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THE REVISION OF THE PRICE INDEX NUMBERS

groundilled J By T. Sheng

Part I. The Index Numbers of Wholesale Prices in Shanghai

Part II. The Index Numbers of Import and Export
Prices in Shanghai
(With Appendices)

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編主俊盛

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錄附

月六年十二國民

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FOREWORD

The course of economic development, maintains Hildebrand, may be exemplified by the steps of evolution in the mechanism of exchange. First comes the barter stage; then the use of money as a medium of exchange; then the period of extensive use of credit which we witness today among the most highly industrialized countries of the world. While it remains to be proved that the present economic world has completely deprived itself of the color of barter system, the absolute pre-dominance of monetary and credit system in the existing economic régime is, indeed, undeniable. Modern economic life, therefore, resolves itself largely into a matter of prices.

Fluctuations in prices are subject to two sets of influences: Changes on the side of commodities affect prices relatively to one another, and those on the side of money affect the general price level. A rise in the general price level means a fall in the purchasing power of money. Conversely, a fall in the general price level is the same as a rise in the purchasing power of money. The essential purpose in the construction of index numbers is to show the relative changes in the value of money in terms of a general aggregation of commodities.

Index numbers were first conceived in the middle of the eighteenth century. It is only during the last thirty years, however, that they begin to receive public interest and recognition. This new development is of course partly due to the advance made in statistical methods within the last few decades, but mostly due to the recognition of the growing importance in the use of index numbers as a result of present-day violent changes in prices with their far-reaching consequences upon our economic system. That this is so may be clearly seen from the fact that many publications on the technique and science of the making of index numbers appear usually after the discovery of gold mines, the issue of inconvertible paper currency, or the breaking out of wars.



The price index numbers compiled by this Commission are the continuation of those originally undertaken by the former

Bureau of Markets of the Ministry of Finance. One is the wholesale price index number dated from September, 1919 and the other is the export and import price index numbers started with May, 1925. Both adopted February, 1913 as the base. While the period since the publication of these index numbers cannot be regarded as long, it has been a period of extreme fluctuations in prices, largely due to the rapid change in the relative value of gold and silver. The ratio of gold to silver was 1 to 34.19 in 1913 and advanced to 1 to 11.10 in February. 1920. But with the rapid fall in the price of silver the ratio dropped to 1 to 25.60 in 1921, then 1 to 29.38 in 1925, and finally 1 to 78.58 in February, 1931. Such rapid changes in the price of silver have never been precedented. China, being now the only important country remaining on a silver basis, has been seriously affected by this violent fluctuation in the form of rapidly advancing prices.

Thus the need for studying index numbers has been gradually realized in this country. Following the publication of our price index numbers, the Bureau of Reconstruction of Kwangtung Province has compiled an index number of wholesale prices in Canton and the Committee on Social and Economic Research of Nankai University, Tientsin, publishes a similar one for North China. The same endeavour has been undertaken by the Ministry of Industries in Nanking. Hankow and Tsingtao. Aside from these, there are also several indexes on retail prices and on the cost of living. In view of the difference in the choice of base periods, direct comparison between these index numbers is therefore well-nigh impossible. A revision of the index numbers of this Commission, with the primary object to replace the old base by a new, thus becomes imperative. This opportunity is also taken to effect the adoption of more suitable formulae, and certain improvements in the selection of commodities and the methods of classification.

Since the inception of these index numbers, assistance has been received from various eminent economists both in this country and abroad. To Professor Irving Fisher, of Yale University, Dr. L. Ho, Dr. D. K. Liu, Mr. C. Yang, and Dr. K. W. Shaw, a special debt of gratitude is due for their advice and criticism. My appreciation is due also to Mr. T. K. Pan, and Dr. J. C. Chao for their valuable services and constructive suggestions. In connection with the actual work of this revision,

Mr. T. H. Sun is responsible for the investigation and compilation of the wholesale price index numbers in Shanghai and the translation of Part I of this report, and Messrs. T. W. Loh and P. K. Jui, the investigation and compilation of the export and import price index numbers and the translation of Part II of this report.

T. SHENG

Chief of Statistical Division.

National Tariff Commission Customs Building, Shanghai June, 1931.

Part I

The Index Numbers of Wholesale

Prices in Shanghai

I. Base Period

The purpose of the price index numbers is to measure the relative changes in the general price level. It is, therefore, necessary to select the prices of some definite period as the base with which to compare the price changes at different periods. The price quotations thus chosen are called the basic prices; and the period from which the basic prices are selected is termed the base period.

In the previous index numbers of wholesale prices in Shanghai, February, 1913 was adopted as the base period with the object of facilitating direct comparison with many index numbers on the 1913 base in foreign countries. Since its first appearance ten years ago, there have been considerable changes in the field of production and consumption, rendering the original base period too remote to afford accurate comparison with the present-day conditions. An added drawback lies in that, owing also to the difficulty in collecting the back quotations in constructing the previous index numbers, we were obliged to take the prices of one single month as the basic figures. It is obviously necessary, therefore, to change the base to a more recent period in order to be of more practical value and to adopt yearly average quotations as the basic prices in order to mitigate the undue influence of seasonal factors contingent to a short period.

Although 1913 is still used as the base period of many index numbers in foreign countries, the well-known index compiled by the U. S. Bureau of Labor Statistics has in September, 1927 changed its base to 1926. Following this example are the index numbers compiled by Professor Irving Fisher, by the Dominion Bureau of Statistics of Canada, and by the Department of Statistics of Finland. In this country, the 1926 base have been used in the index number of commodity prices at wholesale in

North China compiled by the Committee on Social and Economic Research of Nankai University, Tientsin, and the index number of the cost of living in Shanghai compiled by this Commission. To facilitate comparison, the revised index number of wholesale prices in Shanghai also adopts 1926 as its base and takes the yearly average of prices in 1926 as the basic prices. Just as 1913 is adopted for purpose of comparing the price changes subsequent to the World War, so the year of 1926 which is one year prior to the establishment of the capital of the National Government at Nanking, marks the transition from the old régime to the new.

II. Classification and Commodities

Commodities are generally classified either according to their nature, uses, sources of production, or stage of manufacture to suit the purpose for which the index numbers are intended. The commodities contained in the making of the wholesale price index number in Shanghai are divided into eight groups, some according to their nature, such as Metals and Chemicals, and some according to their uses, such as Cereals, Other Food Products, Textiles, Fuel and Building Materials. Except for some minor changes this classification has been retained in the present revision. However, the original heading, Industrial Materials, has been replaced by Chemicals since the commodities listed therein are practically all chemicals. The four subheadings, Fuel, Building Materials, Industrial Materials, and Sundries originally included under Miscellaneous Goods now stand as four separate groups so as to avoid averaging of averages.1

Many alterations regarding to commodities included in the price table have become necessary in view of the changes in the local consumption habits and production and trade conditions. The revised table consists of 119 commodities and 155 quotations, an increase of 8 quotations over the original 147. Expressed in percentages, Cereals occupy 14.2%, Other Food Products and Provisions 20%, Textile Fibres and Manufactures thereof 24.5%, Metals 7.7%, Fuel and Lighting 8.4%, Building Materials 7.1%, Chemicals and Preparations thereof 6.5% and Miscellaneous Goods 11.6%. Should the quotations be classified

Franklin L. Ho: "Prices and Price Indexes in China," Chinese Economic Journal, Vol. 1, No. 5, May, 1927, pp. 429-463.

Groups	npe .	8 	homm	Commodities and Quotations	Quota	tions		Quotati	Quotations in New Index	the	A Sign	tage of 1	the North	Quotations in the New Index Classified according to the Stage of Manufacture	New	ording to	Quotations in the New Index Classified according to their Sources
			New Index	ex.	Old	Old Index	n)	ia Jex	Street St			,8	a,			,	
New Index	Old Index	No. of Com- dities	No. of Quo- tations	Percon- tage	No. of Ono- tations	Percet-	sandT hanol cals an biO said	arodT bruciton mI biO edi	ila sendT d ni bnuct zebril biO refilb diw refilb diw	Total	Haterlal	reanborq ebocd	TempacoO Boods	Total	Bomesta Boods	estroqmI ebceĐ	Total
I. Ocreals	I, Coreals	۵.	22	14.2%	И	9.5%	==	_=	1	22	- 0	ı	81	22	11	10	ន
II. Other Bond Freducts & Provisions	II, Other Bood Products	27	31	20.0%	26	17.7%	41	_ =	တ	8	4		27	31	50	=======================================	E
III. Toxtlle Flbres and Manuface	III. Textiles																
thereof		8	88	24.5%	27	18.8%	14	81	9	88	æ	2	81	38	83	12	38
IV. Metals	IV. Metala	22	2	7.7%	Ħ	7,5%	10	10,	61	12	7	-		22	61	2	es es
V. Fuel and	V. Miscel-														_		
d right dir.	Fuels	0	13	8.4%	27	8.2%	₩.	\$3	9	13	5	61	12	13	4	=	2
VI. Buliding Materials	Duliding Materials	Ħ	=	7.1%	14	9.5%	4	61	ęł	===	ñ	9	1	==	9	10	=
VII. Chemicals & Prepara-	Industrial Materials	ន	20	6.6%	12	14.8%	15	8	61	10		2	L	2	_		91
VIII. Miscolia- neous	Sundries	8	18	11.6%	윉	15.0%	13	4	н	18	9	9	9	18	=_	4	18
Total	tal	119	166	100.0%	147	100.0%	7.6	29	222	166	23	84	22	155	28	7.1	165
Percentage	ntage			-			40.0%	40.0%(36.8%	14.2%	14.2% 100.0%	27.1%	27.7%	45.2%	27.1% 27.7% 45.2% 100.0%	54.2%	45.8%	54.2% 45.8% 100.0%

3 ---

according to the stage of manufacture, the raw materials occupy 27.1%, producers' goods 27.7% and consumers' goods 45.2%. Again, should they be grouped according to the sources of production, then domestic products occupy 54.2% while imported goods amount to 45.8%.

It has been our practice in the compilation of index numbers to use the wholesale prices ruling on the 15th of each month as the monthly quotations. The same method is still maintained under the revision. These price quotations are, as usual, obtained through special investigation undertaken by this Commission. The preceding table outlines the contents of the revised series as compared with the original.

III. Formula

The simple arithmetic average was formerly employed in computing the wholesale price index numbers in Shanghai. Under this method, the first process of computation is to express the prices of the given period as percentages of those of the base period: these percentages, known as price relatives, are then summed up and divided by the number of quotations to get the index number. Since no system of weighting based upon either production, consumption, or the trade volumes in apportioning relative importance to the various commodities has been used, this form of average is termed as simple or unweighted. Because of its simplicity and easy understanding this method is extensively used but its accuracy has been doubted by many statisticians. Hence, a more desirable one has to be sought. In measuring the general purchasing power of money, the weighted type is preferable whose computation, however, is not possible at present due to the lack of suitable materials in devising a proper system of weighting. We, therefore, have to be contented with the choice of the simple geometric average as the best for our purpose.

In computing index numbers by simple geometric average, the process for obtaining the price relatives is similar to that of simple arithmetic average, but the price relatives, instead of being added together and divided by the number of quotations, are multiplied together and the product is extracted to the nth root, n being the number of quotations contained in the index. The difference in the results thus obtained by the two methods, be it noted, is directly proportional to the difference in

the original figures. In case of small disparity between the original figures, the difference in the results arrived at by these two methods is negligible, for instance, the arithmetic average of 900 and 1,024 is 962, while their geometric average is 960 which is the square root of their product. But a great disparity obtains in case of figures having wide divergence such as 2 and 32, whose arithmetic average is 17 while their geometric average is only 8. In like manner, the results of index number obtained by the simple arithmetic and the simple geometric averages will not differ much when price changes are normal and moderate; but when prices show great upheaval and wide fluctuation. the index obtained by the simple arithmetic average, being subject to the influence of sharp-advancing prices, tends to be unduly high. The use of the simple geometric average is intended to overcome this drawback. For instance, commodity A advances in price tenfold, (from 100% to 1,000%) and commodity B drops in price to one tenth (from 100% to 10%). The proportional changes of these two commodities, being in opposite directions but to the same extent, remain the same, hence their geometric average is still 100(V_{1,000×10}=100), whereas the arithmetic average would show a result of 505 $(\frac{1,000+10}{2}_{-505})$

The purpose in choosing a base is usually to facilitate comparison between prices of some previous period as a standard with those of a subsequent period. Conversely, one can choose the latter period as the base and compare it with the previous one. In other words, the results should show the same relative proportion by the reversal of the base periods. Suppose the price index of 1930 on the 1926 base shows a 100 per cent increase, then the 1926 price index on the 1930 base ought to show a 50 per cent drop. Consequently the index number on the 1926 base should be the reciprocal of that calculated on the 1930 base, while the product of these two indexes based on two different periods should be unity. Any formula which can stand this test is said to conform with the "time reversal test." Unlike the simple geometric, the simple arithmetic average does not, however, meet this test as will be seen from the following.

If from 1926 to 1930 the price of flour increases from \$4 to \$6 per sack, and the price of egg advances from 2 cents to 5 cents per piece, then the index on the 1926 base by the simple

^{2.} Irving Fisher: The Making of Index Numbers, pp. 64-65.

arithmetic average is $200 \ \left(\frac{150+250}{2}\right)_{=200}$, that is to say, the index is 100 per cent higher in 1930 than in 1926. By this plain reasoning the index for 1926 would drop by 50 per cent, if the year 1930 is taken as the base. But such is not the case and the index shows an upward bias of $3\frac{1}{2}$ per cent $\left(\frac{66\frac{1}{2}+40}{2}\right)_{=5\frac{3}{2}}$. The product of the indexes with their bases reversed exceeds unity $\left(\frac{200}{100} > \frac{581}{100} > 1\right)$. This clearly demonstrates the unsuitability of the simple arithmetic with reference to the "time reversal test."

Let us now examine the result by the simple geometric average. If 1926 is taken as the base, the index for 1930 would be $V_{150} \times 250 = 193.63$ and if 1930 is taken as the base, then the index for 1926 would be $V_{663} \times 40 = 51.64$, which is also the reciprocal of the index on the 1926 base $\left(\frac{1}{193.65} \times 100 = 51.64 \times 6\right)$. Furthermore, when the two index numbers secured with the bases reversed are multiplied, their product is unity $\left(\frac{193.65}{100} \times \frac{51.64}{100} = 1\right)$. It can be seen that the simple geometric average does conform with the "time reversal test."

Some other points, of course, might be cited as the merits of the simple geometric average. But its labor of computation and unfamiliarity to the public has detracted it from wide use. As we are not confined to the study of averages, the above description goes far enough for the present purpose.³

Let the prices of the base period be represented by Po', Po", Po", Po" and those of any given period, by P_1 ', P_1 ", P_1 ", P_1 ", the formulae adopted by the old and revised series are shown as follows:

 The simple arithmetic method which was adopted by the old series.⁴

$$I = \frac{\frac{P_{1}'}{P_{0}'} + \frac{P_{1}''}{P_{0}''} + \frac{P_{1}'''}{P_{0}'''} + \dots + \frac{P_{1}^{n}}{P_{0}^{n}}}{N} = \frac{\sum \frac{P_{1}}{P_{0}}}{N}$$

Irving Fisher: The Making of Index Numbers, pp. 33-35, 62-72, 206-212.

Formula 1, in Fisher's: The Making of Index Numbers, Appendix V, p. 466.

2. The simple geometric method which is adopted by the revised series. 5

$$I = \sqrt[n]{\frac{P_1}{P_0} \times \frac{P_1}{P_0} \times \frac{P_1}{P_0} \times \frac{P_1}{P_0} \times \cdots \cdot \frac{P_1}{P_0}}$$

5. Formula 21 in Fisher's "The Making of Index Numbers," Appendix V, p. 468. In utilizing the logarithms to compute the index, the formula becomes:

$$\text{I=Anti-log} \ \left(\underbrace{\frac{\text{Log} \frac{P_{1}^{\prime}}{P_{o}^{\prime}} + \text{Log} \frac{P_{1}^{\prime \prime}}{P_{o}^{\prime \prime}} + \text{Log} \frac{P_{1}^{\prime \prime \prime}}{P_{o}^{\prime \prime}} + \dots \dots \text{Log} \frac{P_{1}^{\prime \prime \prime}}{P_{o}^{\prime \prime}}}_{N} \right)$$

Part II.

The Index Numbers of Import and Export Prices in Shanghai

L Base Period

The index numbers of import and export prices in Shanghai were first compiled in May, 1925. Similar to our index number of wholesale prices, February, 1913 was taken as the base period, but instead of the fixed base system, the chain system was adopted. In a fixed base, the prices of the base period are set down as 100. Those of all other periods, antecedent or subsequent thereto, are expressed in precentages to the prices of the base period. These percentages are then summed up and divided by the number of commodities to get the final index number. In the chain system, the prices of a given period are expressed in percentages of those of the one immediately preceding, and the prices of base period are directly taken as 100 only in calculating the index for the first period. To compute the index numbers for the second, third period, etc., the prices of the first, second period, etc., are taken as 100 respectively. The index numbers for different periods thus obtained are called link index numbers. Like links they can be joined together to form a chain by successive multiplication. For instance, if it is desired to join the link index of the third period to the base. it can be done by multiplying it with the link indexes of the second and first period. The product is the so-called chain index number.

One of the chief merits of the chain system lies in the fact that the link index numbers enable us to make direct and accurate comparisons between two adjacent periods especially as price variations within a short time, month to month, or year to year, are more concentrated. This system, however, is not without its shortcomings. The link index numbers of different periods are accurate and reliable individually, but when they are joined to the base period, any errors which are inherent in the successive multiplication processes are likely to accumulate in the chain

index number. This accumulated error may be insignificant in the first few periods, but after one or two decades, the discrepancy between the chain index and the index directly computed from base period (i.e. the fixed-base index) might be quite considerable. Moreover, the chain index numbers usually rise more than the fixed-base index numbers when prices are rising and fall less when prices are falling. As the trend of prices is more likely to rise than to fall in a sufficiently long period, a chain index number usually gives a higher figure than a fixed-base index, even though the same commodities are included in both index numbers.

The price level in Shanghai, as shown by the old index numbers, advanced incessantly year after year. Since the adverse gold and silver exchange recently became acute, prices of imported goods jumped up by leaps and bounds. In view of the weak points of the chain system, the abnormally high figures might involve a more than ordinary amount of cumulated errors. Therefore, we decide to adopt the fixed base method. The year 1926 is taken as the base period in order to make the figures comparable to our index number of wholesale prices.

II. Classification and Commodities

The commodities in the index number of wholesale prices in Shanghai fall in eight groups as mentioned in Part I. To the readers who are interested in the study of price changes of particular groups (such as Food Products, Textile Fibres and Manufactures thereof, Chemicals and Preparations thereof, Building Materials, Fuel and Lighting, etc.), such a classication, of course, serves as a simple and convenient guide. But it fails to show clearly the causal relations between the price fluctuations of different commodities. Moreover, the purpose of a wholesale price index number measures the price level in the wholesale market of a country, whereas that of import and export index measures the changes of price level in the international market. Some other methods of classification, therefore, must be resorted to in compiling the latter.

According to the conclusions drawn by Professor W. C. Mitchell who made an exhaustive study of the wholesale prices in 1890-1913 in the United States, the commodities in an index number should be definitely grouped to show the peculiarities of their price fluctuations. To quote Professor Mitchell:

"First, the price fluctuations of a raw material are usually reflected in the prices of the manufactured products. Hence to quote in some cases both the raw material and several of its finished products, and to quote in other cases the raw material alone, assigns certain groups of related prices a larger influence upon the results than is assigned the other groups. When the aim is to secure a set of samples which fairly represent price fluctuations as a whole, the existence of these groups must be taken into account......

"Third, there are characteristic differences among the price fluctuations of groups consisting of mineral products, forest striking feature is the capricious behavior of the prices of farm crops under the influence of good and bad harvests..... their advance in the dull year 1904.....their failure to advance in the midst of prosperity of 1906.....are all opposed to the general trend of other prices. The prices of animal products are distinctly less affected by weather than the prices of vegetable crops, but even they behave queerly at times, for example in 1893. Forest-product prices are notable chiefly for maintaining a much higher level of fluctuation..... Finally, the prices of minerals accord better with alternation of prosperity, crisis, and depression than any of the other groups.An index number composed largely of quotations for annual crops, then, would be expected at irregular intervals to contradict capriciously the evidence of index numbers in which most of the articles were mineral, forest, or even animal products.

