 0.9 \\ 1.0 \\ 0.7 \\ 0.8 \\ 0.7 \\ 0.7 \\ 0.7$	$\begin{array}{c} 4.2 \\ 6.2 \\ 5.4 \\ 5.5 \\ 5.6 \\ 5.8 \\ 5.8 \\ 5.8 \end{array}$	$\begin{array}{c} 4.3 \\ 6.1 \\ 5.3 \\ 5.6 \\ 5.6 \\ 5.7 \\ 5.6 \end{array}$	$2.3 \\ 2.5 \\ 2.7 \\ 2.5 \\ 2.4 \\ 2.6 \\ 2.6$	$2.3 \\ 2.6 \\ 2.8 \\ 2.5 \\ 2.5 \\ 2.6 \\ 2.7$	$\begin{array}{c} 8.4 \\ 7.5 \\ 8.1 \\ 6.7 \\ 6.7 \\ 7.0 \\ 6.0 \end{array}$	7.77.07.56.36.36.75.7	$1.3 \\ 1.7 \\ 2.3 \\ 1.4 \\ 1.9 \\ 1.5 \\ 1.8$	$1.0 \\ 1.2 \\ 1.9 \\ 1.1 \\ 1.5 \\ 1.2 \\ 1.5$	10 14 14 14 14 14 14	00 00 00 00 00 00 00
$19.6 \\ 23.8 \\ 21.2 \\ 20.3 \\ 20.6 \\ 21.4 \\ 22.0$	21.7 25.9 23.0 22.5 22.4 23.3 24.0	$1.7 \\ 2.5 \\ 3.2 \\ 2.7 \\ 2.6 \\ 2.4 \\ 2.7$	$1.8 \\ 2.5 \\ 3.2 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.7$	$3.0 \\ 4.6 \\ 3.9 \\ 4.1 \\ 4.2 \\ 4.2 \\ 4.2$	3.2 4.8 4.0 4.3 4.4 4.4 4.2	$2.0 \\ 2.3 \\ 2.4 \\ 2.2 \\ 2.2 \\ 2.4 \\ 2.2 \\ 2.4 \\ 2.2$	$2.1 \\ 2.4 \\ 2.5 \\ 2.4 \\ 2.3 \\ 2.5 \\ 2.4 \\ 2.4$	$\begin{array}{c} 26.3 \\ 26.0 \\ 27.8 \\ 25.3 \\ 25.7 \\ 25.2 \\ 24.8 \end{array}$	$\begin{array}{c} 26.8\\ 26.6\\ 28.7\\ 26.0\\ 26.4\\ 26.1\\ 25.8 \end{array}$	$1.1 \\ 1.3 \\ 1.7 \\ 1.3 \\ 1.6 \\ 1.4 \\ 1.6$	$1.0 \\ 1.2 \\ 1.6 \\ 1.2 \\ 1.4 \\ 1.3 \\ 1.4$	$ \begin{array}{r} 100 \\ 1$	
$29.4 \\ 38.5 \\ 36.4 \\ 33.6 \\ 33.2 \\ 32.4 \\ 30.7$	$\begin{array}{c} 27.4 \\ 34.7 \\ 33.0 \\ 31.0 \\ 30.8 \\ 29.9 \\ 28.1 \end{array}$	$1.7 \\ 1.8 \\ 1.6 \\ 1.7 $	$1.8 \\ 1.9 \\ 1.8 \\ 1.8 \\ 1.8 \\ 1.8 \\ 1.8 \\ 1.7 \\ 1.7 \\$	$13.5 \\ 13.0 \\ 12.7 \\ 12.7 \\ 12.9 \\ 12.6 \\ 12.9$	$13.8 \\ 14.2 \\ 13.9 \\ 13.8 \\ 13.9 \\ 13.7 \\ 14.2$	3.2 3.3 3.2 3.2 3.4 3.5 3.3	3.7 3.9 3.8 3.8 4.0 4.2 4.0	$5.3 \\ 6.4 \\ 6.3 \\ 6.5 \\ 6.3 \\ 6.5 \\ 6.1$	$\begin{array}{c} 6.2 \\ 7.1 \\ 7.0 \\ 7.1 \\ 6.9 \\ 7.0 \\ 6.7 \end{array}$	$2.9 \\ 2.9 \\ 2.7 \\ 2.6 \\ 2.6 \\ 2.7 \\ 2.7 \\ 2.7$	$\begin{array}{c} 3.2 \\ 3.2 \\ 3.0 \\ 2.9 \\ 2.9 \\ 3.0 \\ 3.0 \\ 3.0 \end{array}$	1 1 1 1 1 1	00 00 00 00 00 00 00
$15.0 \\ 15.9 \\ 13.6 \\ 13.4 \\ 12.9 \\ 10.5 \\ 12.2$	$13.9 \\ 15.3 \\ 12.7 \\ 13.5 \\ 13.0 \\ 10.6 \\ 12.4$	$7.5 \\ 6.9 \\ 6.4 \\ 6.4 \\ 6.0 \\ 6.2 \\ 6.5$	$7.7 \\ 6.7 \\ 6.4 \\ 6.5 \\ 6.2 \\ 6.5 \\ 6.6$	$\begin{array}{c} 25.7 \\ 29.5 \\ 26.3 \\ 22.6 \\ 23.5 \\ 33.3 \\ 30.2 \end{array}$	$25.4 \\ 27.3 \\ 24.3 \\ 22.4 \\ 23.4 \\ 33.0 \\ 30.0$	$2.5 \\ 6.0 \\ 6.8 \\ 6.0 \\ 6.8 \\ 5.8 $	$2.8 \\ 6.0 \\ 6.9 \\ 7.2 \\ 7.5 \\ 6.5 \\ 6.9$	$\begin{array}{c} 35.0 \\ 31.7 \\ 33.3 \\ 38.9 \\ 38.2 \\ 33.3 \\ 35.0 \end{array}$	39.4 36.6 39.4 39.5 38.9 34.3 35.7	$\begin{array}{c} 0.2 \\ 0.3 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.3 \\ 0.2 \end{array}$	$\begin{array}{c} 0.2 \\ 0.2 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.2 \\ 0.2 \end{array}$		00 00 00 00 00 00 00
$18.0 \\ 13.1 \\ 16.2 \\ 15.6 \\ 16.9 \\ 12.4 \\ 13.4$	$ \begin{array}{r} 19.0 \\ 14.1 \\ 17.4 \\ 17.0 \\ 18.7 \\ 13.3 \\ 14.7 \end{array} $	$\begin{array}{c} 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.6 \\ 0.3 \\ 0.4 \end{array}$	$\begin{array}{c} 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.6 \\ 0.3 \\ 0.4 \end{array}$	$\begin{array}{c} 4.9 \\ 8.0 \\ 5.9 \\ 8.5 \\ 8.0 \\ 7.9 \\ 8.6 \end{array}$	$\begin{array}{c} 4.9\\ 8.0\\ 5.9\\ 8.5\\ 8.1\\ 7.8\\ 8.8\end{array}$	$11.1 \\ 12.6 \\ 11.8 \\ 13.1 \\ 13.4 \\ 11.2 \\ 12.9$	$10.5 \\ 12.3 \\ 11.4 \\ 12.8 \\ 13.0 \\ 10.6 \\ 12.7$	$\begin{array}{r} 42.4\\ 43.6\\ 43.1\\ 42.4\\ 42.9\\ 42.5\\ 46.7\end{array}$	$\begin{array}{r} 39.6\\ 39.7\\ 39.0\\ 38.9\\ 39.1\\ 38.5\\ 42.9\end{array}$	$\begin{array}{c} 0.7 \\ 1.1 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \end{array}$	$\begin{array}{c} 0.5 \\ 0.9 \\ 0.8 \\ 0.8 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \end{array}$		00 00 00 00 00 00 00 00 00
$\begin{array}{c} 29.7 \\ 25.6 \\ 29.4 \\ 30.7 \\ 32.5 \\ 26.4 \\ 27.8 \end{array}$	$\begin{array}{c} 29.6 \\ 25.9 \\ 29.5 \\ 30.8 \\ 32.9 \\ 26.6 \\ 28.1 \end{array}$	$\begin{array}{c} 0.5 \\ 0.5 \\ 0.5 \\ 0.4 \\ 0.6 \\ 0.4 \\ 0.5 \end{array}$	$\begin{array}{c} 0.5 \\ 0.5 \\ 0.5 \\ 0.4 \\ 0.6 \\ 0.4 \\ 0.5 \end{array}$	5.5 6.5 5.6 5.3 4.9 5.3 5.2	5.7 6.8 5.9 5.5 5.2 5.5 5.4	5.1 5.7 5.7 5.7 5.4 5.0 5.7	5.2 5.8 5.8 5.9 5.6 5.2 5.9	$\begin{array}{c} 32.4\\ 36.6\\ 35.2\\ 33.7\\ 32.5\\ 35.9\\ 33.6\end{array}$	$\begin{array}{c} 29.1 \\ 33.5 \\ 32.4 \\ 30.9 \\ 29.3 \\ 32.9 \\ 30.8 \end{array}$	7.78.67.06.97.48.17.4	$\begin{array}{c} 8.1 \\ 9.2 \\ 7.5 \\ 7.3 \\ 7.9 \\ 8.7 \\ 7.9 \end{array}$	$ \begin{array}{r} 100 \\ 1$	
				39.5 5.2 5.3 5.4 4.5 4.9 3.8	$\begin{array}{c} 39.5 \\ 5.2 \\ 5.3 \\ 5.4 \\ 4.5 \\ 4.9 \\ 3.8 \end{array}$	$ \begin{array}{c} 15.8 \\ 0.8 \\ 0.8 \\ 1.0 \\ 1.2 \\ 1.1 \\ 0.9 \end{array} $	$15.8 \\ 0.8 \\ 0.8 \\ 1.0 \\ 1.2 \\ 1.1 \\ 0.9$	$\begin{array}{c} 44.7\\ 94.0\\ 93.9\\ 93.6\\ 94.3\\ 94.0\\ 95.3\end{array}$	$\begin{array}{c} 44.7\\ 94.0\\ 93.9\\ 93.6\\ 94.3\\ 94.0\\ 95.3\end{array}$			100 100	