"Fourth, there are characteristic differences between the price fluctuations of manufactured commodities bought by con"Probably the most illuminating way of presenting an index number that aspires to cover the whole field of prices at wholesale would be to publish separate results for the groups that have characteristic differences of price fluctuations, and then to publish also a grand total including all the groups. The groups to be recognised and the distribution of commodities among them is a difficult matter to decide. But, as matters stand, the most significant arrangement seems to be (1) a division of all commodities into raw and manufactured products; (2) the subdivision of raw commodities into farm crops and animal, forest, and mineral products; (3) the subdivision of manufactured products according as they are bought mainly for personal consumption, mainly for business use, or largely for both purposes.

"This classification is based upon differences among the factors affecting the supply of and demand for commodities that belong to the several groups—that is, upon differences among the factors which determine prices."

Professor Mitchell's conclusions concerning the classification of commodities in index number of prices is especially adaptable to index numbers of import and export prices. In studying statistics of external trade of a country, it has been customary to classify goods as Raw Materials, Semi-manufactured Products, and Manufactured Products.² As China is still in the

Bulletin of the United States Bureau of Labor Statistics No. 284: Index Numbers of Wholesale Prices in the United States and Foreign Countries, pp. 40-51.

^{2.} The Statistics of External Trade may be compiled either for general or for special purpose. Statistics for General Trade may include: (1) as regards imports, all merchandise arriving from all territories external to the country to which the statistics apply, and (2) as regards exports, all merchandise leaving that country for an external destination; while statistics for Special Trade shall include (1) as regards imports, all goods declared for demestic consumption in the territory to which the statistics apply, and all goods declared for transformation, repair or supplementary treatment therein, and, (2) as regards exports, all exported goods

transitional period between the agricultural and the industrial stage, and is at present much affected by the unprecedented adverse gold and silver exchange, the causal relations between her external trade and the price fluctuations of both import and export prices will be more clearly revealed by classifying the commodities in the indexes according to their stage of manufacture.³

For the purpose of international comparison the United States Federal Reserve Board has constructed wholesale price indexes for the United States, the United Kingdom, Canada, France and Japan. According to trade movements, three different index numbers are compiled for Goods Produced, Goods Imported, and Goods Exported. The commodities therein are further classified, according to their stage of manufacture as Raw Materials, Producers' Goods and Consumers' Goods; and Raw Materials are subdivided into Farm Crops, Animal,

produced within the territory to which the statistics apply, or nationalized therein. The Chinese Customs Returns contain only the statistics of general trade, but not the special. However, in Appendix B of Part II, both imports and exports are grouped according to the Plan for a Common Nomenclature adopted by the International Conference of Commercial Statistics held at Brussel in 1910. The groups are: (1) Living Animals; (2) Food and Beverages; (3) Materials, Raw or Prepared; (4) Manufactured Products; and (5) Gold and Silver, Unwrought, and Gold and Silver Coins. Such a classification serves, to a certain extent, as an indication of external trade, though some of the commodities are not properly grouped. Following the classification made in the external trade statistics of the United Kingdom, Mr. C. Yang has recently reconstructed our trade statistics into following groups: (1) Food, Drink, and Tobacco; (2) Raw Materials and Semimanufactured goods; (3) Manufactured goods; and (4) Miscellaneous. See Statistics of China Foreign Trade during the Last Sixty-five Years, published by National Research Institute of Social Sciences, Academia Sinica.

- 3. The total value of imports to China was Hk. Tls. 570,163,000 in 1913, and Hk. Tls. 1,265,779,000 for 1929, seeming to point to an increase of our import trade by 125% in 16 years. But this is far from being the fact; the depreciation in the price of silver and the appreciation of the price of imported goods should at the same time be taken into consideration. As the import price index for 1929 stood at 178.5 (1913=100), the import value for that year should be Hk. Tls. 709,120,000 in 1913 price (Hk. Tls. 1,265,779,000 ÷178.5%), representing a substantial increase of approximately 25 per cent. over that of 1913.
- 4. Federal Reserve Bulletin: June, 1921; February, 1922; May, 1922.

Forest, and Mineral Products. Apparently Professor Mitchell's suggestions have been closely followed.

In both our index numbers of import and export prices the commodities are classified in the same manner as the U. S. Federal Reserve Board index.⁵ But due to the lack of production statistics to weight various commodities, compilation of an index for Goods Produced is not yet permissible. Moreover, the Federal Reserve Board Index is weighted by quantities obtained through the aggregative expenditure method (i.e., the value of goods produced minus that of goods exported plus the value of goods imported), and the goods produced and imported are combined to form a general index. In our case, this general index also can not be compiled owing to the absence of statistical data for weighting. Hence the index numbers of import and export prices are separately compiled for the time being.

As to the choice of commodities, our old index numbers consisted of practically all commodities whose import or export value reached or exceeded Hk. Tls. 500,000 in 1923, with only a few exceptions. During the course of years, however, many principal commodities in the past have gradually been displaced by new ones. In this revision, the relative importance of different commodities are apportioned according to their average import or export value during the years 1925-27. A minimum value of a trade of Hk. Tls. 500,000 is again taken as the criterion. The following, however, are omitted: duck's feather. straw braid, machinery and railway sleepers whose market prices are not easy to obtain; fleece and mats whose prices are subject to seasonal variations; goat's skin, the quality of which cannot be definitely determined; and commodities which are classified as "not otherwise recorded" in the Customs Returns and their individual import or export values are unknown.

As a result, the number of quotations in the export index is 66 and that in the import index, 109, being 13 and 6 items less than in the old indexes respectively. The value of commodities listed in the index number of export prices represents 78% of

^{.5.} Animal Products are not included in our import price index as the annual import value of the commodities under that group taken individually are less than Hk. Tis. 500,000.

IMPORT

EXPORT

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Groups	O TOPO	Quotations	Wol	Wolghts*	Porcour button of	Porcontingo Distri- bution of Weights	Quotations	tions	Wolg	Weights*	Percentage Durity button of Weights	Wolghta
	Now Index	Old	Now Index	Old	New Index	Old Index	New Index	Old Index	New Index	Old Index	Now Index	Old Inder
Raw Matorials	83	41	8,209	3,106	49%	21%	13	13	1,688	1,005	22%	17%
Agricultural Products	61	88	2,246	2,211	33%	36%	63	63	1,128	676	16%	11%
Animal Products	-4	9	471	820	7%	2%	1	i	ļ	1	1	1
Forest Products	81	61	104	202	2%	4%	15	4	120	126	2%	%7
Minoral Products	ъ 	10	448.	308	72%	%0	10	9	340	264	2%	4%
Producers' Goods	1	12	2,080	1,722	31%	28%	42	36	1,408	1,576	19%	25%
Consumers' Goods		8	1,927	1,283	20%	21%	54	99	4,239	8,718	20%	28%
Total	8	7.9	6,676	6,111	100%	100%	109	116	7,233	6,359	700%	100%
• Weights of the new indexes are the average export or not import values during the years 1925-27, while those of the old indexes are the export or not import values of 1923. In both cases, values are in Hk# 100,000.	lexes are export or	the aver	rage exp	ort or m	et impor 33. In b	t values	during t s, values	he years are in	1925—2 Hry 100	7, while	thone of	thio

the average total export value during the years 1925-27, while those contained in the import index represents 68% of the average total import values during the same period.

Like the wholesale price index, the compilation of both import and export indexes is based upon the wholesale market prices in Shanghai on the 15th of each month as collected by this Commission. From the theoretical point of view, to study the fluctuation of export and import prices of a country, prices in all the chief ports of origin or destination should be collected. But this is not feasible due to poor communications and lack of a uniform system of weights and measures within the country. Since, however, Shanghai commands about 40% of the foreign trade of China, it is believed that sample prices from this port alone will be fairly representative and incur no serious errors. The preceding table gives a comparison of the number of commodities and the proportion of different groups to the total for both import and export indexes.

III. Formula

The methods used for the computation of price index numbers may be mainly grouped into two categories, the simple and the weighted types. In the absence of statistics of production and consumption, the formula used in calculating our Shanghai wholesale price index number is of the simple type. Fortunately, in the compilation of the import and export price index numbers, we have trade statistics in the Chinese Customs Returns as a guide in assigning weights to individual commodities according to their relative importance in the import and export trade. For instance, we give the largest weight to soya bean as it constitutes our chief principal export and relatively smaller weights to silk and tea for they are less important than soya bean. Accordingly, a weighted formula is here adopted to compute our import and export indexes.

Formulae of weighted type now generally used for the calculation of price index numbers are the weighted aggregative and the weighted arithmetic. When the former is adopted, the weights represent the physical quantities of commodities instead of their money values. No calculation of price relatives is required and the computation involves only the division of the sum of products of the prices of individual commodities in the

given period by their respective weights (physical quantities) by that of the products of the prices in the base period by the same weights (physical quantities).

If the quantities of various commodities be represented by Q', Q'', Q''',........Qⁿ, the prices in a given period, by P₁', P₁'', P₁''',........P₁ⁿ, and the prices in the base period, by Po', Po'', Po''',........Poⁿ,

then the weighted aggregative index numbers will be:6

$$\begin{split} \mathbf{I} &= \frac{\mathbf{P}_{1}^{1} \cdot \mathbf{Q}^{1} + \mathbf{P}_{1}^{1} \cdot \mathbf{Q}^{0} + \mathbf{P}_{1}^{1} \cdot \mathbf{Q}^{0} + \dots \cdot \mathbf{P}_{1}^{n} \cdot \mathbf{Q}^{n}}{\mathbf{P}_{0}^{1} \cdot \mathbf{Q}^{1} + \mathbf{P}_{0}^{1} \cdot \mathbf{Q}^{0} + \mathbf{P}_{0}^{1} \cdot \mathbf{Q}^{0} + \dots \cdot \mathbf{P}_{0}^{n} \cdot \mathbf{Q}^{n}} \\ &= \frac{\sum_{i} (\mathbf{P}_{i} \cdot \mathbf{Q})}{\sum_{i} (\mathbf{P}_{i} \cdot \mathbf{Q})} \end{split}$$

When the weights adopted are the physical quantities of commodities during the base period, the formula becomes:

$$I = \frac{\sum (P_1 Q_0)}{\sum (P_0 Q_0)}$$

In the weighted arithmetic formula, the price relatives are used; the weights, therefore, should be reduced to a common denominator. As multipliers, of course, weights may be regarded as merely abstract numbers, but in studying the weights themselves it is necessary to have some common standard by which the relative importance assigned to various commodities can be accurately compared. The only common denominator for all commodities that is significant for economic ends and capable of quantitative expression is money value. compute the index number, the individual price relatives obtained by dividing the prices in a given period by the prices in the base period are multiplied by their respective weights (values); these products when added together and divided by the sum of weights give the index number. If the weights represent the money values of various commodities in the base period, the formula

^{6. ∑} Indicates the sum of

Formula 53 in Professor I. Fisher's "The Making of Index Numbers," p. 59; Appendix V, p. 471.

Formula 3 in Professor I. Fisher's "The Making of Index Numbers," p. 51; Appendix I, p. 379; Appendix V, p. 466.

$$\begin{split} & I = \frac{P_{o}' \, Q_{o}' \left(\frac{P_{1}''}{P_{o}''}\right) + P_{o}'' \, Q_{o}'' \left(\frac{P_{1}''}{P_{o}''}\right) + P_{o}''' \, Q_{o}''' \left(\frac{P_{1}'''}{P_{o}'''}\right) + \dots \dots P_{o}''' \, Q_{o}'' \left(\frac{P_{1}'''}{P_{o}'''}\right)}{\sum P_{o} \, Q_{o}} \\ & = \frac{P_{1}' \, Q_{o}' + P_{1}'' \, Q_{o}''' + P_{1}''' \, Q_{o}''' + \dots \dots P_{1}'' \, Q_{o}''}{\sum P_{o} \, Q_{o}} \\ & = \frac{\sum \, \left(P_{1} \, Q_{o}\right)}{\sum \, \left(P_{1} \, Q_{o}\right)} \end{split}$$

Here the two formulae, weighted arithmetic and weighted aggregative as mentioned above, are substantially identical with each other. As the value is the product of price and quantity, so the index number calculated by means of the weighted aggregative method represents the ratio of actual value of given quantities of various commodities at prices in a given period and of the same quantities of the same commodities at prices in the base period. It indicates, therefore, the changes in the money cost of a certain quantity of commodities as compared with its cost at prices in the base period. The weighted aggregative index number thus expresses more clearly the changes in the purchasing power of money than the weighted arithmetic index in which price relatives are used instead of actual prices.

Statistical data pertaining to the values and quantities of imports and exports being obtainable from the Customs Returns, it seems advisable to adopt the weighted aggregative method. But in practice there are some difficulties to be surmounted as the said index number is based upon market prices. (1) The quantity units appeared in the Customs Returns sometimes do not conform with those by which the market price is quoted; errors will ensue in the conversion from one unit into the other. (2) Though goods paying specific duties form a large part of our exports or imports, goods paying ad valorem duties also number not a few, for which only value, but not quantities, are

^{9.} The conversion from one unit into another of a commodity is simple and accurate if these units belong to the same class as unit of length, or unit of weight, or unit of volume, etc. For instance, we can easily convert piculs into tons, because they are both in units of weight. But trouble arises when it is to convert piculs of chinaware as given in the Customs Returns into dozens by which market prices are quoted, as the weight per dozen is uncertain, depending entirely upon the quality. Again, it is difficult to convert piculs of cattle leather as given in the Returns into square feet, because the weight per square foot varies greatly in proportion to its thickness. The conversion, if it is made at all, will naturally incur a considerable amount of error.

recorded in the Customs Returns. (3) There are many varieties in the quality of goods imported and exported while market prices chosen for each commodity usually refer to only one or two brands or grades; therefore, the product of price by quantity varies as the sample chosen is higher or lower in quality. When it is of high quality, the product thus obtained will be correspondingly high, or vice versa. This will tend to upset the original relative importance among the individual commodities in the import and export trade, and unduly affect the numerical result of their index number.

These drawbacks are present when the index number is based upon the market prices. If the Customs Returns value (i.e. the import or export value) is used, there will be no difficulty except that the quantities are not recorded in case of goods paying ad valorem duties. Since both the price and the weight (quantity) are obtained from the same source, no conversion of quantity units is necessary. As the Customs Returns value of a certain commodity is the quotient of its total import or export value by its corresponding quantity, the product of that value and of the same quantity gives the original dividend, (i.e., the total import or export value of that commodity).

The Customs Returns value is an average of values declared by merchants or estimated by the Customs or, in other words, it is the average cost actually paid or received by a country for goods it buys or sells. For example, the value of our imports of American cotton in 1929 amounts to 43,954,084 Hk. Tls. The price, 42.715 Hk. Tls., obtained by dividing the total value of all the cotton consignments imported by their total quantity, 1,028,144 piculs, will show the average cost per picul actually paid by Chinese for various grades of American cotton in the year with more comprehensiveness than the market quotation for a single grade of cotton, say "Middling American," provided, of course, the Customs Returns values are trustworthy. But it should be noted that, the purpose of price index numbers being generally to measure price variations over a considerably longer period of time, the commodities in the index numbers must be kept uniform in quality throughout the whole period. The Customs Returns value, which is simply an average value for various grades of that commodity, however, represents no definite quality. Assuming that both the price and quantity of 'American cotton imported this year are just the same as those of last year, the total value and consequently the average

(Customs Returns value) would undoubtedly be affected if the quality changes. The index number made from the import or export values would measure the net resultant of two sets of changes, and one cannot tell from the published results what part of fluctuations is due to changes in prices and what part due to changes in the quality of goods bought or sold. As a matter of fact, the import or export values as recorded by Chinese Customs are not so trustworthy as those in foreign countries where valuation for statistical purposes are more strictly administered. It is believed that the export values are less reliable than the import values; and the values of goods paying specific duties to which most of the principal articles of import and export included in the index numbers belong, than those of goods paying ad valorem duties.10 This explains why we prefer market prices to Customs Returns values. Moreover, should the Customs Returns values be used, the index number made therefrom would be unduly delayed in publication because of the fact that the Customs Returns are published quarterly and annually at the present time. Though the compilation of Monthly Returns is under contemplation by the Customs, yet the delay in its publication will be inevitable owing to the remoteness of certain districts. According to Professor F. Y. Edgeworth in his study of price index numbers, the discrepancies between the averages with haphazard and systematic weights seldom amount to 5 per cent of the result while those caused by the use of incorrect price data amount to as high as 25 per cent. As the Customs Returns value is inadequate for the purpose of compiling these index numbers, the market price is preferred.

"The valuations of specific-duty-paying goods are compiled from applicants' statements, and, in the absence of the right to demand production of duly certified invoices, are published with reserve."

^{10.} Tariff rates fixed as percentages of the values of goods are said to be ad valorem duties while tariff rates fixed according to measurements, such as the duty on cotton at Hk. Tls. 1.20 per picul, are specific duties. The values declared on those goods of import paying specific duties are, however, not entirely trustworthy as to be seen from the following statement given in Part I of the Foreign Trade of China, published by the Maritime Customs:

As our export tariff which had been put into operation since 1858, was not revised until June, 1981, it is apparent that the valuations on which the specific duties were based are much too low. The undervaluation of export, it is believed, constitutes an invisible item of our export in the international balance of trade.

When we have decided upon the use of the weighted arithmetic as the formula of the index and the values of imports and exports as weights, such difficulties as arising from the absence of quantity figures in the Customs Returns and from the difference between the quantity units by which goods are bought or sold at the market and those appeared in the Returns are automatically solved. In computing the weighted arithmetic index number, the price relatives of various commodities are multiplied by their respective values of imports or exports; the sum of the products are then divided by the total import or export values of all the commodities included to give the index number. As weights are multipliers of price relatives instead of actual prices, the influence of price changes of individual commodities upon all commodities is in proportion to their relative importance; the index number thus obtained naturally will not be affected by the quality of the samples chosen as in the case of weighted aggregative methods.

Symbolically, the formula is $I = \frac{\sum_{P_0}^{P_1}(P_0Q_0)}{\sum_{P_0}Q_0}$. It must be noted, however, that P in $\frac{P_1}{P_0}$ represents the market price, as the new index number is based upon market quotations; while P in PoQo represents the Customs Returns value, since weights (PoQo) are those of import or export values taken from the Customs Returns. When the market price does not coincide with the Customs Returns value, the product of the market price P and P can not be equal to the product of the Customs Returns value P and P and P consequently, the weighted arithmetic index number will not give the same result as the weighted aggregative index number.

In fact, the weights used in compiling index numbers are not necessarily consistent throughout. Sometimes weighting coefficients are used instead of values by roughly estimating the relative importance of individual commodities. For example, three price relatives such as 150, 120, 175 may be weighted by coefficients, 3, 2, 1 respectively; the weighted arithmetic index number will be:

$$\begin{split} \mathbf{I} \; &= \; \frac{\frac{\mathbf{P_1}'}{\mathbf{P_2}'}\mathbf{w}^1 + \frac{\mathbf{P_1}''}{\mathbf{P_2}''}\mathbf{w}^1 + \frac{\mathbf{P_1}'''}{\mathbf{P_2}'''}\mathbf{w}^{1''} + \dots \dots \frac{\mathbf{P_1}^{1}^{1}^{1}^{1}^{1}}{\mathbf{w}^1}}{\mathbf{w}^1 + \mathbf{w}^{1''} + \dots \dots \mathbf{w}^{1}} \\ &= \; \frac{\mathbf{\Sigma} \cdot \frac{\mathbf{P_1}}{\mathbf{P_2}}\mathbf{w}}{\mathbf{w}^1} \end{split}$$

It was approved by Dun, Falkner and Young. In Professor Fisher's "The Making of Index Numbers," it is designated as Formula No. 9001.¹¹ The same is used in computing our index number of the cost of living in Shanghai.¹²

^{11.} I. Fisher: The Making of Index Numbers, Appendix V, p. 487.

T. Sheng: The Index Number of the Cost of Living in Shanghai, Statistical Series No. IV, National Tariff Commission.

APPENDICES

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系 第 一 APPENDIX I

修正上游程格物價指數 圖 Chart of Revised Index Numbers of Wholesale Prices in Shanghai 民國十五年平均=100 Average of 1928=100

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修正上海蕴售物價指數表*

The Revised Index Numbers of Wholesale Prices in Shanghai*

民國十五年平均=100 Average of 1926=100

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\						toups			热指數
別		其他食物	紡織品及			猫女	化學品		General
年	粒 食	Other	其原料 Textile	金 屬	燃料	建築材料	Chemicals	雜類	General
. \	Cereals	Food Pro-	Fibres & Manufac-	Metals	Fuel &	Building	& Pre-	Miscel-	Index
別	Cereais	ducts & Provisions	tures	Meiais	righting	Materials	Thereof	Isneous	
		<u> </u>	Thereof			Ļ	ļ	!	
民亞十年 1921	72.2	81.6	103.5	96.1	108.7	125.5	161.7	104.0	104.6
十一年 1922	82,6	81.5	104.1	85.1	105.4	117.1	119.3	97.5	98.6
十二年 1923	86.3	93.9	110.6	99.3	102.8	115.5	108.9	98.5	102.0
十三年 1924	83 8	95.5	107.5	92.5	97.9	102.7	102.6	95,5	97.9
十四年 1925 十五年 1926	91.1	95.5 100.0	106.8 100.0	96.9	99.5	96.4 100.0	101 9	101.1	99.3
十五年 1926 十六年 1927	160.6	108.1	100.9	109.1	112.7	105.4	102.6	102.1	104.4
十七年 1928	89.6	108.7	102.1	102.9	104.0	103.0	101.2	1020	101.7
十八年 1920	97.2	109.5	101.9	111 0	104.1	108.1	105.8	104.2	104.5
十九年 1930	110.3	120.3	105.6	136.2	117.1	118.2	120.1	111.4	114.8
民國十年 1921 一月 Jan.	68.6	81.6	94.6	94.3	113.6	123.9	175.1	104.5	102.9
—Л Jan. — Л Feb.	64.7	83.2	97.1	97.6	114.4	126.2	185.9	145.6	105.5
二月 Feb. 三月 Mar.	65.6	83.6	99.0	95.1	115.4	125.3	189.6	106.0	106.2
四月 Apr.	65.7	81.1	99.9	101.3	115.6	122.2	180.2	105.6	105.9
JiH May	70.8	80.8	100.5	100.6	111.0	1223	174.0	105.1	105.2
大月 June	72.7 78.4	80.4 80.3	104.3 106.4	99.5 97.5	109.3 106.8	125.5 125.4	165 8 159.1	108.8 104.7	105.4 105.0
七月 July 八月 Aug.	77.7	82.8	107.2	95.9	106.5	120.4	155.3	103.2	105.0
九月 Sept.	80.1	82.8	110.5	95 0	104.0	125.8	145.1	10±1	1(55
十月 Oct.	77.3	80.8	107.3	92.6	103.1	127.7	138.9	100.9	102.6
1-J Nov.	76.6	81.8	106.9	92,8	102.5	128.0	136.9	101.7	102.5
十二月 Dec. 民國十一年 1922	78.2	80.8	108.4	90.8	102.5	123.5	134.9	102.8	102.1
氏國丁一年 1922 一月 Jan.	82.2	79.9	104.8	89.3	103.0	123.6	131.8	288	100.9
二月 Feb.	86.8	79.7	108.0	90.3	102.6	122.9	127 8	99.8	101.6
三月 Mar.	89.4	81.1	108.3	89.7	101.9	119.1	127.2	100.2	101.8
四月 Apr.	87.8	80.2	105.6	88.6	102.8	116.4	125 6 122.1	101.1	100,6
五月 May	84.5 81.5	79.7 80.6	104.4 104.5	85.3 81.7	106.2	118.3 115.5	115.4	98.4 95.5	99.2 97.2
六月 June 七月 July	82.8	83.6	103.0	81.0	105.2	115.3	114.5	96.5	97.6
八月 Acg.	79.6	81.7	101.0	82.0	103.5	114.5	115.0	91.4	98,1
九月 Sept.	80.4	80.1	98.0	81.4	103.4	114.8	111.9	94.4	95.0
	79.1	80.8	99.4	81.4	105.8	117.5	114.6 113.0	96.3	96.2
十一月 Nov	76.8 80.8	84.2 85.6	105.0	83 3 86.9	110.8	1123	113.4	96.8 97.4	97.5 99.5
十二月 Dec. 民國十二年 192		00.0	101.0	00.0	113.2	110.5	110.4	31,4	33.5
一月 Jan.	85.2	88.0	110.5	89.7	110.9	116.4	110.0	98.2	100.9
二月 Feb.	89.0	91.8	112.8	96.4	103.2	118.0	110.8	99.5	103.3
三月 Mar.	85.9	95.7	109.4	102.6	105.2	118.6	114.8	102.1	104.1
四月 Apr.	86.4 88.7	93.6 94.2	107.9 108.9	101.4 101.6	105.4	120.4 114.8	112.2 105.9	100.9 100.0	103.2
五月 May	88.3	92.9	109.5	99.5	162.0	111.6	104.2	97.3	100.8
六月 June 七月 July	87.8	92.1	109.2	98.5	103.0	1125	1049	98.7	100.8
X H Ano	87.1	93.1	106.7	98.9	101.1	113.4	101.4	98.7	99,9
九月 Sept.	\$8.9	959	108.3	104.9	100.4	116.1	106.1	98.1	102.1
,十月 Oct.	\$5.1 82.1	94.9 97.8	111.4	101.0	99.1 98.1	114.9 116.1	109.4	96.3 96.4	101.7
十二月 Nov. 十二月 Dec.	81.6	97.1	117.3	98.3	97.7	113.8	113.1	96.3	102.6
i _Ji Dec.	1	1	1	1	- ""	1 -10.0	1	1 20.0	

修正上海蓬售物價指數表(細

The Revised Index Numbers of Wholesale Prices in Shanghai (Cont.d.)

民國十五年平均=100 Average of 1926=100

、 類			各	類	指。	数			
\			By		G	roups			绝指数
\ F1		++ 45-44-44	紡織品及			20-52	化型品		
年	糧食	其他食物	其原料 Textile	金屬	燃料	建築材料	Chemicals	継 類	General
* /		Food Pro-	Fibres &		Fuel	Building	& Pre-	Miscel-	Index
別	Cerealz	ducts & Provision	Manufac-	Metals	Lighting	Materials	parations Thereof	lancous	
		1	Thereof		<u> </u>		!		<u> </u>
民团十三年 1924	-								
一月 Jan.	82,5	96.8	114.6	96.4	96.0	115.3	110.8	95-5	101.6
二月 Feb.	83.4	97.8	112.7	97.7	94.9	111.0	106.8	96.1	100.8
三月 Mar. 四月 Apr.	81.2 80.7	94.6 94.3	111.4	98.5 97.0	93 9 95.1	107.8 107.0	105.0 103.1	95.5 97.2	99.1 98.6
五月 May	79.8	94.3	107.5	95.3	97.3	104.0	102.4	93.6	97.2
大月 June	79.7	95.7	107.5	90.4	96.6	101.4	102.0	95.6	96.9
47 H July	83.1	92.4	107.2	89.4	96.4	100.2	101.5	95.3	96.4
八月 Aug. 九月 Sept.	85.5 86.0	94.3 97.3	105.8 101.8	87.0 84.9	98.3 97.8	97.1 98.3	102.9 101.8	95.3 95.4	96.7 96.4
九月 Sept. 十月 Oct.	85.5	97.7	102.8	88.4	100.3	98.5	100.1	94.2	96.5
十一月 Nov.	869	95.7	104.0	88.8	107.3	97.1	981	962	97.2
十二月 Dec.	85.1	94.6	105.2	95.9	102.8	95.8	97.1	96,2	96.9
民國十四年 1925 一月 Jan.	84,6	95.0	105.5	100.8	102.0	98.0	101.3	966	98.2
≕ F Feb	83.4	93.1	106.7	99.5	101.4	101.0	100.2	98,4	97.9
三月 Mar.	87.2	92.2	107.8	99.5	101.1	96.3	99.4	95,7	97.6
四月 Apr.	91.7	92.0	108.1	96.1	101 2	96.9	97.8	95.2 102.3	97.9 99.9
五月 May 六月 June	95,6 93.2	95.7 96.3	107.4 106.7	95.0 95.8	98.9 96.1	95.0 95.1	101.5	104.1	99.6
Li July	96.8	1031	108.4	95.5	98.6	95.2	111.4	105.2	103.2
八月 Aug.	92.3	99.5	109.1	95.4	100.8	96.1	107.0	104.0	101.7
九月 Sept. 十月 Oct.	91.2 91.9	96.8 94.8	107.6 106.5	96.1 95.9	160.3 98.2	95.5 95.8	103.9 101.2	104.4 104.4	100.5 99.4
十月 Oct. 十一月 Nov.	90.4	93.5	105.0	97.0	98.3	95.7	99.7	102.0	98.3
十二月 Dec.	92.3	93.6	1025	98.4	97.2	95.7	97.1	102.4	97.6
民國十五年 1926		0.0				0=7	00 =	00.0	07.0
→月 Jan. 二月 Feb.	93.5 96.2	95.8 98.9	102.5 102.7	98.8 97.8	94.5 92.8	95.7 99.2	98.5 99.0	99.8 99.5	97.9 99.0
ΞЯ Mar.	99.2	98.2	100.8	98.6	97.2	97.0	98.9	101.1	99.2
四月 Apr.	100.5	97.7	100,7	98.0	97.6	98.4	99.2	10L5	99.4
H.H May	98.4	94.1	97.5	96.8	99.9	100.9 98.8	98.7 98.3	100.5 98.0	98.1 97.9
六月 June 七月 July	97.5 97.3	99.0 98.0	98.6 98.5	91.5 92.4	98.5 101.1	93.8	98.5	97.8	98.0
元月 Aug.	97.3	99.5	98.2	95.7	97.7	93.4	98.4	96.3	97.9
九月 Sept.	100.7	100.3	98.8	93.9	100.5	100.2	98.3	96.7	99.2
十月 Oct.	109.7 105.7	104.0	100.1 100.7	103.1 113.4	101.2 106.6	101.7 104.9	102.2 105.1	101.0	103.0 105:3
十一月 Nov. 十二月 Dec.	103.7	106.6	100.7	110.2	112.1	106.4	104.5	104.9	105.5
民國十六年 1927		200.0				1			1.
A Jan.	103.4	104.8	96.9	112.3	111.4	103.3	101.7	102.9	103.2
二月 Feb.	102.8 105.5	104.9 106.8	96.9 99.1	112.2 111.0	111.4 114.0	104.9 107.9	100.0 99.8	102.6 102.4	103.1 104.7
三月 Mar. 四月 Apr.	105.5	100.8	99.1	111.8	117.7	101.5	103.3	102.4	105.2
五月 May	108.6	102.7	99.7	111.3	113.1	103.1	104.3	102.5	104.1
六月 June	106.4	104.7	99.8	107.5	112.2	102.0	103,8	101.3	103.9
七月 July	103.9	105.4	101.S 102.S	108.4	114.4 115,9	104.1	103.8 103.6	101.1	104.5 104.8
ス月 Aug. 九月 Sept.	99.6	111.1	105.6	109.7	113.1	105.3	102.0	101.5	106.2
十月 Oct.	93.2	112.5	105.1	108.4	111.5	107.6	102.4	101.0	104.9
十一月 Nov-	91.2	110.9	102.0	104.6	107.8	105.6 104.1	103.1 102.9	101.5 101.2	103.1 101.7
十二月 Dec.	86 2	112.1	100.2	103.4	107.6	109.1	102.9	101.2	101.7

修正上海盛售物價指數表(概)

The Revised Index Numbers of Wholesale Prices in Shanghai (Cont'd.)

民國十五年平均=100 Average of 1926=100

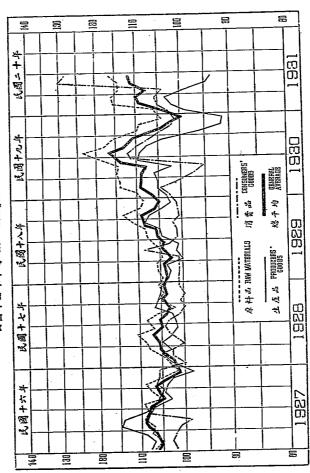
、 類			各	類	排	歇			İ
\			By		G	roups			總指數
月			紡織品及				化型品	1	
年	精会	其他食物 Other Food Pro-	共原料	金属	燃料	建築 材料		雜類	General
* /		Food Pro-	Textile Fibres &		Fuel &		Chemicals & Pre-	Miscel	Index
Bil /	Cereals	ducts & Provisions	Manufac-	Metals	Lighting	Building Materials	parations	laneous	
••			tures Thereof				Thereof		ļ
****** 1000		1							· · · · ·
民國十七年 1928 一月 Jan.									
二月 Feb.	88.3	107.0	10I 0	103,5	104.8	103.7	102.2	101.0	101.0
三月 Mar.	92.8 94.4	109.8 108.0	101.4 102.6	104.2 103.0	103.9 103.0	103.6 101.9	100.0 101.1	101.9 102.7	102.2 102.4
四月 Apr.	93.5	108.8	102.6	107.8	104.0	102.5	101.7	102.7	102.4
H.J. May	93.2	100.5	103.7	107.0	102.1	101.4	102.1	103.0	103.0
六月 June	87.2	109,0	102.4	104.8	102.7	101.2	103.2	103.6	101.7
는月 July	85.1	107.7	103.3	101.6	102.5	99.8	102.5	103.2	160.8
八月 Aug.	82.6	108.0	100.G	99.6	103.5	102.3	102.1	101.9	99.8
九月 Sept. 十月 Oct.	82.I	1033	99.8	98.8	101.5	101.3	100.3	100.0	98.9
THE Nov.	89.4 91.1	10⊀.3 107.9	101.9 101.7	99.7 101.3	103.7	105.5	100.2	100.1	101.2 101.4
+= // Dec.	98.2	106.1	101.7	101.4	103.2 103.7	106.1 105.8	99.4 99.5	100.4 101.7	101.4
民國十八年 1929	50.2	100.1	101.1	101.4	109.7	100.0	33.0	101.7	101.0
—月 Jan.	93.6	106.6	101.5	101.2	103.2	105.9	102.3	101.1	101.7
二月 Feb. 三月 Mar.	95.3	107.7	101.5	105.5	106.1	107.9	104.5	102.5	103.2
	94.9	108.4	102.6	109.8	106.2	107.9	105.7	103.0	101.1
四月 Apr.	89.2	107.7	102.0	112.9	105.4	109.0	105.3	103.2	103.1
五月 May. 六月 June	89.5	1101	99.9 99.7	109.1	103.4	108.8	105.3	102.6	102.6
七月 July	91.2 95.2	110.7 108 1	100.3	110.7 111.5	104.2 103.6	108.1 107.8	105.2 106.6	103.1 102.6	103.0 103.4
八月 Aug.	99.7	108.4	102.0	112.3	104.4	106.8	106.5	104.6	104.8
九月 Sept.	103.7	110.7	104.3	112.7	104.6	108.4	106.3	104.9	106.6
十月 Oct.	106,2	111.3	104.4	114.0	104.1	109.1	1063	108.8	107.4
十一月 Nov.	103.4	109.9	102,2	114.7	101.0	108.1	107.7	107.2	106.1
TIJ Dec.	103,1	109.2	101.1	115.0	101.2	107.9	107.0	106.1	105.5
民国十九年 1930 一月 Jan.			1 100 4	703.0					
二月 Feb.	108.1 111.5	112.9 115.7	103.4 105.1	123.2 129.1	103.4 107.3	108.3 111.2	108.8 112.3	105.5 168.6	108.3 111.3
三月 Mar.	110.5	115.7	105.0	131.0	107.5	114.7	115.5	108.6	111.3
Zifi Apr.	113.0	113.5	104.7	129.4	106.3	114.9	115.2	107.3	111.2
Jiff May	112.5	111.2	103.4	130.2	112.7	115.1	116.0	107.5	111.0
六月 June	118.4	121.1	106 8	144.5	119.4	1200	124,4	112.9	117.5
-t/l July	121.7	126.6	107.8	144.4	122.7	124.7	125.0	115.2	120.4
八月 Aug.	117.6	125.8	107.6	144.2	122.1	123.1	128.7	114.7	119.6
九月 Sept.	114.5	126.3	106.5	137.2	125.5	120.5	1249	114.5	113.4
十月 Oct. 十一月 Nov.	100.8 98.5	123.7 120.8	106.6 105.8	138.5 136.7	123.6 123.5	120.0 121.7	121.6	114.6	115.4
THE Dec	93.1	121.1	104.7	141.9	125.5	123.0	121.6 123.8	112.9 112.4	114.1 113.6
十二月 Dec. 民國二十年 1931	55,1	141.1	101.1	121,5	120.2	1.0.0	0.0شد	112,4	110.0
一月 Jan.	93.1	127.1	111.9	161.1	131.9	127.8	135.5	116.3	119.7
二月 Feb.	96.5	139.1	122.7	164.1	142.5	131.0	141.3	119.9	127.4
ΞΠ Mar.	95.8	131.3	119.8	164.3	146.3	135.1	146.0	122.1	128.1
129月 Apr.	91.9	131.0	121.4	169.2	152.4	137.2	147.3	122.7	126.2
五月 May 六月 June	95.0 94.0	137.6 141.8	118.9	159.5	153.1	136.0 137.1	147.6	123.8	127.5
NH June	34.0	141.0	121.4	157.4	152,9	13/-1	153.2	126.0	129.2

^{*}自十六年一月起保闭基期(十五年)之作正捷同平均指數。北十年一月至十五年十二月之指 致,保度證各年茲钧仅英按茲基期(二年二月)計算幾何平均指數(委照附錄七),而後轉換 爲新基期。

The index numbers beginning from January, 1927, are revised series on the new base (1926). Those from January, 1921 to December, 1926 are recomputed into geometric averages from the original price list on the February, 1913 base (see Appendix VII) and then converted to the new base.

APPENDIX II

任 压 上 饰 螈 出 切 切 组 销 数 网 Chart of Revised Index Numbers of, Export Prices in Shanghai 瓦區十五 年平均=100 Average of 1926=190



- 6 **-**

修 正 上 海 轍 出 物 價 指 數 表

The Revised Index Numbers of Export Prices in Shaughai

民國十五年平均=100 Average of 1926=100

✓ 類		原料品	Raw	Materials		生產品	荷委品	總指數
华 別	良產 Agricul-	動物產 Animal	林 産 Forest	續 産 Mineral	平均	Pro- ducers'	Con- sumers'	General
別	tural Products	Products	Products	Products	Average	Goods	Goods	Index
民國十五年 1926 十六年 1927 十七年 1928 十八年 1929 十九年 1930	100.0 105.3 106.8 109.6 115.9	100.0 102.2 106.0 108.3 106.7	100.0 100.2 94.4 93.1 96.0	100.0 119.7 104.9 99.2 114.5	100.0 106.6 106.0 107.5 113.8	100.0 106.5 104.0 103.6 102.6	100.0 104.4 101.6 102.0 104.0	100.0 108.1 104.5 105.2 108.3
民國十六年 1927					·			
一月 Jan. 二月 Mar. 四月 Apr. 五月 May 六月 June 七月 July 八月 Sept. 十月 Nov. 十二月 Dec.	103.1 102.6 105.7 105.8 106.7 107.5 109.1 104.6 106.9 108.2 105.1 97.8	107.5 103.2 99.9 100.2 102.1 98.9 99.4 95.4 102.9 105.8 102.5 111.3	108.6 103.3 101.8 99.3 92.5 101.8 104.4 96.4 97.9 96.5 97.4 98.4	122.4 122.7 128.1 119.6 129.8 121.2 121.5 121.4 118.1 115.9 109.9 110.1	106.5 105.0 107.1 106.7 109.0 108.0 109.2 105.3 107.6 108.6 105.1	107.3 106.4 108.6 114.8 113.9 108.6 105.8 103.1 104.5 104.1 102.7 98.3	101.7 102.5 101.8 101.0 98.6 107.7 105.1 105.3 104.5 106.6 105.6	105.8 105.0 108.5 108.1 108.5 108.1 107.5 104.7 106.0 106.8 104.5
民國十七年 1928	ř .		20.0	1000	100.0	1007	00.0	102.5
一月 Jan. 二月 Keb. 三月 Mar. 四月 Apr. 五月 May 六月 June 七月 June 七月 Cot. 十一月 Nov. 十二月 Dec.	101.1 103.7 109.0 110.3 113.0 107.8 110.4 107.4 101.6 106.3 105.1	109.8 110.8 105.4 102.6 105.7 104.2 104.1 104.0 105.2 107.2 104.4 108.8	99.0 91.8 91.8 91.8 93.7 93.3 94.4 94.6 96.5 96.5	108.2 106.0 105.9 108.3 107.6 106.7 104.6 102.9 102.7 102.3 102.1 101.8	103.2 104.6 107.5 108.3 110.6 106.7 108.2 105.9 102.1 105.5 104.2 105.4	103.1 105.0 103.2 104.9 102.8 101.7 102.1 102.6 106.4 105.9 105.1 104.7	99.8 102.9 103.0 109.0 103.1 104.2 103.4 100.8 99.6 101.0 99.6 100.8	102.5 104.4 105.3 105.6 106.7 104.6 105.3 103.8 102.9 104.7 103.6 104.3
民國十八年 1929	1	107.6	000	109.7	104.5	103.2	101.0	103 4
一月 Jan. 二月 Feb. 三月 Mar. 四月 May 六月 June 七月 July 八月 Sept. 十月 Nov. 十一月 Dec.	105.0 106.7 107.2 105.6 106.4 108.9 110.7 111.8 115.6 117.0 111.0	107.6 108.9 105.5 105.9 105.8 105.4 108.0 105.8 106.4 115.6 114.1	96.0 96.8 96.3 94.7 95.2 95.7 90.8 89.8 92.0 89.8 91.2 89.8	100.6 101.0 99.7 98.3 97.8 97.4 97.6 98.0 98.6 99.1 101.3	105.6 105.9 104.5 104.8 106.8 107.8 108.2 111.1 113.4 109.2 107.9	102.8 103.7 100.0 101.5 101.1 104.6 105.0 107.8 107.0 104.5 102.3	100.9 100.9 101.1 108.5 103.1 101.2 101.3 101.7 100.5 100.8 101.1	103.8 104.2 102.4 104.5 104.1 105.5 105.8 108.2 108.2 106.1 104.8