PERCENTAGE DISTRIBUTION OF AGGREGATE PRODUCTION OF FOODSTUFFS

		Easter	n and C	Central I	Europe	Rest of	Europe		Eur	ope	
Groups of Products	Years	Exclu U.S.	uding S.R.	Inclu U.S.	iding S.R.	(Weste Mari	rn and time)	Exclu U.S.	ıding S.R.	Inclu U.S.	ıding .S.R.
		(a)	(b)	(<i>a</i>)	(b)	(a)	(b)	(a)	(b)	(a)	(b)
Wood-Pulp	1913 1923 1924 1925 1926 1927	$24.8 \\ 15.3 \\ 16.5 \\ 18.4 \\ 18.0 \\ 18.6$	$24.9 \\ 15.4 \\ 16.6 \\ 18.5 \\ 18.0 \\ 18.7$	$27.7 \\ 15.7 \\ 17.2 \\ 18.9 \\ 18.9 \\ 19.7$	27.8 15.8 17.2 19.0 19.0 19.7	$\begin{array}{c} 32.0 \\ 29.1 \\ 31.2 \\ 30.8 \\ 29.5 \\ 30.6 \end{array}$	$\begin{array}{c} 32.3\\ 29.4\\ 31.6\\ 31.0\\ 29.8\\ 30.9 \end{array}$	$56.8 \\ 44.4 \\ 47.7 \\ 49.2 \\ 47.5 \\ 49.2$	$57.2 \\ 44.8 \\ 48.2 \\ 49.5 \\ 47.8 \\ 49.6$	59.744.848.449.748.450.3	$\begin{array}{c} 60.1 \\ 45.2 \\ 48.8 \\ 50.0 \\ 48.8 \\ 50.6 \end{array}$
	1928	19.2	19.3	20.3	20.4	28.6	28.8	47.8	48.1	48.9	49.2
Cement	$ 1913 \\ 1923 \\ 1924 \\ 1925 \\ 1926 \\ 1927 \\ 1928 $	$27.1 \\ 12.2 \\ 12.3 \\ 14.2 \\ 13.9 \\ 15.5 \\ 16.0$	$27.1 \\ 12.2 \\ 12.3 \\ 14.2 \\ 13.9 \\ 15.5 \\ 16.0$	$\begin{array}{c} 31.7\\ 12.7\\ 13.1\\ 15.4\\ 16.1\\ 17.9\\ 18.8 \end{array}$	$\begin{array}{c} 31.7 \\ 12.7 \\ 13.1 \\ 15.4 \\ 16.1 \\ 17.9 \\ 18.8 \end{array}$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	23.626.426.725.726.326.727.1	$50.7 \\ 38.6 \\ 39.0 \\ 39.9 \\ 40.2 \\ 42.2 \\ 43.1$	$50.7 \\ 38.6 \\ 39.0 \\ 39.9 \\ 40.2 \\ 42.2 \\ 43.1$	$55.3 \\ 39.1 \\ 39.8 \\ 41.1 \\ 42.4 \\ 44.6 \\ 45.9$	55.339.139.841.142.444.645.9
Fuels	1913 1923 1924 1925 1926 1927 1928	$16.8 \\ 9.4 \\ 13.1 \\ 13.6 \\ 15.1 \\ 14.6 \\ 15.0$	$16.8 \\ 9.4 \\ 12.9 \\ 13.5 \\ 14.8 \\ 14.4 \\ 14.8$	20.5 11.0 15.1 15.9 18.1 18.0 18.8	$\begin{array}{c} 20.7 \\ 11.0 \\ 15.0 \\ 15.8 \\ 18.0 \\ 17.8 \\ 18.7 \end{array}$	$\begin{array}{c} 27.5\\ 22.8\\ 23.2\\ 21.5\\ 14.7\\ 20.8\\ 20.2 \end{array}$	$\begin{array}{c} 27.0\\ 22.0\\ 22.3\\ 20.6\\ 14.1\\ 19.9\\ 19.3 \end{array}$	$\begin{array}{r} 44.3\\32.2\\36.3\\35.1\\29.8\\35.4\\35.2\end{array}$	$\begin{array}{r} 43.8\\ 31.4\\ 35.2\\ 34.1\\ 28.9\\ 34.3\\ 34.1\end{array}$	48.0 33.8 38.3 37.4 32.8 38.8 39.0	$\begin{array}{r} 47.7\\ 33.0\\ 37.3\\ 36.4\\ 32.1\\ 37.7\\ 38.0 \end{array}$
Metals	$1913 \\ 1923 \\ 1924 \\ 1925 \\ 1926 \\ 1927 \\ 1928$	$18.9 \\10.0 \\12.8 \\13.8 \\13.6 \\16.5 \\14.7$	$18.8 \\9.9 \\12.8 \\13.8 \\13.6 \\16.5 \\14.7$	$\begin{array}{c} 23.2 \\ 10.5 \\ 13.7 \\ 15.4 \\ 15.9 \\ 19.1 \\ 17.6 \end{array}$	$\begin{array}{c} 23.2 \\ 10.5 \\ 13.7 \\ 15.3 \\ 15.9 \\ 19.2 \\ 17.5 \end{array}$	$\begin{array}{c} 27.3\\ 22.7\\ 26.1\\ 23.8\\ 21.9\\ 24.5\\ 24.2 \end{array}$	$\begin{array}{c} 27.1 \\ 22.5 \\ 25.8 \\ 23.6 \\ 21.6 \\ 24.2 \\ 23.9 \end{array}$	$\begin{array}{r} 46.2\\ 32.7\\ 38.9\\ 37.6\\ 35.5\\ 41.0\\ 38.9\end{array}$	$\begin{array}{r} 45.9\\32.4\\38.6\\37.4\\35.2\\40.7\\38.6\end{array}$	$50.5 \\ 33.2 \\ 39.8 \\ 39.2 \\ 37.8 \\ 43.6 \\ 41.8$	$50.3 \\ 33.0 \\ 39.5 \\ 38.9 \\ 37.5 \\ 43.4 \\ 41.4$
Chemicals (fertilisers)	1913 1923 1924 1925 1926 1927 1928	$23.3 \\ 21.1 \\ 22.9 \\ 25.8 \\ 26.4 \\ 29.3 \\ 25.8 \\ 25.8 \\$	$\begin{array}{c} 25.0\\ 22.2\\ 23.8\\ 26.9\\ 27.1\\ 30.0\\ 26.7 \end{array}$	$\begin{array}{c} 23.7 \\ 21.2 \\ 23.0 \\ 25.9 \\ 26.6 \\ 29.5 \\ 26.1 \end{array}$	$\begin{array}{c} 25.4 \\ 22.2 \\ 23.9 \\ 27.1 \\ 27.3 \\ 30.2 \\ 27.0 \end{array}$	$\begin{array}{c} 31.3\\ 32.9\\ 33.0\\ 30.9\\ 31.7\\ 32.1\\ 29.4 \end{array}$	$\begin{array}{c} 31.3\\ 32.9\\ 33.2\\ 31.0\\ 31.9\\ 32.1\\ 29.6 \end{array}$	$54.6 \\ 54.0 \\ 55.9 \\ 56.7 \\ 58.1 \\ 61.4 \\ 55.2$	$56.3 \\ 55.1 \\ 57.0 \\ 57.9 \\ 59.0 \\ 62.1 \\ 56.3$	$55.0 \\ 54.1 \\ 56.0 \\ 56.8 \\ 58.3 \\ 61.6 \\ 55.5$	$56.7 \\ 55.1 \\ 57.1 \\ 58.1 \\ 59.2 \\ 62.3 \\ 56.6$
Total Production	1913 1923 1924 1925 1926 1927 1928	$17.3 \\ 12.6 \\ 13.5 \\ 14.3 \\ 13.7 \\ 14.5 \\ 15.0$	$\begin{array}{r} 16.4 \\ 12.2 \\ 12.8 \\ 13.6 \\ 13.1 \\ 13.7 \\ 14.2 \end{array}$	$\begin{array}{c} 26.5 \\ 19.0 \\ 20.2 \\ 22.7 \\ 22.9 \\ 22.9 \\ 23.3 \end{array}$	$\begin{array}{r} 26.2 \\ 18.9 \\ 19.9 \\ 22.3 \\ 22.6 \\ 22.5 \\ 22.8 \end{array}$	$\begin{array}{r} 16.3 \\ 15.0 \\ 15.5 \\ 15.0 \\ 13.3 \\ 15.1 \\ 14.5 \end{array}$	$\begin{array}{r} 14.9\\ 13.9\\ 14.3\\ 13.9\\ 12.7\\ 14.2\\ 13.6 \end{array}$	33.6 27.6 29.0 29.3 27.0 29.6 29.5	$\begin{array}{c} 31.3\\ 26.1\\ 27.1\\ 27.5\\ 25.8\\ 27.9\\ 27.8\end{array}$	$\begin{array}{r} 42.8\\ 34.0\\ 35.7\\ 37.7\\ 36.2\\ 38.0\\ 37.8\end{array}$	$\begin{array}{r} 41.1\\ 32.8\\ 34.2\\ 36.2\\ 35.3\\ 36.7\\ 36.4\end{array}$
Foodstuffs	1913 1923 1924 1925 1926 1927 1928	19.9 15.8 16.1 17.3 15.9 16.9 18.0	$18.5 \\ 14.7 \\ 14.8 \\ 16.0 \\ 15.1 \\ 15.6 \\ 16.6 \\ 16.6 \\$	$\begin{array}{c} 32.2 \\ 25.5 \\ 26.1 \\ 29.9 \\ 29.9 \\ 29.7 \\ 30.1 \end{array}$	$\begin{array}{c} 30.8\\ 24.1\\ 24.8\\ 28.2\\ 28.5\\ 28.0\\ 28.4\end{array}$	$13.6 \\ 12.9 \\ 13.1 \\ 13.4 \\ 12.6 \\ 12.8 \\ 12.4$	$12.7 \\ 12.2 \\ 12.3 \\ 12.5 \\ 11.8 \\ 12.0 \\ 11.7$	$\begin{array}{c} 33.5\\ 28.7\\ 29.2\\ 30.7\\ 28.5\\ 29.7\\ 30.4 \end{array}$	$\begin{array}{c} 31.2\\ 26.9\\ 27.1\\ 28.5\\ 26.9\\ 27.6\\ 28.3 \end{array}$	$\begin{array}{r} 45.8\\ 38.4\\ 39.2\\ 43.3\\ 42.5\\ 42.5\\ 42.5\\ 42.5\\ \end{array}$	$\begin{array}{r} 43.5\\ 36.3\\ 37.1\\ 40.7\\ 40.3\\ 40.0\\ 40.1 \end{array}$
Raw Materials	1913 1923 1924 1925 1926 1927 1928	$13.4 \\ 8.1 \\ 10.2 \\ 10.4 \\ 10.8 \\ 11.6 \\ 11.4$	$12.7 \\ 7.9 \\ 9.7 \\ 9.9 \\ 10.1 \\ 10.9 \\ 10.8$	$18.1 \\ 10.1 \\ 12.5 \\ 13.3 \\ 14.0 \\ 14.8 \\ 14.9$	$18.2 \\10.3 \\12.4 \\13.3 \\13.8 \\14.6 \\14.7$	$20.3 \\ 17.9 \\ 18.6 \\ 17.1 \\ 14.2 \\ 17.8 \\ 17.1 \\ 17.1 \\ 17.1 \\ 17.1 \\ 17.1 \\ 17.1 \\ 17.1 \\ 1000 \\ $	$18.6 \\ 16.8 \\ 17.4 \\ 16.1 \\ 14.0 \\ 17.4 \\ 16.4$	$\begin{array}{c} 33.7\\ 26.0\\ 28.8\\ 27.5\\ 25.0\\ 29.4\\ 28.5 \end{array}$	$\begin{array}{c} 31.3\\ 24.7\\ 27.1\\ 26.0\\ 24.1\\ 28.3\\ 27.2 \end{array}$	38.4 28.0 31.1 30.4 28.2 32.6 32.0	$\begin{array}{c} 36.8 \\ 27.1 \\ 29.8 \\ 29.4 \\ 27.8 \\ 32.0 \\ 31.1 \end{array}$

World Totals = 100.