修正上海轍出物價指數表(級)

The Revised Index Numbers of Export Prices in Shanghai (Gont'd)

·民國十五年平均=100 Average of 1926=100

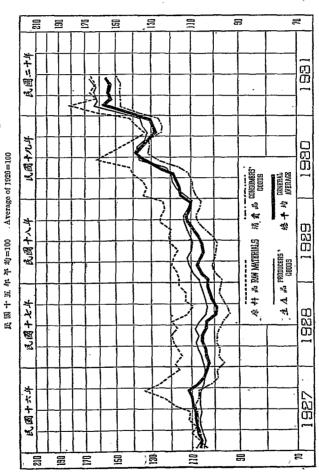
		原料品	Raw	Materials		生產品	消費品	総指数
年別	及產 Agricul- tural Products	動物 產 Animal Products	林 產 Forest Products	該產 Mineral Products	平均 Average	Pro- ducers* Goods	Con- sumers' Goods	General Index
民國十九年 1930		112.5	90.4	106.8	110.1	103.2	102.4	106.4
一月 Jan. 二月 Feb. 三月 Mar.	111.1 115.8 115.8	108.4 109.4	92.9 93.9	113.5 114.2	113.7 113.9	105.2 105.2 105.2	104.5	109.2 108.7
四月 Apr. 五月 May	117.8 117.5	107.4 106.4	92.4 93.2	113.0	114.8 114.2	105.9 102.8	97.1 95.4	108.5 106.8
六月 June 七月 July	120.7 120.4	108.4 104.6	96 8 103.5	118.1 119.7	117.8 123 6	109 6 109.1	111.5 112.2	114.0 116.8
八月 Aug.	121.3 119.0	103.9 104.7	97.8 93.3	120.2 116.9	117.9 115.8	107.3 104.0	110.1 107.1	113.0 110.4
十月 Oct.	110 9 109.8	105.2 105.2	95.0 100.9	112.5 110.3	109.8	96.0 91.6	103.9 102.0	104.3 102.2
十一月 Nov. 十二月 Dec.	102.2	104.0	102.9	8.611	104.3	91.3	101.4	99.7
民國二十年 i931					·			
~月 Jan. ≒月 Feb.	102 3 112.8	106.6 111.9	104.0 106.6	125.4 134.1	106.2 115.4	99,1 102,0	102.5 105.1	103.2 109.1
三月 Mar.	111.5 110.5	117.2 110.6	111.0 112.2	187.3 136.9	115.9 114.2	193.0 99.0	105.8 104.1	109.9 107.4
四月 Apr. 五月 May 六月 June	111.2 114.5	106.9 108.5	113.8 113.8	137.2 135.3	114.2 116.5	94.6 93.6	139,1 128,3	111.3 111.7
7.77 GHIC								

路 線 川

APPENDIX III

俗正上游職入物價指数區

Chart of Revised Index Numbers of Import Prices in Shanghai



修正上海盤入物價指數表

The Revised Index Numbers of Import Prices in Shanghai

民国十五年平均=100 Average of 1926=100

					 -		
\ 類	原	料品	Raw Mater	rials	生產品	消費品	色指数
年別	良造 Agricul- tural Products	林 產 Forest Products	線產 Mineral Products	平均 Average	Producers' Goods	Con- sumers' Goods	General Index
民國十五年 1926 十六年 1927 十七年 1928 十八年 1929 十八年 1930	100.0 114.7 119.9 127.7 151.1	100.0 109.0 102.8 106.6 121.7	100.0 120.6 105.2 101.0 116.9	100.0 115.6 115.5 120.3 141.6	100.0 104.9 105.4 110.6 128.1	100.0 104.9 96.8 102.0 120.7	100.0 107.8 102.6 107.7 126.7
民國十六年 1927							
一月 Jan. 二月 Feb. 三月 Apr. 四月 Apr. 近月 July 六月 July 八月 Sept. 十月 Oct. 十二月 Dec.	97.6 100.4 106.5 103.6 109.1 109.4 116.5 122.7 188.6 130.4 124.2 117.9	110.1 110.9 110.2 109.1 108.2 108.7 105.3 108.7 111.8 110.9 108.9	118.4 121.5 123.0 122.1 121.3 116.2 126.2 126.9 124.1 119.3 116.3	103.0 105.7 110.8 108.0 111.5 110.8 117.7 122.6 133.5 126.5 121.3	104.3 103.8 104.9 105.8 106.1 105.4 105.9 105.7 105.5 104.3 104.0 103.6	107.7 105.8 105.6 107.4 106.8 107.3 107.9 108.3 108.0 101.4 98.4 98.8	106.0 105.4 106.5 107.2 107.7 107.7 109.6 109.8 111.9 107.5 104.5 103.6
民國十七年 1928				1	1		
一月 Jan. 二月 Feb. 三月 Mar. 四月 Apr. 五月 May 六月 June 七月 July 八月 Ang. 九月 Sept. 十一月 Nov. 十二月 Dec.	120.6 116.8 120.9 123.3 125.2 121.8 126.2 116.0 112.5 117.2 117.3 121.7	106.8 106.0 103.5 102.9 101.7 101.4 100.6 100.8 100.9 101.5 103.4 104.3	112.9 110.8 108.2 107.5 107.5 106.4 104.9 103.2 101.9 100.6 99.7 98.7	117.9 114.7 116.8 118.4 119.7 117.0 119.6 112.1 109.3 112.5 112.5	104.1 104.8 106.5 107.5 106.4 107.8 106.2 103.5 102.8 103.3 104.4 105.2	95.9 98.3 97.9 99.1 99.0 97.3 96.2 93.5 94.0 96.0 97.6 97.1	102.3 103.2 103.7 105.0 105.0 103.6 103.8 99.5 99.1 101.0 102.2 102.7
民國十八年 1929							
一月 Jan. 二月 Keb. 三月 Mar. 三月 Mar. 三月 May 六月 Juny 六月 Juny 六月 Aug. 九月 Oct. 十二月 Nov.	121.2 122.6 126.5 123.2 122.2 127.5 128.8 127.5 134.8 134.4 131.2 131.9	107.1 109.1 110.7 108.9 108.1 107.5 107.1 106.0 105.7 103.5 102.9 103.2	99.9 100.8 100.5 103.3 190.6 101.1 99.6 99.4 100.2 101.7 101.9	115.6 116.9 119.7 117.8 116.5 120.3 120.9 119.9 125.2 125.0 122.8	106.3 109.3 111.8 109.9 109.7 110.3 111.7 112.5 112.9 111.4 109.5	96.6 100.1 101.0 99.8 98.9 98.5 100.2 103.6 106.4 107.7 105.8	102.8 105.6 107.1 106.1 104.9 105.4 106.7 111.7 112.5 110.6

修正上海輸入物價指數表(數

The Revised Index Numbers of Import Prices in Shanghai (Cont'd.)

民國十五年平均=100 Average of 1926=100

	即	料品	Raw Mater	ials	生產品	消費品	總指數
华 別	農產 Agricul- tural Products	林 產 Forest Products	級 產 Mineral Products	至均 Average	Pro- ducers ¹ Goods	Con- sumers' Goods	General Index
E四十九年 1930 一月 Jan. 二月 Feb. 三月 Mar. 三月月 May 元月 June 七月 July 九月 Sept. 十月月 Otov. 十二月 Dec.	144.2 139.2 142.3 150.5 152.9 177.8 165.6 155.9 147.8 139.9 147.8	103.8 106.5 109.5 111.8 115.7 134.5 139.5 134.0 127.6 127.2 128.0 125.7	111 7 118.9 117.4 115.6 113.0 119.4 122.9 122.8 115.9 113.9 112.8 118.2	134 2 132.4 134.5 140.2 141.6 162.0 154.5 147.2 139.4 188.5 141.8	113.2 116.9 119.0 119.5 121.4 137.5 137.5 137.2 133.1 131.7 134.3 135.7	107.8 109.8 109.8 111.2 115.5 126.1 131.4 130.7 131.2 124.5 124.0 126.0	114.6 115.8 117.0 119.2 122.3 136.0 137.7 135.6 133.3 127.8 129.2 131.3
民國二十年 1931 一月 Jan. 二月 Feb. 三月 Mar. 四月 Apr. 近月 May 六月 June	173.7 200.2 170.2 175.6 169.8 172.0	135.4 143.1 150.3 150.3 152.2 159.6	124.8 135.1 140.1 139 0 141.0 142.0	160.4 182.0 162.2 165.9 162.3 164.6	150.5 163.5 161.9 163.8 162.8 166.0	138.2 146.9 146.8 147.3 146.8 149.6	145.5 157.8 153 2 154.6 158.8 156.1

附錄四

APPENDIX IV

修正上海邁售物價指數之基價

Commodities and Their Basic Prices in the Revised Index Numbers of Wholesale Prices in Shanghai

The state of the s							
	物品及項目 Commodities & Descriptions	早 位 Unit	基单页格 Basic Price T				
	機 食 類 Coreals						
米	Rice:-						
小姿	禁河設博 Rice, Long, Changshu 群同関博 ""、"" Soochow 江西設支 ""、"" Kiangsi 確注来 ""、"" Hunan 一替西貫米 ""、1 st. quality, Saigon 設筑米 "" Meedong, Rangoon 常河設元 "" Glutinous, Changehu Wheat:— 茂日小李 Wheat, Hankow	石 200 lbs. " " " " " " " " " " "	12.165 11.383 9.919 9.572 9.537 9.515 11.919				
	火車小夢 ,, Tientsin-Pukow Bailway	,,	4.623				
	函数美國小多 ,, 1 st. quality, U.S. A.	,,	5.150				
題粉	Wheat Flour:—	ĺ					
黄豆	終兵船牌逐初 Wheat Flour, "Green Battleship" 老車岸運初 , , , "Bicycle" 壁馬焊逐初 , , "Two Horses" 金建焊逐初 , , "Gold Bell" 紅日當天岸運粉 , , "Major"	æ sack " " "	2.335 2.336 2.320 2.274 2.276				
	大連抗豆 Soys Beans, Dairen 平格	担 picul	4.576				
跨豆 黑豆	大地主教 Kaoliang, Dairen	" "	4.834 3.094 3.894 3.873				
	大連並来 Corn, Dairen	, "	3.046 3.113				
78-10	Appropries Appropriate to the Control of the Contro	1 ,,	[9.119				

修正上海茲售物價指數之基價 (額)

Commodities and Their Basic Prices in the Revised Index

		3		
·	Com	か 品 及 項 目 nodities, & Descriptions	平 位 Unit	基年價格 Basic Price 坚
	其	他食物類		
	Other Foo	od Products & Provisions		
茶	Te	a:—		
	珍眉綠茶 屯溪上衛	Tea, Green, 1st. quality, "Chun Mee"	担 picul	99.083
	邓門紅茶上等	Tes, Black, 1st. quality, "Kee Mum"	,,	91.292
咖啡	二號爪哇卯非	Coffee, 2nd. quality, Java	,,	43.583
糖	Su	gar:—		
	十號荷閣赤榜	Sugar, Brown, No. 10		6.142
	廿四號粗砂白 籍	,, White, No. 24	ינל	7.513
	八號車白籍	,, ,, "N', Japan	17	7.319
酒	Lic	guor:—		
	雙加重紹演	Liquor, Best, Shaosbing	,,,	8.417
	上海啤酒	Beer, "U. B."	着 case	8.642
	白蘭地酒	Brandy	打 dozen	18.278
菸葉	То	bacco Leaves.—		İ
	頭號坊于於葉	Tobacco Leaver, 1st. quality Shangtung	担 picul	29.158
	頭鼓美國菸葉	Tobacco Leaves, 1st. quality, U.S.A	百磅 100 lbs.	53.826
紙鹽	Cią	garettes:-		
	金鼠牌紙燈	Cigarettes, "Gold Rat"	千支 1,000	2.453
	大英幹紙煙	" "Ruby Queen"	72	2.691
極	百五十只花族 鲜儒	Oranges, Fresh, 150 pcs-case, U.S.A.	箱 CREE	10.932
磊楽	統手楽	Dates, Black	担 picul	10.017
花生	山東生仁	Groundnuts, Kernels, Shangtung	- "	7.853
金針。	英中安	Lily Flowers, 2nd. quality	,,,	18.679
芝麻	亳州白芝麓	Seed, Sesamum, Bohchow	-33	8.794
油	Oi	I:—		,
	大連互油	Oil, Bean, Dairen	,,	12.968
	本数生油	" Groundnut, Local	"	15.510
		•	,	

修正上海蒐售物價指數之基價()) Commodities and Their Basic Prices in the Revised Index

		7 品及項目 aodities & Descriptions	¥.	位 nit	基华價格 Basic Price ²
		他 会 物 類 (類)			
	~	roducts & Provisions (cont'd.)	j		
2011	6 正数额口约	Vermicelli, 1st. quality, Lungkow	担	picul	19.383
器肉	, 1000	Porks, Fresh	1	,,	23.561
牛肉		Beef "	百磅	100 lbs.	12.078
羊肉		Mutton ,	ļ	"	15.914
火腿	金等味蘭雯	Ham, Kinhwa	担	picul	42,710
班	Eg	gs:]		
	大戟鲜蕻蛮		千個	1,000	15.487
	與蛋白 塊白 無鉛質	Egg Albumen, Crystals without Zinc	担	picul	127.053
牛乳	淡牛乳	Milk, Evaporated	箱	case	7.604
魚	Fis	h:	1		ļ
	北洋蘇帶魚	Fish, Salt, Native	担	picul	8.657
	庭門魚	" Salmon, Japan	1	13	8.467
海釜	日本大統十否 参	Bicho de Mar, Black, Spiked, Japan		n	170.833
	紡織	品及其原料類	1		ļ
	Textile Fibr	es & Manufactures Thereof	1		1
棉花	Co	tton, Raw:	1		-
-ug-ya	陝西梯	Cotton, Raw, Shensi	耕	picul	31.074
	逐州榜	,, Tungchow	-	<i>y</i>	33,117
	火機棉	Local Best, Steam-ginned,		"	31.667
	餘結排	Cotton, Raw, Yuyao		**	80.131
梯秒	Co	tion Yarn:—	1		
_	十支大量战劫	Cotton Yarn, 10's, "Daifel"	包	bale	130.890
	十六支人館積 砂	" " 16's, "Chen Tsong"		19	188.250
	十六支寶鼎橋 紗	" " "Pao Ding"	{	" .	139.083
	二十支全域機 舒	,, 20's, "Grand Wall"		,,	154.115
	*		ι		ı

修正上海茲售物價指數之基價 (粮)

Commodities and Their Basic Prices in the Revised Index

-	· 均	,品 及 項 目 nodities & Descriptions	單 位 Unit	基学價格 Basic Price 安
т		品及其原料類(液) t Manufactures Thereof (cont'd.)		
	二十支水月棉	Cotton Yarn, 20's "Water Moon"	& bale	151.963
	サニ支美人格 秒	" " 32's, "Funabijin"	,,	225,067
	四十二支雙股	,, 2/42's, "Two Deer"	,,	275.898
植布	Cot	ton Tissues:—		
	十二磅本廢本 色総布	Shirtings, Grey, 12 lb., Native	Æ piece	6.592
	十二磅日本本 色綱布	,, ,, Japan	,,	7.297
	十一磅本色粗布	Sheetings ,, 11 lb.	"	4.473
	十四磅本色粗 布	,, ,, 14 lb.	'37	5.905
	英国漂白布	Shirtings, White, G. B.	1,	9.441
	冲深色花標	, Printed	,	4.107
	十二磅本色粗斜	Drills, Grey, 12 lb.	,,	5.035
	十二磅本色組 斜	Jeans, " "	,,	6.429
	五錢槌直買呢	Satteen Drills, 5-shaft	瑪 yard	0.249
	元素羽綱	Cotton Italians, Black	Æ piece	12.501
学族	Ra	mie:—		
	前二钱武穴白 荒	Ramie, 1st. & 2nd. quality, Hopeh	超 picul	26.292 -
	頭二號阮江蘇	"kiang", ", Yuan-	,	24.450
夏布	瀏溫夏布	Grasscloth, Liuyang	十六正 16pcs.	
東布	十一行旋绞布	Hessian Cloth, 11 oz.	干導 1,000 yds.	i
羊毛	山東終羊モ	Sheep's Wool, Shangtung	担 picul	36.167
滋締	四股毛狀線	Woollen Yarn, Knitting Cords, 4-ply	磅 lb.	2.000
				1

修正上海蕴售物價指數之基價 (數)

Commodities and Their Basic Prices in the Revised Index

-	n 品 及 項 目 modities & Descriptions	É	位 Jnit	基年價格 Basic Price T
	品及其原料類(統)			
	& Manufactures Thereof (cont'd.)	1		1
促競 W	oollen Tissues:—	1		ŀ
裁學優	Serges	15	yard	2.656
直頁呢	Venetians	Ţ	**	3.632
李用登	Melton	1	71	1.616
爾 無錫乾蘭	Silk Cocoons, Wusih w Silk:—	担	picul	150.417
	Raw Silk, White, Rereeled, Ex.1 & 2	1		780.417
高等白胺經	Storm flatures 1	j		1292,500
MAHATA	% 2	1	"	
高等货版框	Raw Silk, Yellow	1	2,	1097.083
人造器 C/150	Artificial Silk Yarn, C/150	百磅	100 lbs.	153.958
網級 Sil	k Tissues:—			1
羂井綱	Crape de Chine	蓦	yard	2,300
六九燥分白碳 椒	Huchow Crape	關	liang	0.886
到魏山東府綱	Silk Pongee, 1st. quality, Shangtung	正	piece	13.408
Ś	金 屬 類	1		{
	Metals	j		j
鋼微 Iro	n & Steel:-	į.		
頭針英治彈生 鐵	Pig Iron, 1st. quality, H. Y. P. Co.	嘲	ton	\$6.2 08
徑四吩孟林四 鋼	Mild Steel Round Bars, 1" in diameter	担	picul	3.360
厚牛吩船螺板	Ship Plates, 1/16" thick	1	3)	4.458
三十號旋辞平 白鐵	Plain Sheets, Galvanized, No. 30		n	11.614
九十磅素馬口鐵	Tinned Plates, Plain, 90 lbscase.	和	CESO	7.692
二吋黑銀管	Iron Tubes, 2" in diameter	叔	foot	0.200
一至六吋法西 釘	Wire Nails, 1"-6"	極	barrel	4.333

修正上海簻售物價指數之基價 (概) Commodities and Their Basic Prices in the Revised Index Numbers of Wholesale Prices in Shanghai (Cont'd.)

	• -	品及項目 odities & Descriptions	取 位 Unit	基年價格 Basic Price 室
	金 1	馬 類 (数) Setals (cont'd.)		
郵鐵	Iron	ı & Steel:	 	
-	十六就就辞白 绍絲	Wire, Galvanized, No. 16	担 picul	5.650
	一至九號洋針	Needles, No. 1-9	萬枝 10,000	14.000
绑	T. C. 紫銅鈴	Copper Ingots, T. C.	担 picul	30.125
€ij.	坎拿大大鍊鉛	Lead, Canada	,,,	14.375
釼	袰亩小珙锅	Tin, Yunan	n	115.958
	党 F	然 料 類 uels & Lighting		į
煤	Coa	d:—		
	抑江白媒	Anthracite, Liukiang	颋 ton	10.427
	東京白菜	" Hongay	21	20.958
	三號松浦塊谋	Cosl, Lump, 3rd. quality, Matsaura	33	7.408
	頭鼓勵田統謀	,, Mixture, 1st, Masuda	,,	9,596
	二强関平屏	,, Dust, 2nd. ,, Kaiping	"	6.885
	頭鐵新紅層	,, ,, lst. ,, Mike	五十捆	8.567
柴	泗安大反白荣	Firewood, Good, Sze-an	50 bdles.	1,253
眹	溫州和吳	Charcoal, Wenchow	担 picul	1.089
模物的	h Mi	neral Oil:—	1	
	类学政治	Kerosene, Socony	箱 Case	3.447
	汽發油	Gasoline	五加侖5gals	2.976
	上等柴油、		顿 ton	30.265
		Candles, 12 oz.	和 CAE6	3.078
火柴	教授安全火柴	Safety Matches	箱 chest	26.167
	建	築 材 料 類	-	
	Bı	uilding Materials		
木材	Tiv	nbers:—		
11044		Softwood, Fir	根 piece	8.282

修正上海蕴售物價指數之基價 (證

Commodities and Their Basic Prices in the Revised Index

	. 4	勿品及項目	草 位	基年價格 Basic
	Com	Unit	Price	
	越	築材料類 (捌)		
	Baildi	ng Materials (Cont'd.)		
木材	Ti	mbers:—	Ì	
	八至廿二呎花 旗松鄉牧科	Oregon Pine, Planks, 8-32 ft.	干方呎 1,000 gap. ft.	49.694
	建松板	Pine Planks, Fukien .	千呎 1,600 ft.	37.667
	黄原栗朝方科	Ash, Yellow, Hewn Log	千方呎 1,000 sup. ft.	70.208
	逐遅抽水器方 舒	Teak, Sawn Log, Siem	"	198.750
石灰	頭鍵蓋點拔灰	Lime, Wusih	発 240 lbs.	1.171
水泥	散新水沼	Cement, Native	福 barrel	3.417
体	三號新放黑磚	Bricks, Black, 9"×41"×21"	茂塊 10,000	65.213
玻璃	三七搭四载比 固原片	Window Glass, Common	百方呎 100 eq. ft.	4.263
華	取别生染	Varnish, Crude, Huichow	担 picul	113.381
漆油		Boiled Linseed Oil	五加侖 5 gale.	3.229
	1	化學品類	1	
	Chemicals	& Preparations Thereof		
磁鼓	六十六度硫酸	Acid, Sulphuric, 66° Bé	箱 case	10.709
輸	純驗	Sods Ash	担 picul	4.242
破缺	文等硫酸色	Ammonium Sulphate, 2nd. quality	百磅 100 lbs.	5.044
綠酸	平 上等核酸鉀	Potassium Chlorate, 1st. ,,	g cwt.	12.021
明礬	這州明礬	Alum, Wenchow	担 picul	3.567
石级	百廿五至百廿 七度巴拉非尼	Paraffin, 125°-127°	, ,,	12.100
人酒		Alcohol	新 case	5.017
資料-	Dye	es:		
	直接壓卻	Fast Indigo, Blue	六南 · i lb.	0.858
	二成藝油	Indigo Paste, 20%	担 pievl	34.833
	有光元	Immedial Black, NNG	. 13	33.500
		• •		

修正上海蕴含物價指數之基價 (独)

Commodities and Their Basic Prices in the Revised Index

	板 Comm	n 品 及 項 目 nodities & Descriptions	毕 位 Unit	基学原结 Basic Price. T
		雜 類		
		Miscellaneous	1	
紙	Pa	per:—		
	毛进紙	Paper, "Mao Pien"	件 bundle	10,700
	25"×44"十七 磅白有光紙	" M. G. Cap, 25"×44", 17 1b.	♣ ream	1.448
	81"×48"三十 七磅報紙	" Newsprinting, 31"×43", 87 lb.	,,,	2.598
植铁油	t Ve	getable Oil:-		
	校油	Vegetable Tallow	起 picul	18,950
	副洪桐油	Wood Oil, 2nd, quailty, Hungkiang.	極 barrel	20.475
馬達治	自 二號馬達泊	Motor Oil, 2nd. quality	英加侖	0.921
豆餅	本版豆鲜	Bean-cake, Local	Imp. gal.	1.528
鉄皮	本嵌小包麸皮	Bran, small sack, Local	担 picul	2.671
牛皮	Hic	les & Leather:—	12 1	
	淡板生黄牛皮	Hides, Cow	,,	36,729
	正一贯生擋紅	Leather, Red, AI	"	
~D. T.	皮		23	48.250
猪縈		Bristles, Black	· »	120.667
猪粉	一二路猪踢	Intestines, Hog's	百副 100 sets	35.732
套鞋	橡皮男套鞋	Rubber Shoe, Men's	打 dozen	18.438
 歷皇		Laundry Soap, 69 Doublets	和 case	4.699
電腦	209 V. 15- 40 W.	Electric Bulb, 200 V. 15-40 W.	百只 100	22.139
器海	三號育花人物菜碗	Chinaware, Bowl, Decorated	打 dozen	2.079
排政是	計 计生的太安 素此面包	Enamelled-ware, Basins, 30 cm., Local	,,	1,650
布傘	廿八 时真结 絲布傘	Umbrella, 28", Cloth	, ,	7.825

^{*}民國十五年全年平均價格 Average price of 1926.

APPENDIX V

修正上海輸出物價指數之基價及權數

Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Export Prices in Shanghai

10000		*	†
物品及項目 Commodities & Descriptions	單 位 Unit	Basic (Price	重数 原銀干 (1000 Ik.事)
原 籽 品 Raw Materials			
良 庄 Agricultural Products		1	- 003
小麥 漢口小麥 Wheat, Hankow	担 picul	4.538	1,009
黃豆 大連黃豆 Beans, Yellow, Dairen	17		69,847
平格 Broad, Hankow	,,,	3.094	
MR KILLS " Ped Tenneming	"	5.176	3,493
亦且 录列2加工 "	**	4.218	1,737
Phy Octivity Walleng Dairen	,,,	3 0 4 6	2,228
Make Jellaman	·, , ,,	29.158	4,236
A葉 頭螺坊子茶葉 Tobacco Leaves, 1st. quanty Shangtung		1 .	
花生 Groundnuts:—		5.754	4,861
State & Groundnuts, in shells, Hat	1- ,,	3.102	1,001
chow th 收件在 Groundnuts, kernels, Shang	z- "	7.853	12,521
tung	1	8,794	5,366
芝荔 窑州白芝麓 Sesamum Seed, white, Bob chow	ı- "	1	
棉花 陝西鄉 Cotton, Raw, Shensi	"	31.074 26.292	35,936 3,676
李藻 阿二號武穴白 Ramie, 1st. & 2nd. qualit	3, "	26.292	3,010
F# Seeds & Cakes:-	1	1	
在海本子 Seed, Rape, Wuhu	13	5.620	
通州松子 ,, Cotton, Tungchow	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.978	
胡菓子 " Lingeed	∦ pie		1 '
本版互群 Bean-cake, Local			
新江毛菜餅 Seed cake, Rape, Chekian	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.98	
格子供粉 " ," Cotton 表皮 本磁外包麸皮 Bran, small sack, Local	- ",	2.67	6,993
勤 敬 產 Animal Products	1	1	1
Shengtang		\$6.16	
羊毛 山東縣羊毛 Breep's Wood, Shangsong 藍 熱揚花蘭 Silk Cocoons, Wusih	"	150.4	, .
意絲 遊長吐 " Wasted, Long	l "	214,8	99 , 9 ¹ 111

修正上海輸出物價指數之基價及權數 (額) Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Export Prices in Shanghai (Cont'd.)

c		品及項目 ities & Descriptions	型 位 Unit		基年價格 Basic Price 室	機 數 [關銀干 兩) (1000 Hk.智)
		物 産 (粮) Products (cont'd.)				
		W1 0			90,500	0.501
牛皮 淡饭			型	picul	36.729 120.667	•
務架 十七				100	(
•	路路	Intestines, Hog's	耳副	100 sets	29,768	
学路 十八宝 学品	至二十分	,, Goat's & Sheep's		27	29,700	1,100
	林 産	Forest Products				
杉木 一袋: 杉木	中瑪麗遠	Softwood, Fir	根	piece	3.282	6,546
並松板		Pine Planks, Fukien	千呎	1,000 ft.	37,687	3,898
	钦 産	Mineral Products				
級 斯登i	英治 平生	Pig Iron, 1st. quality, H Y P. Co.	嘲	ton	36,208	4,717
錫 空南	小碟锅	Tin, Yunnan	担	picul	115,958	9,716
第 湖南	166	Antimony, Regulus, Hunan	梅	ton	449.417	5,183
群	Co	al:			•	
面對	生灰统群	Coal, Mixed, 1st. quality, Fushun	Ì	**	9.579	4,008
超過	集取滑	Cool, Dust, 1st. quality, Fushun		"	7.848	21,195
	牛	産 品				
	Pro	ducers' Goods				
NA		! 				
油		Oil, Bean, Dairen	担	picul	12.963	26,021
大班: 本斯:		,, Groundaut, Local	-	.,	15.510	
	_{生和} 女人鐵榜	Cotton Yarn, 16's, "Chen Teong"	包	bale	138,250	11,443
华籍	Ra	w Silk :—	1			-
	白脏經	Raw Silk, White, Steam filature, 1 & 2	担	picul	1292.500	107,585
高等	英密經	Raw Silk, Yellow, Steam- filature, 1 & 2		27	1097.083	16,252

修正上海輸出物價指數之基價及權數 (点) Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Export Prices in Shanghai (Cont'd.)

	24442 114	moces of Export Prices in	Onguignar	(Cont a.	
		品及項目 ties & Descriptions	阜 位 Unit	基年價格 Basic Price 室	核數 (關與干 阻) (1000 Hk,習)
				i	[
	生	産品(扱)	[1	
	Producer	s' Goods (cont'd.)	j		
	八頭灰粒	Raw Silk, Wild, Filatures	也 picul	530,417	13,865
生漆	歐州生漆	Varnish, Crude, Huichow	,,	113.881	1,185
統	Pe	per:-			,
	毛邊紙	Paper, "Mso Pien"	# bundle	10.700	1,014
	連史紙	" "Lien Shih"	,,	16.250	1,467
和油	平型附油	Vegetable Tallow	担 picul	18.950	1,012
桐油	15249 白桐油	Wood Oil, 1st. quality, 1524°	평 ton	351.004	18,128
五倍	F	Nutgalls, Szechuen	担 picul	19.925	1,485
	淯	費 品		1	Į
	Con	sumers' Goods		j	•
芝衍	終兵船牌題舒	Wheat Flour, "Green Battle- ship"	君 sack	2.335	798
茶	Te	s:			
	珍眉綠茶 屯溪上等	Tes, Green, 1st. quality, "Chun Mee"	担 pical	99.683	13,133
	部門紅茶 上等	Tea, Black, 1st. quality, "Kee Mum"	,,	91.292	12,385
纸徑	金国牌纸道	Cigarettes, "Gold Rat"	子支 1,000	2.453	16,144
杏仁	漢口中貨	Apricot, 2nd, quality, Han- kow	赹 picul	56.125	1,269
龍口家	分 正键鏡口粉	Vermicelli, 1st. quality, Lungkow	,,	19.383	4,030
火惡	金華味葡萄	Ham, Kinhwa	,,	42.710	645
猪油	熟猪油	Lard, Boiled	,,	20.192	1,672
蛋	Eg	gs:			
	无数菲兹亚	Eggs, Fresh, Selected	千街 1,000	15.487	7,602
	製蛋白 塊白 無鉛質	£gg Albumen, Crystals with- out Zinc	担 pical	127.083	7,853
	越近荒 上等 飛苋	Egg Yolk, Dried, 1st. quality	23	67.703	8,213

修正上海輸出物價指數之基價及權數 (班) Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Export Prices in Shanghai (Cont'd.)

7	•	品及項目 ities & Descriptions	單 位 Unit	基年價格 Basic Price T	模 敬 (関銀千 育) (1000 Hk.家)
-,					
	ث	· 最 (續)	'		İ
	Consum	ers' Goods (cont'd.)			
棉布	Co	tton Tissues:—			
	十一磅水色粗 布	Sheetings, Grey, 11 lb.	疋 pieco	4.478	3,084
	十四磅本色祖 布	,, 14 ,,	39 *	5.905	9,963
花邊	十九格抗花袋 空邊	Lace, Hand-made	瑪 yard	0.131	4,517
夏布	倒過更布	Grass-cloth, Coarse, Liuyang	十六正 16 pcs.	55.417	4,771
地毯	九十近叔叔地 毯	Carpets, Hand-made, 99 row	方呎 sq. ft.	1.339	6,490
網級	Sil	k Tissues:—			
	六九燥分白湖 網	Huchow Crape	丽 liang	0.836	18,311
	與對山東府網	Silk Pongee, 1st. quality' Shangtung	Æ piece	13,498	8,699
桒	泗安大反白柴	Firewood, Good, Sze An	五十捆 50 bdles.	1.253	699
跷	溫州和吳	Charcoal, Wenchow	担 picul	1.089	826
磁器	三號育花人物 菜碗	China-ware, Bowl, Decorated	打 dozen	2.079	2,086

[&]quot;民國十五年全年平均價格 Average price of 1926.

提圖十四,十五,十六三年平均稳出價值 Average export value of 1925-27.

附錄六

APPENDIX VI

修正上海輸入物價指數之非價及機數 Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Import Prices in Shanghai

-	££. 1	77. 16 td	邓 丝	15年保证	12 CX
		品 及 項 目 ities & Descriptions	Pait	Prices	(1999) (1999)
	244	취 급 w Materials			
		ricultural Products			
办多	现建美国小多	Wheat, let. gradity, U.S. A.	超 油川	5.150	9,025
恋葉	可忌美国亚克	Tolaseo Learce, 1st. quality, U.S.A.	自發 190 Die	18,829	22,411
秘范	正是禁分类律	Critico, Row, Stelet Will. Fry. C. S. A.	担 pie 1	89.450	81,176
	亦 產	Forest Products	i		
秘	TH	Time-		, ,	
	不是 在 在 在 在 在 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本	Oregon Pine, Flanks, 842 ft	THE.	10.571	3 8/107
	二型花型红色	. "T.G.Riving	• • • •	54.667	5 0,00
	发起可留空服 安赛	Luin, Plank, 6' wide	. •	77298	3 22450
	实实是无方符	Add Tellow, Hern lay	•,	\$9,206	3 ""
	生态也不好方 资	Tesk, Siva Iva Flam	**	128750	106
	激 走]	Mineral Products			ĺ
超	工工工業産業	Copper Logote, T. C.	担拟以	\$11.125	2/193
杂		Lend, Danade	87	14375	1,555
築業	有型岩层岩	Tio io Slobe, Singapore al:—	A7	PHT.000	55.32
		Loimeite, Hangar	卷地	2 136	\$,185
	更是一个	Desi Unil, Ist. quality, Mile	. #3	£200	20,000
	盖	差 品 Sections		,	
公 是	_	ton Tom:-			i.
		Tokan Tangara Fanapija	· a trie		
	至一一班 李正朱比	Tatoo Tana, Bille, To Inst	£. p	mee	3-2

修正上海輸入物價指數之基價及權數(數) Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Import Prices in Shanghai (Cont'd.)

	Index Itue				
***************************************	物 品 Commodit	上及項目 ties & Descriptions	早位 Unit g	基年價格 Basic Price T	梳 数 (與銀 千丽) (1000 Hk.等)
		產 品 (資) rs' Goods (cont'd.)			
椋樑	30/50 六股二 百碼白木紗	Sewing Thread, 39/50, 6-cord, 2003d.	雅 gross	10.776	1,690
毛镍	四股毛絨線	Woollen Yarn, Knitting Cords, 4-ply	磅 lb.	2.000	5,709
人造		Artificial Silk Yarn, C/150 n & Steel:	百磅 100 lbs.	153.958	7,154
網級	110 在四吩孟井四 類	Mild Steel Round Bars, 1" in diameter	11 picul	3.569	3,871
	第二时三角鐵	Angles, 2" wide	,,	3.852	587
	和详元项	Round Iron Shorts or Ends	,,	3.259	1,830
	厚牛吩船鋼板	Ship Plates 1/16 thick	,,	4.458	0.004
	厚一吩船铆板	22 22 22 22	,,	3.783	2,304
	三十號號錄平 白鐵	Plain Sheets, Galvanized, No. 30	"	11.614	3,246
	長塊剪口鐵	Plate Cuttings, Long	,,	3.029	1,102
	九十磅素馬口 紅	Tinued Plates, Plain, 90lbs case	箱 case	7.692	5,522
	二内黑鐵管	Iron Tubes, 2" in diameter	呎 foot	0.203	1,460
	一至六吋法四 釘	Wire Nails, 1"-6"	桶 barrel	4,333	1,2 (3
	十六铁铁矿白 鉛絲	,, Galvanized, No. 16	担 picul	5.650	817
鋼	Cop	pper & Brass:-		Į	
	四吩至一吋货 網條	Brass & Yellow Metal, Bars, ½"-1"	p.	30.323	459
	十二至二十二 銀货網皮	Brass & Yellow Metal, Sheets, No. 12-22	17	34.584	1,038
	十二至二十二 贷款第皮	Copper Sheets, No. 12-22	,,	39.979	427
	一至二十八號 型銅線	,, Wire, No. 1-28	"	89.646	596)
碳物	曲 Mi	neral Oil:)	1
	汽發油	Gasoline	五加命 5 gals.	2.976	5,621
	上等柴油	Liquid Fuel, 1st quality	- Non	80,265	3,381

修正上海轍入物價指數之非價及權數 (納) Commo lities, Their Basic Prices and Weights in the Revised Index Numbers of Import Prices in Shanghai (Con'd)

	index Numbers of import trices in onanguar (com a.)							
		品及項目 lities & Descriptions	彈 位 Unit	基年页格 Basic Price 室	植 教 (開盤 于開) (1000 Hk.軍)			
	# Produce	產 品 (粒) ars' Goods (cont'd.)	:					
確物	ah Mi	neral Oil:—						
	二號思達油	Motor Oil, 2nd. quality	英加儉 Imp. gal.	0.921	2,153			
水泥	日本水泥	Gement, Japan	枥 barrel	5.025	2,187			
玻璃	三七搭四號比 國原片	Window Glass, Common	百方呎 100 sq. ft.	11.263	1,049			
酸	六十六度成酸	Acid, Solphoric, 66°	和 case	10.709	1,163			
鹼	Al	kali:—						
	純鹼	Boda Ash	担 pienl	4.242	2,393			
	烧翰	Caustic Soda	, ,	6.490	860			
破酸	经 大等碳酸烃	Ammonium Sulphate, 2nd quality	百磅 100 lb-	5.044	4,043			
石墁	百廿五至百廿 七度巴拉非尼	Paraffin, 125°-127°	担 pienl	12.199	4,882			
火酒		Alcohol	m caso	5 017	2,217			
染料	Dy	es:—						
	直接證粉	Fast Indigo, Blv e	六南 Alb.	0.358	3,987			
	二成靛油	Indigo Paste, 20%	担 pieul	34.833	12,660			
	育光元	Immedial Black, NNG	,,	33.500	849			
紙	Pa	per:—						
	25" X44"十七 磅白有光紙	Paper, M. G. Cap, 25"×44"	. ф теаm	1.448	4,530			
	31"×43"三十 七磅報紙	Paper, Newsprinting, 31"× 43", 37 lb.	,,	2.593	5,991			
	81"×43"遺林 紙	Paper, M. F. Printing, \$1"× 43", 37 lb.	磅 lb.	0.103	2,629			
	86"×48"牛皮 氨	Paper, Kraft, 36"×48"	, ii	0.083	1,181			
	三十二種港菸	Paper, Cigarette, 82 mm.	盤 roll	1.165	1,933			
椰子	Á	Coconut Oil	担 picul	20.967	668			
熱皮	Lea	ther:—						
	正一號生擒紅 皮	Leather, Red, AI	1)	48.250	5,471			
	B华黑紋皮	" Calf, Black, B	方呎 Eq. ft.	0.655	2,415			

修正上海轍入物價指數之基價及權數 (試) Commoditics, Their Basic Prices and Weights in the Revised Index Numbers of Import Prices in Shanghai (Cont'd.)