Annex IV (concluded).

AND RAW MATERIALS WEIGHTED BY : (a) 1926 VALUES ; (b) 1928 VALUES.

World Totals = 100.

No Ame	rth erica	Carib	bean	So Ame	uth erica	Afı	rica	A	sia	Oce	ania	World
(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(<i>a</i>)	(b)	$(a) \mid (b)$
$\begin{array}{r} 39.2 \\ 51.7 \\ 48.2 \\ 46.8 \\ 47.8 \\ 45.8 \\ 47.1 \end{array}$	$\begin{array}{r} 38.8 \\ 51.4 \\ 47.9 \\ 46.5 \\ 47.4 \\ 45.5 \\ 46.8 \end{array}$	0. 0. 0. 0. 0.	3 2 2 3 3 3 3	0. 0. 0. 0. 0. 0.	3 2 2 3 3 3 3 3			$\begin{array}{c} 0.8\\ 3.3\\ 3.2\\ 3.2\\ 3.2\\ 3.5\\ 3.6\\ 3.7\end{array}$	$\begin{array}{c} 0.8\\ 3.2\\ 3.1\\ 3.2\\ 3.5\\ 3.6\\ 3.7 \end{array}$			$ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 100 $
$\begin{array}{c} 41.4 \\ 54.0 \\ 53.4 \\ 51.8 \\ 49.3 \\ 47.2 \\ 46.3 \end{array}$	$\begin{array}{r} 41.4\\ 54.0\\ 53.4\\ 51.8\\ 49.3\\ 47.2\\ 46.3\end{array}$	(a) 		(a) 	(b) 			$2.9 \\ 6.2 \\ 6.0 \\ 6.3 \\ 7.2 \\ 7.1 \\ 6.9$	$2.9 \\ 6.2 \\ 6.0 \\ 6.3 \\ 7.2 \\ 7.1 \\ 6.9$	$\begin{array}{c} 0.4 \\ 0.7 \\ 0.8 \\ 0.8 \\ 1.1 \\ 1.1 \\ 0.9 \end{array}$	$\begin{array}{c} 0.4 \\ 0.7 \\ 0.8 \\ 0.8 \\ 1.1 \\ 1.1 \\ 0.9 \end{array}$	$ \begin{array}{r} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100 \end{array} $
$\begin{array}{r} 44.9 \\ 54.4 \\ 49.1 \\ 50.0 \\ 54.6 \\ 49.4 \\ 48.5 \end{array}$	$\begin{array}{r} 45.1 \\ 54.9 \\ 49.9 \\ 50.8 \\ 55.1 \\ 50.2 \\ 49.2 \end{array}$	$0.7 \\ 3.4 \\ 3.3 \\ 2.7 \\ 2.2 \\ 1.4 \\ 1.2$	$\begin{array}{c} 0.8\\ 3.8\\ 3.6\\ 3.0\\ 2.4\\ 1.6\\ 1.3 \end{array}$	$\begin{array}{c} 0.2 \\ 0.4 \\ 0.6 \\ 0.9 \\ 1.5 \\ 2.0 \\ 3.1 \end{array}$	$\begin{array}{c} 0.2 \\ 0.4 \\ 0.7 \\ 1.0 \\ 1.6 \\ 2.3 \\ 3.4 \end{array}$	$\begin{array}{c} 0.6 \\ 0.7 \\ 0.8 \\ 0.8 \\ 0.9 \\ 0.8 \\ 0.8 \\ 0.8 \end{array}$	$\begin{array}{c} 0.6 \\ 0.7 \\ 0.8 \\ 0.8 \\ 0.8 \\ 0.7 \\ 0.7 \end{array}$	$\begin{array}{r} 4.6 \\ 6.4 \\ 6.9 \\ 7.2 \\ 7.1 \\ 6.7 \\ 6.6 \end{array}$	$\begin{array}{r} 4.6 \\ 6.4 \\ 6.8 \\ 7.1 \\ 7.1 \\ 6.6 \\ 6.6 \end{array}$	$1.0 \\ 0.9 \\ 1.0 \\ 1.0 \\ 0.9 \\ 0.9 \\ 0.8$	$1.0 \\ 0.8 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.9 \\ 0.8$	$ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 $
$\begin{array}{r} 41.5\\ 55.4\\ 48.2\\ 49.6\\ 50.8\\ 45.1\\ 46.8\end{array}$	$\begin{array}{r} 42.1 \\ 55.9 \\ 48.7 \\ 50.0 \\ 51.3 \\ 45.4 \\ 47.2 \end{array}$	$1.7 \\ 2.3 \\ 2.2 \\ 2.1 \\ 2.3 \\ 2.2 \\ 2.2 \\ 2.2 \\ 2.2$	$1.7 \\ 2.3 \\ 2.1 \\ 2.1 \\ 2.2 \\ 2.2 \\ 2.1$	$\begin{array}{c} 0.6 \\ 2.0 \\ 1.9 \\ 1.8 \\ 1.8 \\ 1.9 \\ 2.1 \end{array}$	$\begin{array}{c} 0.7 \\ 2.2 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.1 \\ 2.4 \end{array}$	$\begin{array}{c} 0.1 \\ 0.6 \\ 0.7 \\ 0.7 \\ 0.6 \\ 0.6 \\ 0.7 \end{array}$	$\begin{array}{c} 0.1 \\ 0.6 \\ 0.8 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.8 \end{array}$	$\begin{array}{c} 4.2 \\ 5.2 \\ 5.8 \\ 5.2 \\ 5.3 \\ 5.3 \\ 5.2 \\ 5.3 \\ 5.2 \end{array}$	$3.8 \\ 4.8 \\ 5.4 \\ 5.0 \\ 5.0 \\ 5.0 \\ 4.9$	$1.4 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.4 \\ 1.3 \\ 1.2$	$1.3 \\ 1.2 \\ 1.3 \\ 1.3 \\ 1.3 \\ 1.2 \\ 1.2 \\ 1.2$	$ \begin{array}{r} 100 \\ 1$
15.222.717.718.219.819.119.5	$15.0 \\ 22.7 \\ 17.7 \\ 18.1 \\ 19.8 \\ 19.1 \\ 19.6$	$\begin{array}{c} 0.0 \\ 0.1 \\ 0.1 \\ 0.0 \\ 0.1 \\ 0.1 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.1 \\ 0.1 \\ 0.0 \\ 0.1 \\ 0.1 \\ 0.0 \end{array}$	$\begin{array}{c} 24.3 \\ 16.3 \\ 18.8 \\ 17.3 \\ 13.7 \\ 10.6 \\ 17.6 \end{array}$	$22.7 \\ 15.2 \\ 17.6 \\ 16.1 \\ 12.8 \\ 9.9 \\ 16.5$	$ \begin{array}{c} 1.8\\ 1.9\\ 2.3\\ 2.2\\ 2.3\\ 2.6\\ 2.1 \end{array} $	$1.9 \\ 2.0 \\ 2.4 \\ 2.3 \\ 2.4 \\ 2.7 \\ 2.2$	$ \begin{array}{c} 1.9\\ 3.3\\ 3.4\\ 3.4\\ 3.8\\ 4.1\\ 3.6 \end{array} $	$ \begin{array}{r} 1.9 \\ 3.3 \\ 3.4 \\ 3.3 \\ 3.8 \\ 4.0 \\ 3.5 \\ \end{array} $	$1.8 \\ 1.6 \\ 1.7 \\ 2.1 \\ 2.0 \\ 1.9 \\ 1.7$	$1.8 \\ 1.6 \\ 1.7 \\ 2.1 \\ 1.9 \\ 1.9 \\ 1.6$	$ \begin{array}{r} 100 \\ 1$
$\begin{array}{c} 27.2\\ 32.9\\ 30.3\\ 29.6\\ 30.8\\ 29.1\\ 29.4 \end{array}$	$\begin{array}{c} 26.9\\ 32.1\\ 29.5\\ 29.3\\ 30.2\\ 28.6\\ 29.1 \end{array}$	$ \begin{array}{c} 1.6\\ 2.4\\ 2.6\\ 2.3\\ 2.2\\ 2.0\\ 2.1 \end{array} $	$1.7 \\ 2.4 \\ 2.6 \\ 2.3 \\ 2.2 \\ 2.1 \\ 2.1$	$\begin{array}{r} 4.8 \\ 5.9 \\ 5.4 \\ 5.3 \\ 5.4 \\ 6.0 \\ 6.1 \end{array}$	$5.2 \\ 6.4 \\ 5.9 \\ 5.9 \\ 5.9 \\ 6.4 \\ 6.5$	$2.3 \\ 2.6 \\ 2.8 \\ 2.7 $	$2.5 \\ 2.9 \\ 3.1 \\ 3.1 \\ 3.1 \\ 3.0 \\ 3.1$	$ \begin{array}{c} 19.5 \\ 20.3 \\ 21.2 \\ 20.6 \\ 20.7 \\ 20.3 \\ 20.0 \end{array} $	$\begin{array}{c} 20.7 \\ 21.4 \\ 22.5 \\ 21.3 \\ 21.2 \\ 21.1 \\ 20.7 \end{array}$	$ \begin{array}{r} 1.8 \\ 1.9 \\ 2.0 \\ 1.8 \\ 2.0 \\ 1.9 \\ 1$	$ \begin{array}{c} 1.9\\ 2.0\\ 2.2\\ 1.9\\ 2.1\\ 2.1\\ 2.1\\ 2.1 \end{array} $	$ \begin{array}{r} 100 \\ 1$
$\begin{array}{c} 21.4 \\ 26.6 \\ 24.3 \\ 22.8 \\ 23.0 \\ 23.5 \\ 23.8 \end{array}$	$\begin{array}{c} 22.7\\ 27.6\\ 25.0\\ 24.1\\ 24.1\\ 24.5\\ 24.8\end{array}$	$1.8 \\ 2.4 \\ 2.9 \\ 2.5 \\ 2.4 \\ 2.3 \\ 2.5$	$1.8 \\ 2.4 \\ 2.9 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.5$	5.0 6.2 5.7 5.7 5.9 5.8 5.9	$5.2 \\ 6.5 \\ 6.0 \\ 6.1 \\ 6.2 \\ 6.2 \\ 6.2 \\ 6.2$	$2.2 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.4 \\ 2.6 \\ 2.4$	$2.4 \\ 2.7 \\ 2.8 \\ 2.6 \\ 2.6 \\ 2.9 \\ 2.7$	$\begin{array}{c} 22.4 \\ 22.3 \\ 23.5 \\ 21.8 \\ 22.0 \\ 21.6 \\ 21.1 \end{array}$	$\begin{array}{c} 23.0 \\ 22.9 \\ 24.3 \\ 22.5 \\ 22.6 \\ 22.4 \\ 22.0 \end{array}$	$1.4 \\ 1.6 \\ 1.9 \\ 1.5 \\ 1.8 \\ 1.7 \\ 1.8$	$1.4 \\ 1.6 \\ 1.9 \\ 1.5 \\ 1.7 \\ 1.6 \\ 1.7$	$ \begin{array}{r} 100 \\ 1$
$\begin{array}{c c} 35.6 \\ 41.6 \\ 38.1 \\ 38.5 \\ 40.5 \\ 35.8 \\ 36.4 \end{array}$	$\begin{array}{c c} 34.1 \\ 39.3 \\ 36.5 \\ 37.2 \\ 39.2 \\ 34.3 \\ 35.3 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 1.4\\ 2.4\\ 2.2\\ 2.0\\ 1.9\\ 1.7\\ 1.6 \end{array} $	$\begin{array}{c c} 4.6 \\ 5.3 \\ 5.0 \\ 4.9 \\ 4.9 \\ 6.1 \\ 6.3 \\ \end{array}$	$5.2 \\ 6.2 \\ 5.7 \\ 5.6 \\ 5.5 \\ 6.8 \\ 6.9$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$2.8 \\ 3.4 \\ 3.6 \\ 3.8 \\ 3.7 \\ 3.3 \\ 3.6 \\ 3.6 \\$	15.3 17.5 18.3 18.9 19.1 18.8 18.7	16.8 18.8 19.6 19.4 19.1 19.1 18.9	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	

Annex V.

PERCENTAGE DISTRIBUTION OF AGGREGATE PRODUCTION OF FOODSTUFFS AND RAW Total of Each Continent = 100.

		Easter	rn and (entral E	lurope	Rest of	Europe		Eu	rope	
Groups of Products	Years	Exclu U.S.	iding S.R.	Inclu U.S.	ding S.R.	(Wester Marin	rn and time)	Exclu U.S.S	iding S.R.	Inclu U.S.	ding S.R.
		(<i>a</i>)	(b)	(a)	(b)	(a)	(b)	(<i>a</i>)	(b)	<i>(a)</i>	(b)
Cereals	1913 1923 1924 1925 1926 1927 1928	$\begin{array}{r} 32.6\\ 34.3\\ 26.8\\ 30.3\\ 29.9\\ 26.6\\ 28.0 \end{array}$	$\begin{array}{r} 40.0\\ 42.0\\ 34.0\\ 37.5\\ 37.1\\ 33.3\\ 34.5\end{array}$	$\begin{array}{r} 40.9\\ 40.9\\ 35.4\\ 39.5\\ 40.3\\ 36.1\\ 36.3\end{array}$	$\begin{array}{r} 47.2 \\ 48.3 \\ 42.0 \\ 46.1 \\ 46.8 \\ 42.6 \\ 42.7 \end{array}$	$\begin{array}{c} 25.1 \\ 25.8 \\ 22.5 \\ 25.7 \\ 25.6 \\ 21.7 \\ 22.0 \end{array}$	$29.7 \\ 30.1 \\ 26.6 \\ 29.8 \\ 29.3 \\ 25.2 \\ 25.5 \\$	$28.9 \\ 29.7 \\ 24.5 \\ 27.9 \\ 27.8 \\ 24.1 \\ 25.0 \\$	35.1 35.7 30.1 33.6 33.3 29.2 30.1	$\begin{array}{r} 34.9\\ 34.3\\ 29.8\\ 34.0\\ 34.9\\ 30.4\\ 30.8 \end{array}$	$\begin{array}{r} 40.9\\ 40.6\\ 35.6\\ 39.8\\ 40.5\\ 35.8\\ 36.2 \end{array}$
Food crops other than Cereals	1913 1923 1924 1925 1926 1927 1928	$24.6 \\ 28.7 \\ 29.4 \\ 27.2 \\ 23.1 \\ 25.8 \\ 24.4$	19.622.223.621.618.420.919.8	$20.5 \\ 27.0 \\ 26.3 \\ 24.6 \\ 21.8 \\ 23.8 \\ 22.8$	$15.7 \\ 20.0 \\ 20.8 \\ 18.8 \\ 16.7 \\ 18.5 \\ 17.7$	$12.4 \\ 11.5 \\ 13.1 \\ 12.7 \\ 13.4 \\ 12.9 \\ 12.8$	$10.5 \\ 9.8 \\ 11.3 \\ 10.8 \\ 11.1 \\ 10.9 \\ 10.9 \\ 10.9$	$18.7 \\19.3 \\20.7 \\19.8 \\18.3 \\19.2 \\18.7$	$15.2 \\ 15.6 \\ 17.1 \\ 16.2 \\ 14.8 \\ 15.7 \\ 15.4$	$17.4 \\ 20.1 \\ 20.6 \\ 19.9 \\ 18.7 \\ 19.5 \\ 19.0$	$13.8 \\ 15.7 \\ 16.8 \\ 15.8 \\ 14.7 \\ 15.6 \\ 15.2$
Meat	1913 1923 1924 1925 1926 1927 1928	$11.3 \\ 9.7 \\ 11.0 \\ 10.9 \\ 11.9 \\ 11.5 \\ 13.5$	$12.3 \\ 11.2 \\ 12.7 \\ 12.4 \\ 13.4 \\ 12.9 \\ 14.6$	$10.9 \\ 9.7 \\ 11.5 \\ 10.4 \\ 10.7 \\ 10.9 \\ 12.2$	$11.8 \\ 11.1 \\ 12.9 \\ 11.6 \\ 11.9 \\ 12.1 \\ 13.2$	$\begin{array}{c} 12.2 \\ 12.5 \\ 12.3 \\ 12.1 \\ 13.5 \\ 11.9 \\ 12.4 \end{array}$	$14.3 \\ 14.5 \\ 14.3 \\ 13.8 \\ 15.2 \\ 13.5 \\ 14.3$	$11.7 \\ 11.2 \\ 11.7 \\ 11.5 \\ 12.7 \\ 11.7 \\ 13.0$	$13.3 \\ 13.0 \\ 13.5 \\ 13.1 \\ 14.3 \\ 13.2 \\ 14.5$	$11.4 \\ 10.9 \\ 11.8 \\ 11.0 \\ 11.7 \\ 11.2 \\ 12.3$	$12.7 \\ 12.6 \\ 13.5 \\ 12.5 \\ 13.1 \\ 12.7 \\ 13.6$
Colonial produce, Tobacco, Hops	1913 1923 1924 1925 1926 1927 1928	$1.0 \\ 1.4 \\ 1.6 \\ 1.2 \\ 1.3 \\ 1.4 \\ 1.2$	$1.0 \\ 1.3 \\ 1.6 \\ 1.1 \\ 1.1 \\ 1.2 \\ 1.0$	$1.0 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.4 \\ 1.4 \\ 1.2$	$1.0 \\ 1.2 \\ 1.4 \\ 1.3 \\ 1.3 \\ 1.3 \\ 1.0$	$\begin{array}{c} 0.7 \\ 0.7 \\ 1.2 \\ 1.0 \\ 1.1 \\ 0.8 \\ 0.8 \end{array}$	$\begin{array}{c} 0.5 \\ 0.6 \\ 0.8 \\ 0.7 \\ 0.8 \\ 0.6 \\ 0.6 \\ 0.6 \end{array}$	$\begin{array}{c} 0.9 \\ 1.0 \\ 1.4 \\ 1.1 \\ 1.2 \\ 1.1 \\ 1.0 \end{array}$	$\begin{array}{c} 0.8 \\ 0.9 \\ 1.2 \\ 0.9 \\ 1.0 \\ 0.9 \\ 0.8 \end{array}$	$\begin{array}{c} 0.9 \\ 1.0 \\ 1.3 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.0 \end{array}$	$\begin{array}{c} 0.8 \\ 0.9 \\ 1.1 \\ 1.1 \\ 1.1 \\ 1.0 \\ 0.9 \end{array}$
Vegetable-oil materials	1913 1923 1924 1925 1926 1927 1928	$\begin{array}{c} 0.7 \\ 0.7 \\ 0.9 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.7 \end{array}$	$\begin{array}{c} 0.9 \\ 0.9 \\ 1.2 \\ 0.8 \\ 0.8 \\ 0.7 \\ 0.9 \end{array}$	$\begin{array}{c} 0.8\\ 0.9\\ 1.1\\ 0.9\\ 0.9\\ 0.9\\ 0.9\\ 0.8\end{array}$	$1.0 \\ 1.0 \\ 1.3 \\ 1.1 \\ 1.0 \\ 1.1 \\ 1.1 \\ 1.1$	$2.1 \\ 2.7 \\ 2.9 \\ 2.4 \\ 2.2 \\ 4.0 \\ 2.1$	$3.1 \\ 4.0 \\ 4.2 \\ 3.4 \\ 3.1 \\ 5.7 \\ 2.8$	$1.4 \\ 1.8 \\ 2.0 \\ 1.5 \\ 1.4 \\ 2.3 \\ 1.4$	$ \begin{array}{c} 1.9\\ 2.5\\ 2.8\\ 2.1\\ 1.9\\ 3.3\\ 1.8 \end{array} $	$1.3 \\ 1.7 \\ 1.9 \\ 1.5 \\ 1.4 \\ 2.1 \\ 1.3$	$1.8 \\ 2.3 \\ 2.5 \\ 2.0 \\ 1.8 \\ 2.8 \\ 1.7$
Textiles	1913 1923 1924 1925 1926 1927 1928	$2.0 \\ 2.7 \\ 2.8 \\ 2.6 \\ 2.6 \\ 2.4 \\ 2.4$	$2.9 \\ 3.7 \\ 3.9 \\ 3.6 \\ 3.6 \\ 3.4 \\ 3.3$	$\begin{array}{r} 4.0\\ 3.6\\ 3.9\\ 3.8\\ 3.6\\ 3.5\\ 3.7\end{array}$	$5.6 \\ 5.0 \\ 5.4 \\ 5.3 \\ 5.0 \\ 4.8 \\ 5.1$	$3.3 \\ 3.7 \\ 4.0 \\ 4.4 \\ 5.3 \\ 5.2 \\ 5.8$	$\begin{array}{r} 4.4 \\ 4.8 \\ 5.2 \\ 5.7 \\ 6.8 \\ 6.8 \\ 7.5 \end{array}$	$2.6 \\ 3.2 \\ 3.4 \\ 3.5 \\ 3.9 \\ 3.9 \\ 4.1$	$3.6 \\ 4.3 \\ 4.6 \\ 4.7 \\ 5.2 \\ 5.1 \\ 5.4$	$3.7 \\ 3.6 \\ 3.9 \\ 4.0 \\ 4.3 \\ 4.2 \\ 4.5$	$5.2 \\ 4.9 \\ 5.3 \\ 5.4 \\ 5.6 \\ 5.6 \\ 6.0$
Rubber	1913 1923 1924 1925 1926 1927 1928										

Annex V.