	Tudex Mai	moers of Import Prices in	OHBI	gnat	(Cont'd.)	<u>'</u>
		品及項目 ties & Descriptions	D D	位 Init	基学贝格 Basic Price 室	権 数 (既銀 千開1 (1000 日k.%)
	消	費 品				
	Cons	umers' Goods				
来 -	一旦四旦米	Rice, 1st. quality, Saigon	看 2	00 lbs.	9.537	86,070
題紛	紅日常天牌類 粉	Wheat Flour, "Major"	袋	васк	2.276	19,975
茶 莉	弱 文	Tes, Lipton's, Yellow Label, Ceylon	新	case	55.220	2,027
	Sug	gar:		ļ		
	十践 荷蘭赤槽	Sugar, Brown, No. 10, (Duith Standard)	担	picul	6.142	11,349
	二十四號和 多 白糖	gur, White, No. 24 (Dutch Standard)		11	7.513	82,232
	八號車白塘	Sugar, White, "N", Japan		,,	7.319	37,993
ñ¥	Liq	nor:-				-
	太陽中沼	Beer, "Asahi"	箱	0350	9.721	1,226
	白阳地西	Brandy	打	dozen	18.278	1,971
纸型	大英帥紙徑	Cigarettes, "Ruby Queen"	干支	1,000	2.631	17,099
櫾	百五十只花旗 鮮梅	Oranges, Fresh, 150 pcscase U. S. A.	箱	ease	10,932	1,709
泽姿	二百支西洋多 面景	Ginseng, 200 pcscatty	F	caity	53.875	1,244
胡椒	黑胡椒	Pepper, Black	担	picul	46.167	713
孤心	分 美国流心粉	Macaroni, U. S. A.	箱	caee	8.683	952
牛乳	老牌原乳	Milk, Condensed	1	11	18.708	1,891
代乳	7	Infant Food	1	"	30.500	548
奶油		Butter	1	17	59.000	841
燕窩	馬昆中等毛燕	Bird'e Nest, Black, Malaysia	斤	catty	4.808	1,060
干貝	百節中粒	Compoy, Dried, Japan	担	picul	106.262	1,437
海登	日本大統十帝 登	Bicho de Mar, Black, Spiked, Japan		n	170.833	2,301
海郡	根室设存	Seaweed, Long, Japan	}	,,	4.925	2,864
棉布	Co	tton Tissues:-	1		l	1 1
	七磅本色原布	Shirtings, Grey, 7 lb.	涯	piece	4.583	5
	十二磅日本本 色名布	, 12 lb., Japan		,,	7.297	30,149

修正上海輸入物價指數之基價及權數 (原) Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Import Prices in Shanghai (Contd.)

			D-1126-111	(Com u.	,
		品及項目 ties&Dascriptions	界 位 Unit	基字页格 Basic Price T	植 数 (関级 千雨) (1000 Hk.*)
		交易(数)			
	Consume	ers' Goods (cont'd.)			
检布	Cot	ton Tissues:			
	十四磅水色烈 布	Shirtings, Grey, 14 lb.	疋 picce	5.527)	
	英國際自布	" White, G. B.	93	9.4417	18,617
	日本源白布	" "Japan	17	8.767 }	10,011
	冲染色花標	" Printed	,,	4.107	9,158
	十二磅水色網	Jeans, Grey, 12 lb.	17	6,429	10,438
	元色細斜	"Black		5.725	7,132
	五极棉面到掘	Satteen Drills, 5-shaft	W yard	0.249	23,529
	梯揽互叙	Cotton Lestings, Dyed		0.528	5,754
	元素羽櫚	" Italians, Black	Æ picco	12.501	4,784
	元素泰四极	, Venetians, Black	평 yard	0.694	2,087
	裁鍊府網	" Poplins, Striped	,,	0.517	2,283
	元素尺六統	,, Velvets, Black	,,	0.688	1,220
草布	十一行旗盘布	Hessian Cloth, 11 oz.	子灣 1,000 yards	149.208	1,057
藍袋	二磅中新料缸 数	Gunny Bags, New, 21 1b.	干隻 1,000 pcs.	591.667	1,337
呢說	Wo	ollen Tiesues:-			
	海平鐵	Serges	W yard	2.656	5.330
	華達呢	Gabardines	11	3.692	798
	直頂帽	Venetians	,,	3.632	3,444
	姿用登	Melton	,,	1.616	2,116
毛毯	四磅水压贮藏	Woollen Blankets, 4 lb.	條 piece	8.031	1,016
模数	Sil	k Tissues :	1		l
	元首束線	Cotton & Silk Satir, Black Japan	₩ yard	0.484	824
	點井綱	Crape de Chine	,,	2.300	826
祥舒	一至九號洋針	Needler, No. 1-9	萬枚 10,000	14.000	1,044
			l	l .	l

修正上海輸入物價指數之基價及權數 (納)

Commodities, Their Basic Prices and Weights in the Revised Index Numbers of Import Prices in Shanghai (Cont'd.)

Index Introduction of Employer access			
物品及項目 Commodities & Descriptions	取 位 Unit	基字页格 Basic Prica T	植 飲 (區銀 千開) (1000 Hk.聖)
消 及 品 (資) Consumers' Goods (cont'd.) 悲谊 Kerosene:—			
美字集油 Kerosene, Socony 亞細亞裝油 ,, A. P. C.	箱 case	3,447) 3,162}	55,335
火柴 細胞安全火柴 Safety Matches	新 chest	26.167	1,687
香皂 大鐵瓷香皂 Toilet Soap, Sandal	打 dozen	2.278	1,693
香水 招香水 Perfume Water, Extract Sandal	,,,	6.273	3,177
乾片 六吋乾片 Dry Plate, 6"	,,	1.393	981
股燈泡 200 V. 15 Electric Bulb, 230 V. 15-40 W. 49 W.	百只 100	22.139	1,024
磁器 七吋整邊盆 Dinner Plate, 7", Green Edge	打 dezen	1.171	2,008
指磁器 三十生的色 Enamelled-ware, Basins, 30	,,	2.026	1,031
傘 二十八时黃結 Umbrella, 28", Cloth 絲布傘	,	7,825	1,262

^{*}尺因十五年全年平均價格 Average price of 1926.

[;]民國十四,十五,十六三年平均稅入淨價值 Average net import value of 1925-27

附錄七 APPENDIX VII

改算上海 躉售物 價指數表*

Table of the Recomputed Index Numbers of Wholesale Prices in Shanghar

民國二年二月=100 February, 1913=100

4-			各	Ħ	指	般			
/ 類			Ly		Gı	oups			總指數
89		la 0.0	紡術品及			*** 50	化學品		General
牟	松 食	其他食物	北原料 Textile	金 恩	燃料	建築	Chemicals	雑 類	General
4 /		Food Products &	Pibres &		Feel & Lighting	Building	& Pre-	Miscel- lancous	Incex
N N	Cereals	Provisions	Manufac- tures	Metals	Lighting	Materials	Thereof	Isheoma	
		<u> </u>	Thereof			<u> </u>			
				*100		165.7	232.3	136.2	150.8
民国十年 1921 十~年 1922	119.4 136.6	128.1 127.8	141.5 142.3	148.8 131.8	157.7 152.9	154.6	171.5	127.7	142.2
十二年 1923	142.7	147.4	151.2	153.8	149.2	152,5	156.5	129.1	147.1
十三年 1924	137.7	149.8	147.0	143.3	142.1	135.5	147.5	125.1	141.1
十四年 1925	150.6	149.8	146.0	150.1	144.4	127.2	146.4	172.4	143.2
十五年 1926	165.3	156.9	156.7	154.9	145.1	132.0	143.7	131.0	144.2
民國十年 1921			****	1401	****	163.5	251.6	136.9	148.4
一月 Jao. 二月 Feb.	105.2 1 ₀ 7.0	128.0	129.3 132.7	146.1 151.2	164.8 166.0	166.6	267.1	138.3	152.2
三月 Heb. 三月 Mar.	108.4	130.5 131.2	135.4	147.8	167.4	162.8	272.5	138.8	153.1
四月 Apr.	103.4	127.3	136.6	156.9	167.7	161.3	258.9	138.4	152.7
五月 May	117.0	126.0	137.4	155.8	161 0	161.5	250.1	137.7	151.7
六月 June	120.1	126.1	142.6	154.2	158.6	165.6	237.6	136.0	152.0
七月 July	121.3	126.0	145.5	151.0	154.9	165.5	228.6 228.1	137.1 135.2	151.4 152.6
八月 Aug.	128.5	129.9	146.6	148.6 147.1	154.5 150.9	171.2 170.0	208.5	136.4	152.2
九月 Sept.	132.4 127.8	129.9 126.7	151.1 146.7	145.4	149.6	168.6	199.6	132.2	147.9
十月 Oct. 十一月 Nov.	126.7	128.3	146.1	143.5	148.8	168.9	196.7	133.2	147.8
TEJI Dec	120.1	126.7	148.2	140.7	148.7	163.0	193.8	134.7	147.3
民國十一年 1922	12020	1201							
→ A Jan.	135.9	125.3	143.2	138.3	149.5	163.2	189.4	129.4	145.5 146.5
二月 Feb. 三月 Mar.	143.4	125.1	147.6	139.9	148.9	162.2	183.7 182.8	130.7 131.3	146.8
三月 Mar.	147.7	127.2	148.0	139.0	147.8	157.2 153.6	180.5	132.5	145.1
四月 Apr.	145.2	125.9 125.1	144.3 142.7	137.3 132.2	149.1 154.1	156.2	175.5	128.9	143.1
五月 May 六月 June	139.6 134.8	126.4	142.7	126.6	153.9	152.4	165.9	125.I	140.2
七月 July	136.8	131.2	140.8	125.5	152.6	152.2	164.6	126.4	140.7
AA Aug.	131.5	128,2	138.0	127.0	150.2	151.1	165.2	123.7	138.6
J.J. Sept.	132.9	125.6	134.0	126.1	150.0	151.6	160.8	123.7	137.0 138.7
-PH Oct.	130.7	126.7	135 9	126.1	153.5	155.1	164.7 162.4	126.2 126.8	140.6
十一月 Nov. 十二月 Dec.	127.0	132.1	143.6	129.1	16).8 164.6	148.3 152.2	163.0	127.6	143.5
十二月 Dec.	133.6	134,3	146.8	134,6	104.0	102.2	100.0	121.0	1
民國十二年 1923	140.9	138.1	151.1	139.0	160.9	153.7	158.0	128.6	145.5
→ A Jan. = A Feb.	147.1	144.0	154.2	149.4	157.0	155.7	159.2	130.4	148.9
· El Mar.	142.0	150.2	149.5	158.9	152.6	156.5	165.0	133.7	150.1
四月 Apr.	142.8	146.9	147.5	157.1	152.9	158.9	161.3	132.2	148.8 147.1
五月 May	146.6	147.8	148.9	157.4	149.5	150.9	152.2 149.7	131.0 127.4	145.3
六月 June	146.0	145.8	149.7	154.2	148.0 149.4	147.8 148.5	150.7	129.3	145.4
七月 July	145.1	144.5	149.8	152.6 153.2	146.7	149.7	145.7	129.3	144.1
八月 Aug.	144.0 147.0	146.1 150.4	145.9 148.0	162.5	145.7	153.3	152.5	128.5	147.3
九月 Sept. 十月 Oct.	140.6	148.9	152.3	156.4	143.8	151.7	157.2	126.2	146.6
十一月 Nov.	135.7	153.4	157.3	152.7	142.3	153.3	164.3	126.3	148.3
十二月 Dec.	134,9	152.3	160.4	152.2	141.8	150.2	162.5	126.2	147.9
	<u> </u>	<u> </u>				!			

改算上海盛售物價指數表(物)

Table of the Recomputed Index Numbers of Wholesale Prices in Shanghai (Cont'd.)

民國二年二月=100 February, 1913=100

日本 日本 日本 日本 日本 日本 日本 日本										
大学 大学 大学 大学 大学 大学 大学 大学	\ Am			各	類	指	數			
日本 日本 日本 日本 日本 日本 日本 日本	\ #II			B7		G	roups			
中国	Pat .		,	4449.07 77	1	-	T	,	, 	總指数
R国十三年 1924	/ 43		## All (0-85)	加强而及			建	4.巫品		
R国十三年 1924	华	租工	Ulper	AM A	金 凪		发表		雑 類	General
Page Provision Interest	· /		Food Pro-					& Pre-	Misce!-	Index
日本 1924 130 136 151.9 156.7 149.3 139.3 152.2 150.2 125.1 146.5 136.8 136.8 136.8 136.8 137.7 146.5 153.5 125.9 145.3 126.9 146.8 137.7 146.5 153.5 125.9 145.3 126.9 146.8 137.7 146.5 153.5 125.9 145.3 126.9 147.8 148.9 150.0 150.3 138.9 141.2 148.2 150.1 148.8 150.1 148.9 146.8 141.2 148.2 148.2 148.3 148.9 146.8 141.2 133.8 141.1 122.6 140.9 147.0 140.1 140.2 133.8 146.6 125.3 139.8 141.9 141.8 139.1 141.8 139.1 142.9 144.0 138.8 139.9 122.2 145.9 124.9 130.8 141.8 139.1 142.8 139.8 122.2 145.9 124.9 130.8 141.8 139.8 139.2 145.8 139.8 122.2 145.8 139.8 141.8 14	J. F.C.	Cereals	Provisions	Manufac-	Metals	Lighting	Afatarista		lancous	
日本			1 12 12 12 12 12				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Increof		
日本										
三川 Fob. 1378 153.5 154.1 151.4 137.7 146.5 153.5 125.9 145.2 148.5 152.1 148.5 152.1 148.5 152.3 152.6 130.2 142.2 142.3 148.5 152.3 148.5 150.0 150.3 138.0 141.2 148.2 148.5 150.0 148.5	民國十三年 1924		1							Ì
世別	—H Jan.]									146.5
Page Page	二月 Feb.					137.7			125-91	145.3
元月 May 181.9 148.0 146.0 147.6 141.2 137.3 147.1 122.6 140.9 147.8 141.9 141.9 141.0 140.6 158.5 159.9 138.8 146.6 125.3 139.8 141.9 141.9 141.0 140.6 158.5 159.9 138.2 147.8 124.9 139.0 元月 May 14.1 152.6 139.2 131.5 141.0 122.8 147.8 124.8 139.0 141.6 134.8 139.8 128.2 147.8 124.8 139.0 141.6 134.8 139.8 128.2 147.8 124.8 139.0 147.9 149.0 142.7 142.9 139.0 145.6 127.4 143.9 122.5 143.0 122.6 149.1 141.4 153.3 149.5 139.9 145.6 127.4 143.9 122.4 159.0 149.1 141.4 153.3 149.5 139.9 145.6 127.4 143.9 122.5 149.0 122.6 149.1 141.4 153.3 149.5 139.5 145.6 127.4 143.9 122.6 149.1 149.1 149.1 149.1 122.5 139.5 126.0 149.1 149.1 149.5 149.1 122.5 139.5 126.0 149.1 149.1 149.5 149.1 149.5 149.1 149.5 149.1 149.5 149.1 149.5 149.1 149.5 149.1 149.5 149.1 149.5 149			148.5	152.3			1423	150.9		142.9
## 15 Junie 1818。1819。1819。1819。1819。1819。1819。1819		133.4	148.0		150.3				127.3	142.2
+ 元月 July 197.3 144.0 136.6 138.5 139.6 138.2 147.8 139.0 124.8 139.0 139.0 147.8 148.0 148.0 148.0 149.1 149.0 149.1 149.0 149.1 149.0 149.1 149.0 149.1 149.0 149.1 149.0 149.1 149.0 149.1 149.0 149.1 149.0 14	All May			146.9				147.1		
大川 Aug. 大川 Sept. 141.3 141.6 144.6 134.8 139.8 129.2 147.8 146.3 121.8 139.4 十川 Oct. 441.4 152.6 139.2 131.5 141.0 129.8 146.3 125.0 139.0 十一月 Nov. 441.7 153.3 149.5 149.6 145.6 127.4 143.0 129.8 139.1 十一月 Nov. 441.7 153.3 149.5 145.6 127.4 143.0 129.4 139.1 140.6 148.4 148.8 148.5 149.1 126.5 139.5 126.0 139.5 140.8 149.8 149.8 149.1 126.5 139.5 126.0 139.5 140.8 149.8 149.8 149.1 149.1 120.5 139.5 126.6 149.8 140.8 149.8 149.8 149.8 149.8 149.1 147.1 133.3 144.0 126.3 149.1 141.8 144.8 147.8 154.2 146.7 137.5 127.1 142.9 123.4 149.8 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9 141.9		131.8			140 I			146.6		139.8
### ### ### ### ### ### ### ### ### ##	T. 1 1 1112						132 2	1459		
+ 1/1 Oct.						1398	128.2		124.8	
+	九月 Sept.									
148.5							127.4			
日本 1925 1925 1925 144.0 144.2 156.2 145.0 129.4 145.5 126.6 191.7 191.8 191.6 191.7 191.8	T-I Nov.									
— II Jan. 130.8 141.0 144.2 156.2 148.0 129.4 145.5 126.6 141.8 141.1 141.1 133.3 144.0 129.3 141.1 141.0 1	T=J Dec.	140.6	148.4	143.8	148.5	149.1	126.5	139.5	126.0	139.8
三月 Feb. 187.9 146.0 145.8 154.1 147.1 138.3 144.0 126.3 144.1 144.6 147.3 154.2 146.7 127.1 122.0 123.4 140.6 127.7 141.9 145.0 145.5 144.8 147.8 148.8 146.8 147.2 148.8 146.8 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 147.8 148.6 126.1 149.8 148.6 14	民國十四年 11/20		i 1							
三月 Mar. 144.1 144.6 147.3 154.2 146.7 127.1 142.9 123.4 140.5		139.8	149.0			148.0	129.4		126.6	1:11.6
Fiff Apr. 156.5 144.8 147.8 146.8 127.9 140.6 124.7 141.2 145.6 150.2 146.8 147.2 148.5 125.4 146.7 134.0 144.5 147.7 141.9 145.6	트를 Eeb.		146.0							
### ### ### ### ### ### ### ### ### ##										
### June 154.0 151.1 1.15 8 148.4 130.5 125.5 145.8 136.4 145.6 北月 July 169.0 161.7 148.2 147.0 143.0 125.6 169.1 137.8 146.7 北月 Aug. 152.6 156.1 149.1 147.8 146.2 126.0 163.8 136.3 146.7 北月 Nov. 151.9 148.7 148.6 142.5 126.1 149.3 146.7 北月 Dec. 151.9 148.7 148.6 142.5 126.3 143.3 138.6 144.8 北月 Dec. 151.9 148.7 148.6 142.5 126.3 143.3 133.6 141.8 北月 Dec. 151.9 148.7 148.0 149.3 141.1 126.3 141.5 139.5 141.8 北月 Taph	Pan Apr.									
1.1						148.5				
A	All June					139.5		145.8	156.4	
サ州のセ、150.8 151.9 145.1 145.6 148.6 142.5 126.5 149.3 188.7 144.6 149.5	-Eli ania					143.0			137.8	148.8
十月 Oct. 151.0 148.7 145.6 148.6 142.5 126.5 126.5 142.5 126.5 143.8 133.6 141.8 十二月 Dec. 152.5 146.8 149.1 149.3 141.1 126.3 138.3 138.6 141.8 日本日 中海 1926 152.5 146.8 149.1 149.3 141.1 126.3 145.5 138.0 134.2 140.8 二月 Fab. 150.1 155.2 140.4 151.5 124.6 151.5 124.6 151.5 124.6 151.5 124.6 151.5 124.6 151.5 124.6 151.5 124.6 151.5 124.6 131.0 149.2						146.2		153.8	136.3	
十二月 Nov. 149.4 146.7 143.6 159.3 142.6 126.3 143.3 133.6 144.6 142.1 149.1 149.1 149.1 149.1 126.3 159.5 134.5 144.6 149.1 149.1 149.1 126.3 159.5 134.5 144.5 149.1 149.1 149.1 126.3 159.5 134.5 144.5 149.1 149.1 155.2 140.4 151.5 134.6 131.0 142.2 150.4 142.7 151.6 149.1 155.2 140.4 151.5 134.6 131.0 142.2 150.4 142.7 151.6 149.1 152.4 143.5 151.6 149.1 152.4 143.5 151.6 149.1 152.4 143.5 151.6 149.1 152.5 140.4 151.5 151.6 151.5 1	J. H Sept.		151.9				126.1			144.9
1 1 1 1 1 1 1 1 1 1	TAN 081					142.5		145.4	136.8	
R操計 77年 1926	T-H Nov.		146.7				126.3			
— II Jan. 154.6 150.3 140.1 153.0 187.1 120.3 141.5 130.7 141.2 — II Feb. 150.1 155.2 140.4 151.5 124.6 151.0 142.2 150.4 142.7 — III Mar. 164.0 154.0 157.8 152.7 141.1 128.0 142.1 132.4 143.0 III Jap. 166.1 150.3 137.7 151.8 141.6 120.0 142.6 152.0 152.9 143.6 142.1 132.4 143.0 III Jap. 162.7 147.7 133.3 140.0 145.0 153.2 141.8 131.6 141.5 — III Jap. 160.0 155.3 134.8 141.7 142.0 150.4 141.2 128.4 141.5 — III Jap. 160.0 155.3 134.8 141.7 142.0 150.4 141.2 128.4 141.5 — III Jap. 160.0 155.1 134.3 148.2 146.7 132.4 146.6 127.5 141.8 — III Jap. 160.0 155.1 134.3 148.2 146.7 132.4 146.6 127.5 141.8 — III Jap. 160.0 155.1 134.3 148.2 146.7 132.4 146.6 127.5 141.8 — III Jap. 160.4 157.8 155.1 153.2 145.8 132.2 141.7 120.0 141.4 126.1 141.2 — III Jap. 160.4 157.8 155.1 153.2 145.8 132.2 141.7 120.0 141.4 126.1 141.8 — III Jap. 160.4 157.8 155.1 153.2 145.8 132.2 141.7 120.0 141.5 150.1 143.0 — III Jap. 160.4 157.8 155.1 153.2 145.8 132.2 145.8 132.2 145.8 132.2 145.8 132.2 145.8 132.2 145.8 132.8 148.8 141.7 142.8	HEILPH TOO	152.5	146.8	149.1	149.8	141.1	126.3	159.5	131.2	140.8
二月 Feb. 150.1 155.2 140.4 151.5 134.6 131.0 149.2 150.4 142.7 三月 Mar. 164.0 154.0 137.8 152.7 141.1 123.0 142.1 132.4 143.0 三月 Apr. 166.1 152.3 157.7 151.8 141.6 129.9 149.6 132.9 143.4 元月 May 162.7 147.7 133.3 149.9 145.0 138.2 141.8 131.6 141.5 元月 July 160.9 153.7 134.7 143.2 146.7 139.4 141.2 123.4 141.2 124.6 132.9 143.4 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.2 141.7 142.9 141.8 131.6 141.2 141							****			
EJR Mar. 164.0 154.0 157.8 152.7 141.1 128.0 149.1 133.4 143.0 149.1 133.4 143.0 149.1 143.0 149.1 133.4 143.0 149.1 149.0 149										
EHH Apr. 166.1 155.3 137.7 151.8 141.6 129.9 149.6 132.9 143.4 141.6 132.9 144.8 131.6 141.5 141.7 142.9 153.2 141.8 131.6 141.5 141.7 142.9 153.2 141.8 131.6 141.5 141.7 142.9 153.2 141.8 131.6 141.5 141.5 141.5 141.5 141.2 123.4 141.2 123.4 141.2 123.4 141.2 123.4 141.2 123.4 141.2 123.4 141.5 141			155.2							
括月 松本y 162.7 153.3 149.9 145.0 158.2 141.8 131.6 141.5 157.7 158.3 141.7 142.9 150.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.2 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 159.4 141.3 1	-ii orac.		1940							
## ## ## ## ## ## ## ## ## ## ## ## ##	월집 신만	166.1		137.7	151.8		129.9	142.6		
+H July 160.0 153.7 134.7 143.2 140.7 133.4 141.6 127.5 144.8 7.J. Au. 163.9 156.1 134.3 148.2 141.7 129.9 144.4 126.1 144.8 7.J. Rept. 166.4 157.8 135.1 153.2 145.8 182.2 141.2 126.7 143.0 7.J. Rept. 166.4 157.8 135.1 153.2 145.8 182.2 141.2 126.7 143.0 7.J. Roy. 174.8 163.0 137.7 175.7 154.7 138.5 151.1 135.3 145.8 145.9 145.0 152.3 145.8 145.0 1	THE DITTY								131.6	
□ Aug. 169.9 156.1 134.3 148.2 141.7 129.9 144.4 126.1 144.2 				134.8		142.9	150.4		128.4	
J.H. Sept. 166.4 157.3 155.1 153.2 145.8 189.2 141.2 126.7 145.0 H.H. Oct. 181.3 163.1 136.8 167.5 146.8 134.2 147.2 132.3 148.5 HJ. Nov. 174.8 169.0 137.7 175.7 154.7 135.1 151.1 135.1 151.1 135.1 151.1 153.1 151.8										
+ J Oct. 181.3 163.1 136.8 167.5 146.8 134.2 146.9 132.3 148.5 1- J Nov. 174.8 169.0 137.7 175.7 154.7 138.5 151.1 135.1 151.8							120.0			
+- J Nov. 174.8 169.0 137.7 175.7 154.7 138.5 151.1 135.1 151.8										
7-17 D . 1504 1070 1086 1507 1084 1044 1044 1040	TH US.									
T_H Dec. 172.1 101.2 151.9 170.7 162.6 140.5 150.2 137.4 152.1	T-1 Nov.	174.8	109.0							
	T_H Dec.	1/2.1	107.2	137 9	170.7	102.6	140.5	150.2	137.4	152.1