MATERIALS	BY	GROUPS	OF	PRODUCTS	WEIGHTI	D BY	: (a)	1926	VALUES;	(b)	1928	VALUES.
				7	Cotal of H	ach O	ontin	ent =	100			

No: Ame	rth erica	Carib	bean	Sou Ame	ith erica	Afı	rica	As	ia	Ocea	ınia	Wo	rlđ
(<i>a</i>)	(b)	(a)	(b)	(a)	(b)	(<i>a</i>)	(b)	(a)	(b)	(<i>a</i>)	(b)	(<i>a</i>)	(b)
$\begin{array}{c} 32.1 \\ 31.4 \\ 28.8 \\ 29.4 \\ 27.8 \\ 29.9 \\ 30.5 \end{array}$	$\begin{array}{r} 39.4 \\ 38.7 \\ 35.2 \\ 36.0 \\ 33.9 \\ 36.3 \\ 36.9 \end{array}$	$ \begin{array}{r} 16.8 \\ 8.8 \\ 8.1 \\ 6.6 \\ 7.7 \\ 8.0 \\ 7.4 \\ \end{array} $	$20.9 \\ 11.6 \\ 10.7 \\ 8.6 \\ 9.9 \\ 10.2 \\ 9.4$	$\begin{array}{r} 25.1 \\ 28.9 \\ 24.2 \\ 26.7 \\ 26.4 \\ 23.9 \\ 23.9 \\ 23.9 \end{array}$	$27.0 \\ 30.0 \\ 25.1 \\ 28.4 \\ 28.0 \\ 25.4 \\ 24.7$	28.626.123.823.922.923.523.9	29.426.925.124.523.824.524.7	$12.2 \\ 10.0 \\ 9.1 \\ 8.5 \\ 8.3 \\ 8.5 \\ 7.5$	$ \begin{array}{r} 12.2 \\ 10.2 \\ 9.2 \\ 8.8 \\ 8.8 \\ 8.9 \\ 7.9 \\ 7.9 \\ \end{array} $	$ 19.9 \\ 22.2 \\ 27.0 \\ 19.6 \\ 24.2 \\ 18.9 \\ 23.3 $	$17.9 \\ 19.7 \\ 24.3 \\ 17.5 \\ 21.5 \\ 16.8 \\ 20.6$	28.527.024.025.825.624.524.8	$\begin{array}{c} 32.8\\ 31.3\\ 27.7\\ 29.8\\ 29.4\\ 28.4\\ 28.6 \end{array}$
2.82.52.92.22.32.62.7	$2.3 \\ 2.2 \\ 2.5 \\ 1.9 \\ 1.9 \\ 2.3 \\ 2.2$	36.4 39.6 46.9 47.6 46.3 46.2 50.0	$\begin{array}{c} 35.4 \\ 41.6 \\ 48.5 \\ 49.4 \\ 47.5 \\ 46.9 \\ 50.6 \end{array}$	5.3 8.2 8.8 8.3 8.5 7.2 6.6	$\begin{array}{r} 4.7 \\ 7.5 \\ 8.0 \\ 7.7 \\ 7.7 \\ 6.8 \\ 6.3 \end{array}$	$13.8 \\ 14.7 \\ 15.4 \\ 14.1 \\ 13.1 \\ 15.9 \\ 13.3$	$13.3 \\ 14.1 \\ 14.7 \\ 13.5 \\ 12.5 \\ 15.2 \\ 12.6$	$52.9 \\ 50.2 \\ 50.1 \\ 48.2 \\ 47.4 \\ 46.3 \\ 47.3$	$54.8 \\ 52.7 \\ 52.7 \\ 51.5 \\ 51.2 \\ 49.8 \\ 51.0$	$9.9 \\10.6 \\11.8 \\13.4 \\11.2 \\13.0 \\12.5$	$9.2 \\ 9.9 \\ 11.4 \\ 12.7 \\ 10.6 \\ 12.3 \\ 12.0$	$19.9 \\ 19.9 \\ 21.3 \\ 20.3 \\ 19.3 \\ 19.7 \\ 19.5$	$19.0 \\ 19.2 \\ 20.8 \\ 19.5 \\ 18.8 \\ 19.0 \\ 18.8 \\ 19.0 \\ 18.8 \\ 19.0 \\ 18.8 \\ 19.0 \\ 18.8 \\ 19.0 \\ 18.8 \\ 19.0 \\ 18.8 \\ 10.0 \\ $
$12.0 \\ 12.8 \\ 13.7 \\ 11.9 \\ 11.5 \\ 11.7 \\ 11.4$	$12.1 \\ 12.8 \\ 13.8 \\ 12.1 \\ 11.8 \\ 12.0 \\ 11.3$	$12.3 \\ 8.2 \\ 7.3 \\ 7.6 \\ 8.3 \\ 8.9 \\ 8.7$	$12.5 \\ 9.2 \\ 8.2 \\ 8.7 \\ 9.3 \\ 10.0 \\ 9.5$	$\begin{array}{c} 31.1 \\ 24.4 \\ 27.0 \\ 25.1 \\ 25.2 \\ 22.3 \\ 23.2 \end{array}$	$\begin{array}{c} 31.8\\ 26.2\\ 29.2\\ 26.8\\ 27.1\\ 24.5\\ 25.7 \end{array}$	$15.7 \\ 13.7 \\ 13.2 \\ 12.6 \\ 13.4 \\ 13.8 \\ 13.6$	$17.3 \\ 15.6 \\ 15.0 \\ 14.3 \\ 15.3 \\ 15.8 \\ 15.3 \\ $	3.0 3.4 3.3 3.3 3.3 3.3 3.4	3.6 3.9 3.9 3.8 3.8 3.9 3.8	$17.6 \\ 16.5 \\ 15.2 \\ 15.1 \\ 13.8 \\ 15.0 \\ 15.1$	$19.5 \\ 18.4 \\ 17.5 \\ 17.1 \\ 15.4 \\ 16.6 \\ 16.6$	$11.1 \\ 10.9 \\ 11.4 \\ 10.5 \\ 10.6 \\ 10.5 \\ 10.9$	$11.9 \\ 11.8 \\ 12.3 \\ 11.4 \\ 11.6 \\ 11.5 \\ 11.7$
$1.6 \\ 1.8 \\ 1.7 \\ 1.7 \\ 1.6 \\ 1.5 \\ 1.6$	$1.6 \\ 1.9 \\ 1.7 \\ 1.7 \\ 1.6 \\ 1.5 \\ 1.6$	$^{\cdot 15.3}_{10.4}_{8.9}_{10.4}_{10.1}_{13.0}_{12.1}$	$14.6 \\ 10.8 \\ 9.4 \\ 10.5 \\ 10.1 \\ 12.9 \\ 11.9$	$17.2 \\18.4 \\17.8 \\15.8 \\16.0 \\23.3 \\19.1$	$15.7 \\ 16.6 \\ 16.2 \\ 14.2 \\ 14.5 \\ 21.3 \\ 17.8$	3.7 8.4 9.0 8.3 9.3 9.1 8.4	3.6 8.1 8.7 8.6 9.1 8.9 8.6	$\begin{array}{c} 6.4 \\ 5.7 \\ 5.7 \\ 7.1 \\ 6.8 \\ 6.8 \\ 6.7 \end{array}$	$\begin{array}{c} 6.1 \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.8 \\ 6.7 \\ 6.6 \end{array}$	$\begin{array}{c} 0.5 \\ 0.6 \\ 0.5 \\ 0.5 \\ 0.4 \\ 0.5 \\ 0.5 \\ 0.5 \end{array}$	$\begin{array}{c} 0.3 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.3 \end{array}$	3.2 3.7 3.6 3.7 3.7 4.2 3.9	3.2 3.9 3.9 3.7 3.7 4.1 3.8
$1.7 \\ 1.1 \\ 1.6 \\ 1.6 \\ 1.6 \\ 1.4 \\ 1.3$	$2.1 \\ 1.3 \\ 2.0 \\ 1.9 \\ 2.0 \\ 1.7 \\ 1.7$	$\begin{array}{c} 0.6 \\ 0.5 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.5 \\ 0.6 \end{array}$	$\begin{array}{c} 0.7 \\ 0.6 \\ 0.5 \\ 0.5 \\ 0.8 \\ 0.6 \\ 0.7 \end{array}$	$2.6 \\ 3.8 \\ 3.3 \\ 4.8 \\ 4.3 \\ 4.3 \\ 4.1$	$2.7 \\ 3.8 \\ 3.4 \\ 4.9 \\ 4.4 \\ 4.5 \\ 4.4$	$12.5 \\ 13.2 \\ 13.1 \\ 14.6 \\ 14.4 \\ 13.6 \\ 14.1$	$12.2 \\ 12.7 \\ 12.4 \\ 13.9 \\ 13.8 \\ 12.9 \\ 13.4$	$5.5 \\ 5.9 \\ 6.2 \\ 6.2 \\ 6.0 \\ 6.8 \\ 6.8 \\ 6.8$	$5.5 \\ 5.6 \\ 5.9 \\ 6.1 \\ 5.9 \\ 6.7 \\ 6.7 \\ 6.7$	$\begin{array}{c} 0.9 \\ 1.6 \\ 1.5 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.6 \end{array}$	$0.8 \\ 1.4 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.5 \\ 1.4$	2.52.73.02.93.22.9	2.93.03.43.33.23.73.2
$9.1 \\ 5.8 \\ 8.2 \\ 9.1 \\ 9.8 \\ 7.6 \\ 8.2$	$10.8 \\ 7.1 \\ 9.9 \\ 10.8 \\ 11.8 \\ 9.2 \\ 9.8$	$2.7 \\ 1.4 \\ 1.5 \\ 1.6 \\ 2.7 \\ 1.6 \\ 2.1$	3.0 1.7 1.8 1.9 3.1 1.8 2.3	9.58.48.98.78.37.47.3	$10.8 \\ 9.3 \\ 9.9 \\ 9.6 \\ 9.4 \\ 8.5 \\ 8.5 \\ 8.5$	$18.8 \\ 16.3 \\ 17.4 \\ 18.5 \\ 18.5 \\ 15.7 \\ 18.5 \\ 18.5 \\ 15.7 \\ 18.5 \\ 18.5 \\ 10.5 \\ $	$20.2 \\ 17.4 \\ 18.4 \\ 19.6 \\ 19.7 \\ 16.8 \\ 19.5$	$13.8 \\ 13.5 \\ 14.0 \\ 14.4 \\ 14.6 \\ 14.8 \\ 14.5$	$13.7 \\ 13.8 \\ 14.3 \\ 15.0 \\ 14.9 \\ 15.5 \\ 15.2$	35.3 34.0 29.2 33.5 34.0 35.3 33.0	$\begin{array}{r} 40.9\\ 39.7\\ 34.4\\ 39.0\\ 39.8\\ 41.0\\ 38.6 \end{array}$	$\begin{array}{c} 8.3 \\ 7.5 \\ 8.4 \\ 8.8 \\ 9.3 \\ 8.4 \\ 8.6 \end{array}$	$9.8 \\ 8.8 \\ 9.9 \\ 10.3 \\ 10.8 \\ 9.9 \\ 10.2$
				$2.0 \\ 0.9 \\ 1.0 \\ 1.1 \\ 1.0 \\ 1.1 \\ 0.7$	$\begin{array}{c} 0.9 \\ 0.4 \\ 0.4 \\ 0.5 \\ 0.4 \\ 0.5 \\ 0.3 \end{array}$	$ \begin{array}{c} 1.7\\ 0.3\\ 0.3\\ 0.4\\ 0.6\\ 0.6\\ 0.4 \end{array} $	$\begin{array}{c} 0.7 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \end{array}$	$\begin{array}{c} 0.6\\ 3.5\\ 3.6\\ 4.2\\ 5.4\\ 5.1\\ 5.4\end{array}$	$\begin{array}{c} 0.3 \\ 1.6 \\ 1.6 \\ 2.0 \\ 2.5 \\ 2.4 \\ 2.5 \end{array}$			$\begin{array}{c} 0.3 \\ 0.8 \\ 0.8 \\ 0.9 \\ 1.2 \\ 1.1 \\ 1.1 \end{array}$	$\begin{array}{c} 0.1 \\ 0.4 \\ 0.5 \\ 0.6 \\ 0.5 \\ 0.6 \end{array}$

Annex V (concluded).

PERCENTAGE DISTRIBUTION OF AGGREGATE PRODUCTION OF FOODSTUFFS AND RAW $Total \ of \ Each \ Continent = 100.$

		Easter	n and Central Europe			Rest of		Europe			
Groups of Products	Years	Exch U.S.	ıding S.R.	Inclu U.S.	ding S.R.	(Wester Marit	rn and time)	Excluding U.S.S.R.		Inclu U.S.S	ding S.R.
		(a)	(b)	(a)	(b)	(a)	(b)	<i>(a)</i>	(b)	(<i>a</i>)	(<i>b</i>)
Wood-pulp	1913 1923 1924 1925 1926 1927 1928	$1.2 \\ 1.2 \\ 1.2 \\ 1.3 \\ 1.5 $	$ \begin{array}{c} 1.0 \\ 1.1 \\ 1.1 \\ 1.2 \\ 1.4 \\ 1.4 \\ 1.4 \end{array} $	$0.8 \\ 0.8 \\ 0.8 \\ 0.9 \\ 0.9 \\ 1.0 \\ 1.0$	$0.7 \\ 0.7 \\ 0.7 \\ 0.8 \\ 0.8 \\ 0.9 \\ 0.9 \\ 0.9$	$1.6 \\ 1.9 \\ 2.0 \\ 2.1 \\ 2.5 \\ 2.3 \\ 2.2$	$1.5 \\ 1.8 \\ 2.0 \\ 2.0 \\ 2.3 \\ 2.2 \\ 2.1$	$1.3 \\ 1.6 \\ 1.6 \\ 1.7 \\ 2.0 \\ 1.9 \\ 1.8$	$1.3 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.8 \\ 1.7$	$1.1 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.5 $	$1.0 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.4 \\ 1.4 \\ 1.4 \\ 1.4$
Cement	1913 1923 1924 1925 1926 1927 1928	$1.5 \\ 1.0 \\ 1.0 \\ 1.1 \\ 1.4 \\ 1.6 \\ 1.7$	$1.7 \\ 1.1 \\ 1.1 \\ 1.3 \\ 1.5 \\ 1.8 \\ 2.0$	$1.2 \\ 0.7 \\ 0.7 \\ 0.8 \\ 0.9 \\ 1.1 \\ 1.2$	$1.3 \\ 0.8 \\ 0.8 \\ 0.8 \\ 1.0 \\ 1.2 \\ 1.4$	$1.4 \\ 1.8 \\ 1.8 \\ 1.9 \\ 2.4 \\ 2.3 \\ 2.4$	$1.7 \\ 2.1 \\ 2.3 \\ 2.7 \\ 2.6 \\ 2.8$	$1.5 \\ 1.4 \\ 1.4 \\ 1.6 \\ 1.9 \\ 2.0 \\ 2.1$	$1.7 \\ 1.6 \\ 1.7 \\ 1.8 \\ 2.1 \\ 2.2 \\ 2.4$	$ \begin{array}{c} 1.3\\ 1.2\\ 1.2\\ 1.3\\ 1.5\\ 1.6\\ 1.7 \end{array} $	$1.4 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.6 \\ 1.8 \\ 1.9$
Fuels	1913 1923 1924 1925 1926 1927 1928	$14.5 \\ 12.1 \\ 15.5 \\ 14.3 \\ 16.5 \\ 15.8 \\ 15.0$	$9.6 \\ 8.0 \\ 10.5 \\ 9.6 \\ 11.0 \\ 10.8 \\ 10.2$	$ \begin{array}{c} 11.6\\ 9.4\\ 12.0\\ 10.5\\ 11.9\\ 12.2\\ 12.1 \end{array} $	$7.4 \\ 6.1 \\ 7.8 \\ 6.9 \\ 7.8 \\ 8.2 \\ 8.0$	$\begin{array}{c} 25.2 \\ 24.7 \\ 23.9 \\ 21.5 \\ 16.5 \\ 21.5 \\ 20.8 \end{array}$	$17.1 \\ 16.7 \\ 16.2 \\ 14.4 \\ 10.8 \\ 14.4 \\ 14.0 \\ 14.0 \\ 14.0 \\ 14.0 \\ 14.0 \\ 14.0 \\ 14.0 \\ 14.0 \\ 10.0 \\ $	$19.7 \\ 19.0 \\ 20.0 \\ 18.0 \\ 16.5 \\ 18.7 \\ 17.9$	$13.2 \\ 12.7 \\ 13.5 \\ 12.0 \\ 10.9 \\ 12.7 \\ 12.1$	$16.8 \\ 16.2 \\ 17.1 \\ 14.9 \\ 13.6 \\ 15.9 \\ 15.4$	$ \begin{array}{r} 10.9 \\ 10.6 \\ 11.3 \\ 9.8 \\ 8.8 \\ 10.6 \\ 10.3 \\ \end{array} $
Metals	1913 1923 1924 1925 1926 1927 1928	9.1 6.4 7.8 8.2 8.8 10.3 9.2	$9.3 \\ 6.5 \\ 8.0 \\ 8.4 \\ 9.0 \\ 10.7 \\ 9.6$	$\begin{array}{c} 7.3 \\ 4.5 \\ 5.5 \\ 5.8 \\ 6.1 \\ 7.5 \\ 7.1 \end{array}$	$7.2 \\ 4.5 \\ 5.5 \\ 5.7 \\ 6.1 \\ 7.6 \\ 7.2$	$\begin{array}{c} 13.9\\12.3\\13.8\\13.6\\14.5\\14.7\\15.8\end{array}$	$14.8 \\ 12.9 \\ 14.5 \\ 14.2 \\ 14.7 \\ 15.2 \\ 16.4$	$ \begin{array}{c} 11.5 \\ 9.6 \\ 11.0 \\ 11.0 \\ 11.6 \\ 12.5 \\ 12.4 \end{array} $	$11.9 \\ 9.9 \\ 11.4 \\ 11.3 \\ 11.8 \\ 13.0 \\ 12.9$	$\begin{array}{c} 9.8 \\ 7.9 \\ 9.1 \\ 8.9 \\ 9.2 \\ 10.4 \\ 10.4 \end{array}$	$\begin{array}{c} 9.9 \\ 8.0 \\ 9.3 \\ 9.0 \\ 9.2 \\ 10.5 \\ 10.6 \end{array}$
Chemicals (fertilisers)	1913 1923 1924 1925 1926 1927 1928	$1.5 \\ 1.8 \\ 2.0 \\ 2.3 \\ 2.4 \\ 2.5 \\ 2.4$	$1.7 \\ 2.0 \\ 2.3 \\ 2.5 \\ 2.7 \\ 2.9 \\ 2.7$	$ \begin{array}{c} 1.0\\ 1.2\\ 1.4\\ 1.4\\ 1.5\\ 1.6\\ 1.6\\ \end{array} $	$1.1 \\ 1.3 \\ 1.4 \\ 1.6 \\ 1.6 \\ 1.7 \\ 1.7$	$2.1 \\ 2.4 \\ 2.5 \\ 2.6 \\ 3.0 \\ 2.7 \\ 2.9$	2.4 2.7 2.8 2.9 3.2 2.9 3.1 3.1	$1.8 \\ 2.2 \\ 2.3 \\ 2.4 \\ 2.7 \\ 2.6 \\ 2.6 \\ 2.6$	$2.0 \\ 2.4 \\ 2.6 \\ 2.7 \\ 2.9 \\ 2.9 \\ 2.9 \\ 2.9$	$ \begin{array}{c} 1.4\\ 1.8\\ 1.9\\ 1.9\\ 2.0\\ 2.0\\ 2.1 \end{array} $	$ \begin{array}{c} 1.6\\ 1.9\\ 2.0\\ 2.2\\ 2.2\\ 2.2\\ 2.2\\ 2.2 \end{array} $
Total Production	1913- 1928	100	100	100	100	100	100	100	100	100	100
Foodstuffs	1913 1923 1924 1925 1926 1927 1928	$\begin{array}{c} 68.5 \\ 72.7 \\ 67.2 \\ 68.4 \\ 64.9 \\ 63.9 \\ 65.9 \end{array}$	$71.9 \\75.4 \\70.3 \\71.5 \\68.9 \\67.1 \\68.9$	$\begin{array}{c} 72.3 \\ 77.6 \\ 73.2 \\ 74.5 \\ 72.8 \\ 70.8 \\ 71.3 \end{array}$	$\begin{array}{c} 74.7\\79.4\\75.7\\76.5\\75.4\\73.2\\73.6\end{array}$	$\begin{array}{r} 49.7 \\ 49.8 \\ 47.9 \\ 50.5 \\ 52.5 \\ 46.5 \\ 47.2 \end{array}$	$54.5 \\ 54.4 \\ 52.2 \\ 54.4 \\ 55.6 \\ 49.6 \\ 50.7$	$59.3 \\ 60.2 \\ 56.9 \\ 59.2 \\ 58.8 \\ 55.0 \\ 56.7$	$\begin{array}{c} 63.6\\ 64.3\\ 60.7\\ 62.9\\ 62.4\\ 58.1\\ 60.0 \end{array}$	$\begin{array}{c} 63.7 \\ 65.3 \\ 62.2 \\ 64.9 \\ 65.3 \\ 61.1 \\ 62.1 \end{array}$	$\begin{array}{c} 67.4 \\ 68.9 \\ 65.9 \\ 68.1 \\ 68.3 \\ 64.1 \\ 65.0 \end{array}$
Raw Materials	1913 1923 1924 1925 1926 1927 1928	$\begin{array}{c} 31.5\\ 27.3\\ 32.8\\ 31.6\\ 35.1\\ 36.1\\ 34.1 \end{array}$	$\begin{array}{c} 28.1 \\ 24.6 \\ 29.7 \\ 28.5 \\ 31.1 \\ 32.9 \\ 31.1 \end{array}$	$\begin{array}{c} 27.7 \\ 22.4 \\ 26.8 \\ 25.5 \\ 27.2 \\ 29.2 \\ 28.7 \end{array}$	$\begin{array}{c} 25.3\\ 20.6\\ 24.3\\ 23.5\\ 24.6\\ 26.8\\ 26.4\end{array}$	$50.3 \\ 50.2 \\ 52.1 \\ 49.5 \\ 47.5 \\ 53.5 \\ 52.8$	$\begin{array}{c} 45.5 \\ 45.6 \\ 47.8 \\ 45.6 \\ 44.4 \\ 50.4 \\ 49.3 \end{array}$	$\begin{array}{c} 40.7\\ 39.8\\ 43.1\\ 40.8\\ 41.2\\ 45.0\\ 43.3\end{array}$	$\begin{array}{r} 36.4\\ 35.7\\ 39.3\\ 37.1\\ 37.6\\ 41.9\\ 40.0 \end{array}$	$\begin{array}{c} 36.3\\ 34.7\\ 37.8\\ 35.1\\ 34.7\\ 38.9\\ 37.9\\ \end{array}$	$\begin{array}{c} 32.6\\ 31.1\\ 34.1\\ 31.9\\ 31.7\\ 35.9\\ 35.0\\ \end{array}$

Annex V (concluded).