^{*}按簡單算備平均之資捐數,結竊於民國八學九月,此次改算簡單幾何平均因八學九月至九 學九月之資料有狀獨處,被雖自民國十學一月。

The old series started from September, 1919. For the recomputed index numbers, we have been obliged to begin from January, 1921 owing to the absence of certain price data during the intermediate period.

改算上海蓝售物價指數表(報

Table of the Recomputed Index Numbers of Wholesale Prices in Shanghai (Cont'd.)

民国二年二月=100 February, 1913=100

				·					
\ 颖			各	類	指	銰			!
			Br		G	iroups			總指数
∖ 別	r	I	紡織品及	i — — —	1		1		端指蚁
••	拉拉	其他食物	共原料 Textile	金瓜	燃料	建築材料	化學品	雜類	General
华人	131, 34	Food Pro-	Textile Fibres &	22 /20	Fuel&	材料	Chemicals	Miscel-	
E4.	Cereals	1 ducts &	Manufac-	Metals	Lighting	Building	& Pre-	lancous	Index
200		Pravisions	tures			Materials	Thereof		İ
			Thereof				!	<u></u> -	<u> </u>
民國十三年 1924		l .				i			1
- H Jan.	1364	151.9	156.7	149.3	139.3	152.2	159.2	125.1	146.5
二月 Feb. 三月 Mar.	137 8	-153.5	154.1	151.4	137.7	146.5	153.5	125 9	145.3
三月 Mar.	134 2	1485	152.3	152.G	136.2	1423	150.9	125.1	142.9
四月 Apr.	133.4	148.0	150.0	150.3	138.0	141.2	148.2	127.3	142.2
五月 May	131.9	148.0	146.9	147.6	141.2	137.3	147.1	122 6	140.2
六月 Jane	131.8	150.1	147.0	140 I	140.2	133.8	146.6	125.3	139.8
-LA July	137.3	144.9	146.6	138.5	139.9	132 2	1459	124.9	139.0
八月 Aug.	141.3	1480	144.6	1348	139 8	128.2	147.8	124.8	139.4
九月 Sept.	142.1	152.6	139.2	131.5	141.9	129.8	146.3	125.0	139.0
+Jl Oct.	141.4	153.3	140.5	136.9	145.6	127.4	143.9	125.4	139.1
十一月 Nov.	143.7	150.2	1421	137.5	155.7	128.2	140.9	126.0	140.1
十二月 Dec.	140.6	148.4	143.8	148.5	149.1	126.5	139.5	126.0	139.8
民國十四年 1925		ì			•	i	1 :		
J] Jan.	139.8	149.0	144.2	156.2	148.0	129.4	145.5	126.6	141.6
二月 Feb.	137.9	146.0	145.8	154.1	147.1	133.3	144.0	126.3	141.1
ΞŊ Mar.	144.1	144.6	147.3	154.2	-146.7	127.1	142.0	125.4	140.8
PIJI Apr.	156.5	144.8	147.8	148.8	146.8	127.9	140.6	124.7	141.2
#IJ May	158.0	150 2	146.8	147.2	148.5	125.4	146.7	134.0	144.0
六月 June	154.0	151.1	1458	148.4	139.5	125 5	145.8	156.4	143.6
ti)i July	160.0	161.7	148.2	147.9	143.0	155.6	160-1	137.8	148.8
AH Aug.	152 6	156.1	149.1	147.8	146.2	126.0	153.8	136.3	146.7
九月 Sept.	150.8	151.9	147.1	1489	145.6	126.1	149.3	186.7	144.9
+JI Oct.	151.9	148 7	1456	148.6	142.5	126.5	145.4	186.8	143,4
十一月 Nov. 十二月 Dec.	149.4	146.7	143.6	150.3	142.6	126.3	143.3	133.6	141.8
民國十五年 1926	152.5	146.8	149.1	149.3	141.1	126.3	159.5	134.2	140.8
-1 Jan.	154.6	150.3	140-1	153.0		126,3			
= I Feb.	159.1	155.2			137.1	131.0	141.5	130.7	141.2
Ell Mar.	164.0	154 0	140.4	151.5	134.6	128.0	142.2	130.4	142.7
四月 Apr.	166.1	153.3	137.8	152.7 151.8	141.1 141.6	129.9	142.1	132.4	143.0
III May	162.7	147.7	137.7 133.3	149.9	145.0	188.2	142.6 141.8	132.9 131.6	143.4
去月 Jue	161.1	155.3	134.8	141.7	142.0	150.4	141.3		141.5
七月 July	160.0	153.7	134.7	143.2	142.0	130.4	141.3	128.4 127.5	141.2
All Aug.	160.9	156.1	1343	148 2	141.7	120.9	141.4	126.1	141 3
九月 Sept.	166.4	157.8	135.1	153.2	145.8	132 2	141.2	126.1	141.2
于月 Oct.	181.3	163.1	136.5	167.5	146 8	134.2	146.9	132.3	143.0
+→F Nov.	174.8	169.0	137.7	175.7	154.7	133.5	151.1		148.5
+= H Dec.	172.1	167.2	137 9	170.7	162.6	140.5	150.2	135.1 137.4	151.8
		1	2010	1.0.1	102.0	110.0	100.2	137.4	152.1

*按簡單算衡平均之落指數,始編於民國八學九月,此次改算簡單幾何平均因八學九月至九學九月之資料有缺預處,故鄉自民國十學一月。

The old series started from September, 1919. For the recomputed index numbers, we have been obliged to begin from January, 1921 owing to the absence of certain price data during the intermediate period.

附 錄

	修正上海蒐售物價指數圖表 1
==	修正上海輸出物價指數圖表
≓	修正上海输入物價指數閱表 、 (
四	修正上海蒐售物價指數之基價1
乖	修正上海輸出物價指數之基價及權數1
六	修正上海輸入物價指數之基價及權數 2
4:	改

數之公式,亦與此同(註十二),發暄教授列為第九〇〇一公式云(註十三)。

此式為脾思Dun 關克納 Falkner 及楊格 Young 諸氏所資許,本會所編上海生活發指

(岩十川) 《始語 Prof. I. Figher: The Making of Index Numbers, Appendix V, p. 487.

(註十二) 参照经发者上海生活变指数第十八頁。

所栽輸 蓋本指 加權 數之結 異之意味 efficients者。 未 則 一為三,次為二,又次為一。其加權平均應為 I = 150×3+120×2+175×1 丽 **盐**胞合者 代表市價 公式之謹嚴 係數, 特事實 有 出入之價值為根據,故 PoQo之 P 所代表者爲關價。今 數之物價以市價為根據,故 Po 之 P 所代表者為市價,但 徵 果 亦 ٥ , 以W為權數之代表。其公式如下: , 1 亦以此 在公 上 不能 之中 本指數之加權資料,為民國十四,十五,十六三年間輸出入之平均價 例 雖非隨意估計者所可比擬,然旣與 如 , 般所稱 (有三種比價於此,一為一五〇,次為一二〇,又次為一七五,其權數 與 與 式上例以 W', W', W''...... W" 代表之,以表示奥前列公式之 PQ有大同小 亦 F0, W, + 加權 有 Q 相乘之積,自不能與代表關價之 P與 約略估計各種物品之輕重程度,以分配「加權係數」 Weighting Co-:為加權算術平均武者,往往因資料之缺而不全,未必盡 總合比率式之結果一致者以此;所謂 $\frac{P_1''}{P_0''}$ W" + $\frac{P_1'''}{P_0'''}$ W"+...... $\frac{P_1^n}{P_0^n}$ Wn W' + W" + W"'+..... Wn 前 列 加權算術平 2相乘之積彼此 加權算術 市 價 ·均式微 旣 本指數之權 奥 關價互 有異同, 4 均式 相 等。本 数以 有 於 故 出入 韶 本 駉 位, 酌 指 此項 如 量 Ŀ 指 , 册

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錯 爾 , 主 製 則 丽 價 参 誤 要 本 所 關 至 ij Ž 價 指 礙 物 鰏 我 四 所 數之 及於 指 딞 旣 分 國 騅 之一 不 数 剔 採 足 用 稅 供 可 指 不 用 用 也 威五 兖 區 楄 数之影響, 明日 域之 , 媏 製 由 指 惟 分之一者(註十二)。 兩害相 遼 黄 於 數. 有 之用 取 花 膃 此 不過二十分之一,而物價之錯誤, , 材 之威。安奇沃斯教授Prof.H.Y. Edgeworth曾 o 於市 交通機 者 至 於 ,大概 現 價 , 行 然取材 關 劚 册 於 備 從 於 僅 最 權,則取其 , 市 出 有 稅 版 年 딞 價 Ż 運 報 , 範 則 延 季 不 輕 , 報 圍 , 固 能 , , 所及於 意 此 近 應 īffi 用 我 中 頃 從 墨 加 國 事 雞 價 權 關 指 ۰ 有 稅 例 數之 品 總 價 岩 刊 說 取 却 合 行 所 影 比 IJ 明 材 月 居 李 不 樫 權 於 報 炒

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掻 所 牽 第 不 可 指 見 如 部 動 代 或 於 其 數 用 加 分。 全 時 關 之 所 欋 部之影響 採 算 , 册 公 此 術 爲 先 者 式 則 權 **李** 從 加 數 實 坞 及 之公式 , 者 關 權算術平 價 寫 叉常 , 求 册 加 75 得 權 所 能 輸 載 比 算 均式於本指數較為適合之關鍵 保持輸 出 之數 價 術 入之 215 人量單 故 绉 P₀ Q₀ P₁ X P₀ Q₀ 出入貿易上固 價 指 數之結 位 位 0 而非 奥市 此式 其 果 場 IJ 數 買 輸 , 有與 不致 (寶單 有之比例, 盘 出 , አ 因 ż 本 位 故 指 各 不 價 標 所在 項物 數之資料 準 同 偛 使 品 者 為 各 品

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参照政谊者 The Parchasing Power of Money; 2nd. edition, fost-note on p. 406

高於 使 之 就 家 闖 其 所 不待 今 為 價 在 價 Ħ. 從量稅品與從價稅品而言,則從量稅品之關價又不及從價稅品較爲確實(註十)。然所 • 去 物價 商 年 格 Ň 此猶 美棉 定時 Z 年 言 平 多遜色 , 而 , 卽 本身上之變動部分,熟為輸出入貨物品質上之變動部分,在指數上固無從辨 o 荺 田登留,未能规务党全禁缺。」签語,即指發入物品之從是征税者而言。 王我因出口新税则形於今年六月一日施行,義時 二錢是。歷學周飛就有「按期征稅之貨價,僅能以貨單所開者,作為統計標準,因而人之正確貨單,淳閱無法取開,故原 税则之間時佔何征百分之幾者,為從何稅;其以預道,容務等數並為單位依據征稅者,則為從重稅,如棉花每担征銀一兩 落。 則 期 指關價之確實可信者而言也。若我國之關價,較諸國外貿易統計完備之 之平均 為美 惟 丽 其價 以內 物 得 。大抵就輸出入物品而言, 故 價 棉 , 1品質 क्त 由 偛 指 故 每擔之關 數以 必較大, 較諸 關價編製之指數 價 相 ,及其轍入數量皆與去年相等 同 市 涧度長時 令 價 價之僅以一種 關價隨 0 W 此 價 期間物價之變動為 項關價,既從一年問 之而 , 對於品質不等之各種 其所測度者,殆包舉 凝;反之, 「密特林」花色之價格 則輸出品之關價尚不及輸入品較為確實; 如低於 ,而今年輸入美棉 目的,故 對 美棉 於各 兩部 去年 採 , 為標準者,自更 種品質不等之美 既屬無 分 , 為標準之貨 之變動而 则 其 之一般 ..從區 價 值 言 必 別 物 0 較 品 賅 棉 , , 柔 小 括 赏 则 粉 所 國 於 如 求 付

防川者,猗径成鸭茂牛年(一入五八)所訂税則, 年代河道, 物值巡遇,其中從虽顽品以今ņ昔 , 估價過低者,自佔多數

· 或謂此足稱成貳國國際代借上無形榮出之一項目云。

別

關 國 不 物品 價 價 稅 紶 低 爲 習 # 坜 値 銀 , 品 果 標 载 用 惟 四 在 之 自 Œ 準 數 4 鈓 . 5 之 犵 此 \equiv 國 價 無 無 原 亦 鱼 , 最 固 物 類 數 單 , 外 者 數 不 ゕ 其 ; 以 品 而市伍单位终行,至於整打之重益,则裁选器之狙溯而有不同;又如十学级皮之则册单位发进,而市伍单位终天万尺,至於整打之重益,则裁选器之狙溯而有不同;又如十学级皮之则册单位发进,而市伍单位终天万尺,至 单位继续,如同为是使单位,或或近单位,或容核单位,折算向品,如由担折算贪喝之類是。但如此器之關册单位终担 缺 九 貿 位 量 発 , ۰ 與 從 , 其 單 耀 易 可 Ŧī. 轍 不 數 丽 爲 過 Ξ 最 位 , 上買 四 出 攷 Ż 大 不 同 显 , 征 與 蓋 , 入 之 外 牽 過 至 相 輸 稅 關 O 八 由 賣 物 有 擊 , 動 乘 小 出 者 册 本 貨 非 Ż 品 所 , 炙 , 入 爲 之 指 四 餘 劬 通 物 單 出 且 皆 結 参 兩 實際 数 鉠 過 ス 以 足 果 딞 , 位 堔 點 使 , 游 也 皴 , 之 m , 用 授受之 以輸入數量 關 量 轍 常 딞 , 從 不 ٥ 市 時 除 皆 出 蹬 費 價 瓣 價 え 價 Ŋ 選 , 征 同 所 平 商 値 Ŋ 様 往 稅 異 致 荺 掃 易 Λ m 橑 往 (註九), 潜 _, 價 所 得 , Ŀ 濉 īfī 高 如 也 之 夳 各 之 報 下 亦 〇二八 關 以 品 0 或 高 輾 0 不 椱 鬬 例 海 價 何 之 等 不 膊 下 價 如 關 也 相 為 折 , 少 , 爲 , + ? 所 岩 Ħ. 嘲 丽 , 合 計 八 佑 椱 物 朙 移 त्ते 此 , 四四四 與 價 鎮 年 z 係 易 價 3 類 指 我 平 鍛 奥 , 標 則 滋 物 擔 國 權 數 荺 显 失 地 僅 品 錯 之 轍 除之,得四 價 相 數 其 高 能 誤 腳 資 乘 ス , , 髸 狾 選 ï 册 美棉 料 換 相 , 旣 價 璻 # 其 言 其 峕 , 値 , 例 之價值 则 之 穁 取 大 種 , 丽 黻 = 除 轍 , 必 材 指 或 價 從 出 曾 篓 於 數 標 位

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公式如下(註八): 數與各項比價諸乘積之和, 各 項 物價,而求其百分比價,一一與檔數(價值)相乘,然後以權數之總和,除各項權 $I = \frac{P_0' \ Q_0' \ \left(\frac{P_1''}{P_0''}\right) + \ P_0'' \ Q_0'' \ \left(\frac{P_1'''}{P_0'''}\right) + \ P_0''' \ Q_0''' \left(\frac{P_1'''}{P_0'''}\right) + \ \cdots \cdots P_0^n \ Q_0^n \ \left(\frac{P_1^n}{P_0^n}\right)}{\Sigma \ P_0 \ Q_0}$ 而求得指数。武以基期之價值為權數,則加權算衛平均之

由此觀之,以上二種公式,可謂完全一致。惟物品之價值,等於其價格乘其數量 P₁' Q₀' + P₁''' Q₀''' + P₁ⁿ Q₀ⁿ
∑ P₀ Q_r

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加權總合比率式之指數,旣將若干數量之各極物品,按照基期物價所得之價值,對

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(胜八) 要重数投列驾第三公式,绘照 The Making of Index Numbers, p. 51; appendix I, p. 879; appendix V, p. 466.