MATERIALS, BY GROUPS OF PRODUCTS. WEIGHTED BY : (a) 1926 VALUES; (b) 1928 VALUES. Total of Each Continent = 100.

No: Ame	rth erica	Carib	bean	Sou Ame	th rica	Afri	ca	As	ia	Oceania		World	
(<i>a</i>)	(b)	(a)	(b)	(a)	(b)	(<i>a</i>)	(b)	(a)	(b)	(a)	(b)	(a)	(b)
$ \begin{array}{c} 1.1\\ 1.5\\ 1.6\\ 1.6\\ 1.7\\ 1.8\\ 1.8\\ 1.8 \end{array} $	$1.0 \\ 1.4 \\ 1.4 \\ 1.4 \\ 1.6 \\ 1.6 \\ 1.6 \\ 1.6$	$\begin{array}{c} 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \end{array}$	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.1 \\ (0.03) \\ (0.04) \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$(0.04) \\ (0.03) \\ (0.03) \\ (0.04) \\ ($			$(0.03) \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2$	$(0.02) \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2$			$0.8 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.1 \\ 1.1 \\ 1.1 \\ 1.1$	$\begin{array}{c} 0.7 \\ 0.8 \\ 0.9 \\ 0.9 \\ 1.0 \\ 1.0 \\ 1.0 \end{array}$
$ \begin{array}{r} 1.5 \\ 1.7 \\ 1.9 \\ 2.0 \\ 1.9 \\ 2.1 \\ 2.0 \\ \end{array} $	$1.6 \\ 1.8 \\ 2.1 \\ 2.2 \\ 2.1 \\ 2.3 \\ 2.2$							$\begin{array}{c} 0.2 \\ 0.3 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.4 \\ 0.5 \end{array}$	$\begin{array}{c} 0.1 \\ 0.3 \\ 0.3 \\ 0.4 \\ 0.4 \\ 0.5 \end{array}$	$\begin{array}{c} 0.2 \\ 0.4 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.8 \\ 0.6 \end{array}$	$\begin{array}{c} 0.2 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.8 \\ 0.6 \end{array}$	$1.0 \\ 1.0 \\ 1.1 \\ 1.1 \\ 1.2 \\ 1.3 \\ 1.4$	$1.0 \\ 1.1 \\ 1.2 \\ 1.2 \\ 1.3 \\ 1.4 \\ 1.5$
$\begin{array}{c} 24.7 \\ 26.9 \\ 25.9 \\ 25.4 \\ 26.5 \\ 26.6 \\ 24.6 \end{array}$	$15.8 \\ 18.1 \\ 17.5 \\ 16.9 \\ 17.8 \\ 18.0 \\ 16.6$	$\begin{array}{c} 6.9\\ 23.1\\ 20.0\\ 17.7\\ 14.8\\ 11.4\\ 8.9 \end{array}$	$\begin{array}{r} 4.6 \\ 16.8 \\ 14.3 \\ 12.7 \\ 10.5 \\ 8.0 \\ 6.2 \end{array}$	$\begin{array}{c} 0.5 \\ 1.1 \\ 1.9 \\ 2.5 \\ 4.1 \\ 5.4 \\ 7.6 \end{array}$	$\begin{array}{c} 0.3 \\ 0.7 \\ 1.2 \\ 1.6 \\ 2.7 \\ 3.6 \\ 5.2 \end{array}$	$\begin{array}{r} 4.0 \\ 4.7 \\ 4.6 \\ 4.5 \\ 4.8 \\ 4.5 \\ 4.2 \end{array}$	$2.2 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.7 \\ 2.5 \\ 2.3$	$3.5 \\ 5.1 \\ 5.1 \\ 5.2 \\ 5.1 \\ 5.1 \\ 4.9$	$2.1 \\ 3.1 \\ 3.1 \\ 3.3 \\ 3.3 \\ 3.2 \\ 3.1$	$\begin{array}{c} 8.3 \\ 7.5 \\ 7.6 \\ 7.9 \\ 7.0 \\ 7.2 \\ 6.1 \end{array}$	$\begin{array}{r} 4.8 \\ 4.4 \\ 4.5 \\ 4.6 \\ 4.1 \\ 4.2 \\ 3.6 \end{array}$	$14.9 \\ 16.3 \\ 16.0 \\ 15.0 \\ 15.0 \\ 15.7 \\ 15.0 \\ $	$9.4 \\10.6 \\10.3 \\9.7 \\9.7 \\10.3 \\9.8$
$\begin{array}{c ccccc} 12.8 \\ 13.7 \\ 13.0 \\ 14.3 \\ 14.5 \\ 14.0 \\ 15.0 \end{array}$	$12.7 \\ 13.9 \\ 13.2 \\ 14.3 \\ 14.7 \\ 14.2 \\ 15.1$	$ \begin{array}{c} 8.8 \\ 7.9 \\ 6.8 \\ 7.9 \\ 9.2 \\ 10.2 \\ 10.0 \end{array} $	$\begin{array}{c} 8.2 \\ 7.6 \\ 6.5 \\ 7.6 \\ 8.7 \\ 9.5 \\ 9.3 \end{array}$	$1.0 \\ 2.8 \\ 2.9 \\ 2.8 \\ 2.9 \\ 2.8 \\ 3.3 $	$ \begin{array}{c} 1.1\\ 2.8\\ 2.9\\ 2.8\\ 3.0\\ 2.9\\ 3.4 \end{array} $	$\begin{array}{c} 0.3 \\ 1.8 \\ 2.2 \\ 2.1 \\ 1.9 \\ 2.1 \\ 2.5 \end{array}$	$\begin{array}{c} 0.3 \\ 1.7 \\ 2.1 \\ 2.0 \\ 1.9 \\ 2.0 \\ 2.4 \end{array}$	$1.8 \\ 2.1 \\ 2.2 \\ 2.2 \\ 2.3 \\ 2.4 \\ 2.5$	$1.5 \\ 1.8 \\ 1.9 \\ 1.9 \\ 2.0 \\ 2.1 \\ 2.2$	$\begin{array}{c} 6.3 \\ 5.7 \\ 5.8 \\ 6.4 \\ 5.9 \\ 6.3 \\ 6.1 \end{array}$	5.4 4.9 5.5 5.0 5.2 5.2	$\begin{array}{c} 8.4 \\ 8.1 \\ 8.2 \\ 8.6 \\ 8.8 \\ 9.0 \\ 9.4 \end{array}$	$\begin{array}{c} 8.1 \\ 8.0 \\ 8.0 \\ 8.4 \\ 8.6 \\ 8.9 \\ 9.3 \end{array}$
$\begin{array}{c c} 0.6 \\ 0.8 \\ 0.7 \\ 0.8 \\ 0.8 \\ 0.8 \\ 0.9 \end{array}$	$\begin{array}{c} 0.6\\ 0.8\\ 0.7\\ 0.8\\ 0.8\\ 0.9\\ 1.0\\ \end{array}$	$ \begin{array}{c c} (0.01) \\ (0.02) \\ (0.02) \\ (0.02) \\ (0.03) \\ (0.03) \\ (0.03) \end{array} $	$\begin{array}{c} (0.01) \\ (0.02) \\ (0.02) \\ (0.02) \\ (0.03) \\ (0.03) \\ (0.03) \end{array}$	$5.6 \\ 3.1 \\ 4.2 \\ 4.1 \\ 3.2 \\ 2.2 \\ 4.1$	$5.0 \\ 2.7 \\ 3.7 \\ 3.5 \\ 2.8 \\ 2.0 \\ 3.7$	$\begin{array}{c} 0.9 \\ 0.8 \\ 1.0 \\ 1.0 \\ 1.1 \\ 1.2 \\ 1.1 \end{array}$	$\begin{array}{c} 0.8 \\ 0.8 \\ 1.0 \\ 0.9 \\ 1.0 \\ 1.2 \\ 1.0 \end{array}$	$\begin{array}{c} 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.3 \\ 0.3 \end{array}$	$\begin{array}{c} 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.3 \end{array}$	$1.1 \\ 0.9 \\ 1.0 \\ 1.5 \\ 1.2 \\ 1.3 \\ 1.2$	$1.0 \\ 0.9 \\ 1.0 \\ 1.4 \\ 1.2 \\ 1.2 \\ 1.1$	$1.1 \\ 1.1 \\ 1.2 \\ 1.3 \\ 1.3 \\ 1.3 \\ 1.4$	$1.1 \\ 1.1 \\ 1.2 \\ 1.3 \\ 1.3 \\ 1.3 \\ 1.5$
100	100	100	100	100	100	100	100	100	100	100	100	100	100
$\begin{array}{r} 46.9 \\ 46.7 \\ 45.4 \\ 43.5 \\ 41.6 \\ 44.2 \\ 44.6 \end{array}$	$53.8 \\ 53.7 \\ 51.5 \\ 50.0 \\ 47.6 \\ 50.6 \\ 50.4$	$\begin{array}{c} 65.5 \\ 56.6 \\ 62.3 \\ 61.8 \\ 62.3 \\ 63.1 \\ 66.1 \end{array}$	$\begin{array}{c} 68.8 \\ 62.4 \\ 67.4 \\ 66.7 \\ 66.7 \\ 67.1 \\ 69.5 \end{array}$	$\begin{array}{c} 61.5 \\ 61.5 \\ 60.0 \\ 60.1 \\ 60.1 \\ 53.4 \\ 53.7 \end{array}$	$\begin{array}{c} 63.5\\ 63.7\\ 62.3\\ 62.9\\ 62.8\\ 56.7\\ 56.7\end{array}$	$58.1 \\ 54.5 \\ 52.4 \\ 50.6 \\ 49.4 \\ 53.2 \\ 50.8 $	$\begin{array}{c} 60.0 \\ 56.6 \\ 54.8 \\ 52.3 \\ 51.6 \\ 55.5 \\ 52.6 \end{array}$	$\begin{array}{c} 68.1 \\ 63.6 \\ 62.6 \\ 60.0 \\ 59.0 \\ 58.1 \\ 58.2 \end{array}$	$\begin{array}{c} 70.6 \\ 66.8 \\ 65.8 \\ 64.1 \\ 63.8 \\ 62.6 \\ 62.7 \end{array}$	$\begin{array}{r} 47.4 \\ 49.3 \\ 54.0 \\ 48.1 \\ 49.2 \\ 46.9 \\ 50.9 \end{array}$	$\begin{array}{r} 46.6 \\ 48.0 \\ 53.2 \\ 47.3 \\ 47.5 \\ 45.7 \\ 49.2 \end{array}$	59.5 57.8 56.7 56.6 55.5 54.7 55.2	$\begin{array}{c} 63.7 \\ 62.3 \\ 60.8 \\ 60.7 \\ 59.8 \\ 58.9 \\ 59.1 \end{array}$
$53.1 \\ 53.3 \\ 54.6 \\ 56.5 \\ 58.4 \\ 55.8 \\ 55.4$	$\begin{array}{r} 46.2 \\ 46.3 \\ 48.5 \\ 50.0 \\ 52.4 \\ 49.4 \\ 49.6 \end{array}$	$\begin{array}{c} 34.5 \\ 43.4 \\ 37.7 \\ 38.2 \\ 37.7 \\ 36.9 \\ 33.9 \end{array}$	$\begin{array}{c} 31.2 \\ 37.6 \\ 32.6 \\ 33.3 \\ 33.3 \\ 32.9 \\ 30.5 \end{array}$	$\begin{array}{c} 38.5 \\ 38.5 \\ 40.0 \\ 39.9 \\ 39.9 \\ 46.6 \\ 46.3 \end{array}$	36.5 36.3 37.7 37.1 37.2 43.3 43.3	$\begin{array}{c} 41.9\\ 45.5\\ 47.6\\ 49.4\\ 50.6\\ 46.8\\ 49.2 \end{array}$	$\begin{array}{r} 40.0\\ 43.4\\ 45.2\\ 47.7\\ 48.4\\ 44.5\\ 47.4\end{array}$	$\begin{array}{c} 31.9\\ 36.4\\ 37.4\\ 40.0\\ 41.0\\ 41.9\\ 41.8\end{array}$	$\begin{array}{c} 29.4 \\ 33.2 \\ 34.2 \\ 35.9 \\ 36.2 \\ 37.4 \\ 37.3 \end{array}$	52.6 50.7 46.0 51.9 50.8 53.1 49.1	$53.4 \\ 52.0 \\ 46.8 \\ 52.7 \\ 52.5 \\ 54.3 \\ 50.8$	$\begin{array}{c} 40.5 \\ 42.2 \\ 43.3 \\ 43.4 \\ 44.5 \\ 45.3 \\ 44.8 \end{array}$	$\begin{array}{r} 36.3\\ 37.7\\ 39.2\\ 39.3\\ 40.2\\ 41.1\\ 40.9 \end{array}$

Annex VI.

NATIONAL INDICES OF INDUSTRIAL PRODUCTION.

1926 = 100.

Country	Canada (a)	United States (a)	Germany	France (b)	Poland (c)	United	Kingdom	Sweden	Switzer- land	U.S.S.R.
Source	Monthly Review of Busi- ness Statistics	Federal Reserve Board	Institut für Kon- junktur- forschung	Statis- tique générale	Institut de Re- cherches sur le mouve- ment des affaires	Board of Trade (d)	London and Cam- bridge Economic Service	Svensk Finans- tidning	Rapports économi- ques et stat. so- ciales	Institut de Conjonc- ture
Original base	1919–24	1923–25	1928	1913	1925-27	1924	1924	1923-24	_	1923-24
1925(average) 1926 ,, 1927 ,, 1928 ,, 1929 ,,	86 100 107 118 132	96 100 98 103 109	$105 \\ 100 \\ 127 \\ 127 \\ 129$	86 100 87 101 111	$102 \\ 100 \\ 125 \\ 141 \\ 140$	(107) (106) (112)	129 100 140 136 147	$97 \\ 100 \\ 106 \\ 101 \\ 124$	106 100 118 123 117	$\begin{array}{cccc} (e) & 71 \\ (e) & 100 \\ (e) & 122 \\ (e) & 147 \\ (f) & 170 \end{array}$
1925 I II III	80 81 79	98 97 97	103 108 109	87 83 83	$106 \\ 99 \\ 104 \\ 105$	}	136	$ \begin{array}{c} 104 \\ 103 \\ 83 \\ 100 \end{array} $	110	
VII VII	80 86 82 86	95 95 94 96 05	$ \begin{array}{c c} 110 \\ 110 \\ 108 \\ 106 \\ 102 \end{array} $	82 82 81 83 82	103 107 108 102 100 100 100 100 100 100 100 100 100 100 100 100 100 100	-	130	92 99 97	106	
X X X X X	85 95 102 93	95 94 97 99 101	$ \begin{array}{r} 103 \\ 105 \\ 102 \\ 103 \\ 96 \end{array} $	83 84 88 88 88 89	$ \begin{array}{r} 100 \\ 101 \\ 100 \\ 98 \\ 92 \end{array} $	}	132	$ \begin{array}{c} 94 \\ 100 \\ 93 \\ 91 \\ 94 \\ \end{array} $	104	84 89 83 89
1926 I II III	95 99 95	99 99 100	91 91 92	89 88 94	81 82 85	}	136	$ \begin{array}{c} 96 \\ 94 \\ 105 \\ 107 \end{array} $	98	88 93 98
V V VI VII	102 103 105 101	99 100 100	92 95 97 96	96 100 111	89 96 100		96	94 109 98	96	88 97 87
VIII IX X	96 97 109	$ \begin{array}{r} 103 \\ 104 \\ 103 \\ 100 \end{array} $	101 105 109	$ \begin{array}{r} 102 \\ 102 \\ 103 \\ 100 \end{array} $	$ \begin{array}{r} 107 \\ 113 \\ 117 \\ 122 \end{array} $		76	94 102 94	99	97 109 110
XII	91	98	114 115	96	125	<	95	103	\$ 107	113
1927 I II III IV	$ 103 \\ 101 \\ 118 \\ 108 $	$ \begin{array}{r} 99 \\ 101 \\ 104 \\ 101 \end{array} $	$ \begin{array}{r} 116 \\ 116 \\ 122 \\ 125 \end{array} $	90 90 86 83	$ \begin{array}{r} 115 \\ 117 \\ 114 \\ (c) 119 \end{array} $		147	$ \begin{array}{c} 101 \\ 100 \\ 115 \\ 110 \end{array} $	111	$ \begin{array}{r} 110 \\ 115 \\ 122 \\ 114 \end{array} $
V VI VII	$112 \\ 111 \\ 104 \\ 100$	103 101 98	130 129 128	86 86 83	122 122 126	107		105 99 96	116	$116 \\ 108 \\ 94 \\ 112$
VIII IX X	$108 \\ 101 \\ 104 \\ 102$	99 97 95 02	$130 \\ 132 \\ 132 \\ 132 \\ 134$	85 86 87	125 128 129 131		141	99 107 101		$113 \\ 127 \\ 132 \\ 120$
XII	103	93	127	91	132		041	110	120	138

(a) Adjusted for seasonal variations.
(b) Partly adjusted for seasonal variations.
(c) Adjusted for seasonal variations since April 1927.
(d) Original base has not been changed, as figures for 1926 are not available.
(e) Year ending September 30th.
(f) Average for the period from October, 1928, to August, 1929.

Annex VI (concluded).

NATIONAL INDICES OF INDUSTRIAL PRODUCTION.

1926 = 100.

Co	untry	Canada (a)	United States (a)	Germany	France (b)	Poland (c)	United Kingdom		Sweden	Switzer- land	U.S.S.R.
So	urce	Monthly Review of Busi- ness Statistics	Federal Reserve Board	Institut für Kon- junktur- forschung	Statis- tique générale	Institut de Re- cherches sur le mouve- ment des affaires	Board of Trade (d)	London and Cam- bridge Economic Service	Svensk Finans- tidning	Rapports économi- ques et stat. so- ciales	Institut de Conjonc- ture
Origin	al base	1919–24	1923-25	1928	1913	1925-27	1924	1924	1923–24		1923–24
1928	I II III	$110 \\ 114 \\ 115 \\ 110$	97 101 101	125 129 133	93 94 97	$134 \\ 138 \\ 139 \\ 120$	(109)	140	$76\\64\\69\\06$	124	$141 \\ 138 \\ 149 \\ 199$
	$\begin{array}{c} \mathrm{I}\mathrm{V}\ldots\\ \mathrm{V}\ldots\\ \mathrm{VI}\ldots\end{array}$	110 129 121	101 101 101	133 130 130	98 101 102	$138 \\ 137 \\ 140$	(104)	138	96 107 112	126	128 139 133
	VII VIII IX	$ 118 \\ 124 \\ 118 $	$\begin{array}{c}102\\104\\106\end{array}$	$132 \\ 129 \\ 129$	$\begin{array}{c}103\\103\\102\end{array}$	$\begin{array}{c}139\\142\\142\end{array}$	(100)	127	96 103 109	123	$\begin{array}{c}124\\144\\150\end{array}$
	X XI XII	128 120 113	$106 \\ 104 \\ 105$	124 107 116	$104 \\ 105 \\ 106$	142 147 148	(108)	140	$115 \\ 122 \\ 117$	121	$159 \\ 149 \\ 158$
1929	I II III	143 139 137	108 108 110	$121 \\ 115 \\ 125 \\ 127$	109 108 110	149 138 142	(110)	144	$136 \\ 123 \\ 124 \\ 134$	114	$ \begin{array}{c} 161 \\ 154 \\ 165 \\ 172 \end{array} $
	V	$135 \\ 137 \\ 130$	113 114 117	137 138 139	110 110 112	$140 \\ 141 \\ 139$	(112)	147	119 119 118	119	145 145 160
	VII VIII IX	132 133 120	115 114 112	133 131 129	110 110 110	$ \begin{array}{c} 137 \\ 138 \\ 140 \\ 141 \end{array} $	(111)	144	118 122 120 122	120	$\begin{array}{c}158\\168\\\ldots\end{array}$
	$\begin{array}{c} \mathbf{X} \ \dots \ \mathbf{XI} \ \dots \ \mathbf{XII} \ $	$135 \\ 134 \\ 110$	108 98 92	128 127 121	112 113 114	$ 141 \\ 137 \\ 136 $	(114)	153	123 126 119	111	

(a) Adjusted for seasonal variations.
(b) Partly adjusted for seasonal variations.
(c) Adjusted for seasonal variations since April 1927.
(d) Original base has not been changed, as figures for 1926 are not available.



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