所需之貨幣代價為幾何,不難一一如示諸掌。可見由此項指數表示貨幣購買力之變動 單位(例如米一石,布一碼) 之物品,在計算時期所需之貨幣代價為幾何,奧其在基期 於同一數量之同種物品,按照基期物價所得之價值,表示其比率為幾何;則一定數量

較諸加權算術平均武之須先求比價 者,其意義更為明白瞭賜,所不待論。

圈關册不僅有輸出入物品之價值統計,即其數量亦復逛逛可改,故採用總合比

合比率式

一相

加;次以各項權數 (數量) 乘計算時期之各項物價,而將其乘積

亦一一

:

各項物品 相 加

 $I \ = \ \frac{P_1' \ Q' \ + \ P_1'' \ Q'' \ + \ P_1''' \ Q''' \ + \dots + \dots + \ P_0^n \ Q^n}{P_0'' \ Q''' \ + \ P_0''' \ Q''' \ + \dots + \dots + P_0^n \ Q^n} \ = \ \frac{\Sigma}{\Sigma} \frac{(P_1 \ Q)}{(P_0 \ Q)} \ ^{(RE \times)}$

果欲精 位 於比價,稻語乘數之於被乘數 ? 叉如 至 密 以貨幣數額表示之價值也。 於加權鎮術平均式,則 比較, 所採權數係基期中各項物品之數量時,則其公式當為(註七): $I = \frac{\Sigma}{\Sigma} \frac{(P_1 Q_0)}{(P_0 Q_0)}$ 在權數之本身上不可無共同單 ,可爲名數,亦可爲非名數。然各種物品之輕重程 須先求比價,故其權數亦須有一種共同單位。夫權數之 其計算方法 ,先以基期之各項 位。孰爲切合於丟人經濟目的 物 價 , 除計算時期之 之共同單

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《註七》 安瞳教授列為第五十三公式,整照 The Making of Index Numbers, p. 50; appendix V, p. 471.

(註六) 13 爲各項裁和之符號。

上海 價 售 爲 舊 市 Ż 遊 捐 價 本 糤 數 , 0 指 之 出 但 夫 數 各 ス 因 爲 Ŋŕ 羝 貿 窥 交 採 딞 通 调 用 易 Z 目 全 之 , 及 約 不 図 物 其 魀 價 占 便 對 全 利 出 , 國 瓔 於 , ス 检 轍 槛 物 1.E 出 出 度 價 彻 Ź ス 之 Ż 验 價 貿 未 變 售 偛 易 統 鋤 物 之 , 百 恕 價 分 見 百 抇 之四 窒 分 , 數 礙 数 漠 同 + , 尙 如 為 列 左 3 各 郁 右 表 , IJ. 月 原 + 伽 , 改 亦 右 進 產 Æ 之 足 地 H 以 麗 及 本 羝 , 主 會 豹 當 要 所 俟 銷 鋼 __ 班 售 異 查 市之

朅 止

之

海

茲 所

計 笲 劬 Ξ Œ 指 數 公 之 公 大 , 大 別 寫 偛 單 캠 荺 公 淀 爽 加 權 平 荺 公 定 ۰ LE 海 盔 售 物 矣 Ħ

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	六三年間輸出入平均價值之比例,輸出為百分之七八,輸入為百分之六八。	少十三項:輸入為一〇九項,比茲指數減少六項。其所占價值總數與民國十四十五十	未列名各品之界限不消者,則為例外。綜計所遷物價,輸出為六十六項,比從指數就
	為	値細	為六
	分	數	+
	之上	奥尼	六百
	八八	. 國	,
	0	+	比
		四十	任 任
		五	数
•		1	被

	草草	田 網	物版	物價項數 物價項數 //		数* 指表 8,106 2,211	相 相	出 根	物價項數 新表 從 18 18			数* 1,065 675	水 標數百分數 新染 從表 22% 17% 15% 11%
	蒜	網	19			2,211	38%	36%	8	ေ	1,128	675	15%
	曼	路金属	7	6	471	320	7%	5%	1			1	
	*	網	22	10	104	207	2%	4%	Οī	44	120	126	2%
	쑕	掘	Οī	67	448	368	7%	6%	OT.	6	849	264	5%
#	標	哥里	12	12	2,080	1,722	31 %	28%	42	36	1,406	1,576	19%
釜	岀	哥	21	26	1,327	1,283	20%	21%	54	66	4,289	8,718	59%
ѝ│		뿌	99	79	6,676	6,111	100 % 100 %	100%	109	115	7,233	6,359	100%

^{*}游戏瘤歌祭员图十四十五十六三年平均常出的值及给入的负值,到处植歌祭员图十二年始出页值及像入物页值,用

企均爲四銀十萬用。

數 入 密 原 轍 者 國 賘 十 無 日 係以 兩 Æ 出 級 , 未 料 簱 足 新 , 之說 部 有 此 品 品 兩 Æ 月 除 枥 本 総 生產統 指 Ξ 以 輕 聚 有 品 共 分 草席之市價季節變 £ 和異 之物 心合支出 之 數 項 也 生 種 特 , 原料品中之動物质,我因称入鳏多,如部丰光,牛骨盔不均每年之粒入沙菌均不足煅烧五十萬期,故私入指挥,原料品中 之分 者 勢 殊 捐 非 Ħ 産 之 之點也(壁)。 價 計 品 數 例 0 情 , 為選 選 不 娅 形 额 類 , ; , 泽 _ **桑朅總指數,今亦以權數不備,分繙輸出入物價** (國產總值減輸出總值, 缺乏加 消 少 溡 老 , 擇 槪 所認 外 , वि 費 面 品 舊 謂 按 Ż 見 , 物品 勔 絁 悉 權資料 與 爲 表 , 0 极 復將原 主 經 上逃國際物價指數大體 過剧者,如羊毛皮之品質參差難定標準者 紁 要物 松探入。 之加 此 據民國十二年關册,凡 0 但 次 , 如鸭 修 品 姑付闕 料品 I 程 Æ , 惟 分 以 度 毛 **今或降為次要;而今所** 我 為農産 R 如 • , 國對外貿 而與輸入總值 帽 國十四十五十六之三 ٥ 將以上三種指 E 緞 美國 , , 林 機器, 八易, 相 问, 産, 輸出入價值 聯邦銀行準備局 华來 相 数中 動物 枕 惟國產品 加 水之市價 不 ٥ 流行 産, · 所包 無進 爲權 年 在 之物 碳産 卒 者 翢 指 含之物 步 不易調 , 均 , 銀 數 數 Ż , 五. 國 價 叉 價 , , 在 轍 , 將國 如 値 鏂 え + m 際 指 蓋 品 不 數 亦 ٠, 萬 物 脷 査 在 時 商 釽 者 關 或 덂 南 組 產 有 各 價 分 七 右 親 以 總 奥 指 以 取 所 , 銀

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未列酚物產品、此亦本指數稅異於美國粉邦銀行增加局指數之一點也。

轍 低 業 , Æ. 標 Щ 種 進 落 生 华 ス 一物價 之 產 製 , 雙 (胜四 國 勢 딞 物 奥 则 指數。 價 聯 工 於 , , 对外贸易统计之规则法,有一般贸易央锋殊贸易之分。在一般贸易统計,保色拼:(一)在输入方面,一切货物由該國以外 (11) 為該國內所本國化者。 我因明州僅有一般貿易統計, 耶穌特殊貿易統計, 惟下經問表一採用一九一〇年勁登悉 耳銃 之地方侵入者;(二)在检出方面,一切食物由族因逐往其他地方者。在特殊貿易統計,则將陷入食物分為;(一)一切食物 桃篮 U.S.Federal Reserve Bulletin, June, 1921; Feb., 1922; May, 1922 我阅稔入货值,在民员二年终则级五七〇,一六三,〇〇〇时,十八年终则级一,二六五,七七九,〇〇〇时。自妻 寶豐 品,(四)赞贷,舒我圆餐出入物品自一八六五年起,重行改摄。参者六十五年來中國國際貿易統計,中央研究院赴會科學品,(四)赞贷,舒我國營出入物品自一八六五年起,重行改摄。参者六十五年來中國國際貿易統計,中央研究院赴會科學 年太平洋雜誇第二卷第八號,發仿照英國貿易統計之分類法,分爲:(一)飲食物及烟草,(二)原料及牛製造品,(三)製造 贸易之真相,略有指贴,然各種貨物之蛤類,有未整恰合者。楊繼六先生著「毀國海阳統計改真芻議」一文,既於民國九 計會議之議决案。其類目為:(一)動物,(二)食物及飲料,(三)生愁原料,(四)製證品,(五)生金銀及金銀貨幣,於對外 ,曩明保多該國治亞之川者,與(二)一切貨物將在該國鹽形,從標或加工者;韓出貨物亦分:(一)為該國內所生產者, 得数终七〇九,一二〇,〇〇〇阳。可见十八年之榖入宜值,如以二年之椽入宜值装示,则非贸易之增加率,不适四分之 入物價指數為一七八,五(民國二年作為一〇〇),武以此項指數於十八年輸入登值關級一,二六五,七七九,〇〇〇兩, 之,检入贸易约增加一倍又五分之一,而贤原之增加率,遵不及此。歷年经值步昳,以致较入物值搬基增高,十八年之赣 研究所出版。 轍 邦 指 此 業 精 數 銀行準備局所編之國際物價指數(註四),包含美, 出入貿易 中 生 製 其分類有二種 品 , 關 産 北: 係 之 , 爲 遏 ĸ , 悲 之具 程 觀 七 切。 地 r 察 , 注 相 研究 叉遭 國 標準:一面按商業移動之方向,分編國產品,輸入品, 意 , 中 o 及其與物價之相互 遇 國外貿易統計者,多 如 產業之盛 今日 輸出入物 金貴銀 衰 , 價指數, 脱之狂 颠 商業之消長者 關係(註三), 力有將輸 亦以 湖, 銀 物品之加 (幣之 [法 Ğ 出入貨 , 更 (註二)。 英, 對 多 物 所 I 外 坎拿大 分別 我國 程 價 闒 發 度 値 今 寫 可 為 , , 分 方 原 有 知 日本 在 料品 Ħ 也 類 農 Ż 趐 -- 12

破産 變動 安 寫 產 受天時之影響, 料 , 却 , (定。 一物 生 盆こ 爽 猖 比 Ý 之情 旦 産 品 價之上下, 製 同 諸 麎 原 原 對 上所 者 品品 婴 딞 産 料 爲 機區Prof. W. O. Mitch sil: The Making and Using of Index Numbers, Part I of Index Numbers of Wholesale Prices in 料 於 the United States and Foreign Countries, Bullellu of the United States Bureau of Labor Statistics, No.231, pp. 40-51 物 形 兄之 為穩 Ą , 分 與 物 述 則稍 消 造 背 價 别 製 價 费品之需 物 貌 道 之 部 定 品 全 丽 溉 雖 品 巽 則 居 似 o 之 膯 密哲爾教授 馳 0 最 較遜 物 撘 製 , , 9 變 故 能 盐於 Įţ , 딞 , 各 價 勴 要 一於農産 可 或意與 砌 奥 常 成 瘌 錢 之代 價指 商 随收 各 供 製 動 不岩生 直 肖 品之物 業 表 類 , 對 接 包 數 盛 品 雌岩 **秘之豐歌為**轉 Ļ 性 於 含動 之合 衰之 消 , 親 有 産 | 投之用 物 m 0 價 息 所 便指 物產品 品之隨商業狀況 有 循 特殊之張 相 息 校 不 發相 岩 大多數農產品 物價之變動 相 儲 數 者 開, , 所當 爲消 移, 者 蕸 較之製 然以 落 , 和 喪品 採 亦 毎奥 0 , 亦所常有。 取分類方法之大意(註一),而 相 IJ. 品奥 髮動之程度 , **沁上四品** 為轉移 者 當願 , 矛 般物 其 盾 其 供 往 其 原料 往與 領異 物 工業或商 之為原料 , 放其物 林産 之物 丽 價之動 指數之 八其趨 言 物 價 , 1、業上消 價 也 價 勢 则婴 作 相 短比 起伏 包 同 0 岩 狀 含多 品 勯 , 況 , 生產品 狴 m 殊 物 , 更 Ż 應 之用 其物 大 産 物 丽 有 用 林 0 將 品 遏 價 於 爲 者 價 所 原 Ż

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爲 民 國二年二月 海 轍 出 ス物 0 所 價 異 指 潜 數 9 , 彼 起 爲 緼 固 於 定 民 基 國 期 + 制 四 , 年 此 Æ. 則 月 爲 , 其基 連 瑕 基 期 捌 則 制 與 耳 止 ۰ 海 所 蹇 謂 售 固 物 定 價 制 指 者 數 , 同

以 僅 基 於 第 掤 之 求 物 第 價 _ 命 時 為 期之指 O 0 数 時 直 , 接除 IJ 基 期 先 之物 後 各 價 時 命為 期 之 __ 物 0 價 0 , ; 而 分 至 於 别 求 求 第二時 其 指 數 期之 a 若 指 連 數 瑖 時 制 , 3 则 則

以下 指 溡 連 數 類 期 癥 之 , 推 相 蒋 物 乘 0 譯 毎 價 ٥ 爲 期 命 以 為 基 求 非 得 前 期 之 0 後 指 指 Ó 數 衐 數 ; 接 , , 求 觗 , 第三 謂之 成 須 將 時 「環 順 該 期之 期 序 比指 之環 迹 指數 瑕 數] Link Index 此 式 時 , 指 数 , 莜 则 日 , 以第二 與 運 第二時 囊指 Number 時 數] Chain Index Number 期 堋 0 之 廷 呦 第一 如 由 價 第三 命 偫 爲 期 時 之 O 期 瑕 _ 9 -

各 後 餇 琛 鄰 之 接 利 兩 , 時 在 期 於 之 比 較 物 價 辟 腡 , Ż 則 銋 巡 瑖 雕 較短 制 Ż 環 , 比 物 指 價 之上 黢 所 一落程 表 示 者 度 , 較 為集 校 爲 精 τþ 確 o 校 比 面 其 較

岡 項 差 因 小 蚁之 四 捨 五 ス , 或 計 奪 上 之 開係 , 不 死 有 微 小 之 差 鋘 經 濄

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無瑜不掩瑕之病。惟其與簡單鎮術平均之異同,已可略見一茲,姑不備論(註1)。茲 簡單幾何平均之優點固不止此,且計算手續頗恐繁複,指數意義略欠通俗,亦非

(一) 簡單算術平均公式(註四),即舊指數所採之公式:

以P1 代表計算時期之物價,如P1', P1'', P1'''………P1",又以Pa代表基期之物價,

(註四) 投寬教授列约第一式,见 The Making of Index Numbers, appendix V, p. 466. (註四) 投寬教授列约第一式,见 The Making of Index Numbers, appendix V, p. 466. (建五) 及应数投列将第二一式,见 The Making of Index Numbers, appendix V, p. 408 。 时驾驻例川野政方法求之,其公 (註611) 投資者 The Muking of Index Numbers, pp. 33-85, 62-72, 206-212 ' Log P1' + Log P1" + Log P1" + "Log P1"

積 結果不能彼此相應者,謂之不合於「時間類倒測驗法」,如簡單算衡平均之公式是。試 颠 = 200,即恐價一倍之謂。然則改取十九年為基期,以求十五年之指數,豈非恰跌一半 九 面 ? + ŤL M 倒 华 設 非等於 應為一也。故凡指數之公式,可轉換基期而 但簡單 年指數之倒數;又將一100~~100~~1000,於此可見簡單幾何平均之合於「時間顚倒 九 驗法」也。 例以 ·润驗法」Time Reversal Test (註11),如簡單幾何平均之公式是;反之因轉換基 溉 年 至 (註11) 穀道者 The Making of Index Numbers, pp. 6'-f5. 至五 粉一袋十五年爲價四元,至十九年惡至六元;雖蛋一枚在十五年爲價二分,至十 為基 於 /明之: -. 算術平均之結果,乃為 100^{25/4+40}=53 ½。更將 100 × 100 = 100 主積亦大於一, 分。 期 《何平均法,如以十五年爲基期,則十九年之指數為V150×250=198.85;如以 此 ,則十五年之指變為17<u>66%×40</u>=51.64。因<u>798.65</u>×100=51.64%,故恰為十 武用简單算術平均法,以十五年為基期,所求十九年之指數為150+250 《為簡單須衛平均之結果,不合於「時間顚倒測驗法」之明證。 其結果能彼此相應者,謂之合於 期面其 「時間

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是 年係國民政府 奠都 陌 京 Ż 前 年 , 於 此 託 始 , 蓋 猹 阿殿 前 年之基 期有 取於其為新

别 燃 分數表示之, 目 用途 而有 料 舊 計 訂 **嬗之交**焉 自 Œ , 0 , 至 老者, 於包 品之分 建 惟 異同。上海 則 , 為一類, 一築材料 以 所 寫 期 謂 如 含 組食 類, 之品 I 新指 計程食類占一四•二%,其他食物類占二〇%,紡織品及其原料類占二四 Ŧi. 分類及品 紫用 不 , 玉 或 目, 相 工業用品 蕴售 物價 數 , 項,較諮畓表之一四七項,增廣八項。各類間物品之分配 按性質 品 克盎 蘇勵 其他食物 大李 亦 | 其调度一般物價之任務。全表 經參考本市 , 目 剧 , 指数分為八類 以免有重複平均之弊(註1)。 , 或按用 於化 其他 , 紡 心物品四 織品 學品之範圍, 途, 生産, , 一小類, 或 燃料及建築材料 , 一按產 **其中有按性**質 消費之現情與貿易之近況 **今則將燃料**, 地 無宿改為化學品 , 或按加工程 从以物品 等是。 者 , 建築材 如 計,為一一九 金屬及 度, 此 類;又雜貨類 項分 大抵隨指 , 料 酌量 類 化 方法 化學品, 學品 - , 如 以 品 增 數之 是; 減,分 向 , ; 分列 茲仍 IJ 雜 有 百 項 2

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《出一》问题答 Prices and Price Indexes in Caina, Chinese Economic Journal, Vol. I, No 5, May 1927, pp. 429-463

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上海 躉 一售物 價指 數

報正

告物 之價 一指 基 期

扃 倔 ; 標 南 Œ 當 蓋 一為與 低 含 消 開 渚 指 illi 大 之 遠 姑 發 基 數 Ü 之 病 價 有 E 國 就 各 價 丽 慰 於 物 뫘 _ 後 指 融 費 近 國 所 個 暄 R 價 況 IJ 從 按 嬓 6 , 國 IJ 月 採 此 IJ 指 , 經 教 Ż 廽 時 屻 標 游 授 + 數 九 取 研 質 物 移 Ż 進 量 指 六 沿 價 厳 時 究 数 年 用 用 Ξ IJ 與 年 委 九 爲 易 期 與 般 一九二三 , 基價 物 坎 且 為 他 員 月 拿 重 會 將 固 基 價 則 之 有 時 Z 大 行 基 , 期 誷 一年之基 棒 期酌 亦 基 之 之 拁 相 指 飻 不 勘 基 Ž 對的 指 北 數 Œ 量 冤 期 物 批 , , 數 根 已 芬蘭 期 價 變 發 採 展 ٥ 動 據 便於 比較 者 爲 物 取 有 [Æ 為目 海 歷 稍 價 指 , _ 周 弱 時 簽 變 數 九 猶 比 指 售 動 的 = 年 0 過 較 0 居 數 多數 我 六 年 久 物 之 , 奥 , 洩 **八之**國 IJ 來 見 程 故 本 國 劕 價 免基 必 指 度 會 物 0 指 民 0 須 價 之 数 國 惟 ; 緼 數 0 压 取同 + 聲 價受 統 製 之 此 選 而 計 基 當 IJ 項 取 海 Æ. 譽 一之 素著 生 年 季 衝 牓 來 期 標 爲 喾 爲 節 係 準 祈 之美 基 之 阯 於 倏 物 時 基 民 費 期之物 影 會 補 經 指 期 期 國 價 國勞 뿊 者 所 查 + , 數 0 謂之 載 有 材 注 年 0 , 其 價 有天津 工統 茲 雞 偏 意 料 ,

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之。 任之 I. I 二岩 作 作 ; 駋 , , 於轍 圀 任 多 芝 於 所 啓 上海 出 ス 發 析 物 疑 夢 , 售物 辨 價 足 為 難 指 . 數之調 價 改 指 進 稗 数之 張 益 本 宏 查 調 者 多 , 藴 ٥ 查 , 其 製 , 有 與於 ,及報 緼 潘 更生 製 計 , 及報 算 告之二譯文, 牌 , 校獅 告之一譯 先 生, 者 趙 文, 守 為 由陸應雷 徐 愚 君 由孫字華 人傷 利资等 博士 宗齊 色 芮曉 合 砒 礩 次

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易 , 阻 溡 公支配 代 然 , 與 我 3 湾 丽 図之 復 學者 劬 秤 **一次為信** 矣 物 量 貨幣 邊 嘗 交 易 將 壓 之習 經 時 腹 用 交易 代 地 濟 慣 相 , 進 時 糆 化 去 依 已 代 ᢢ 碊 之 步 存 存 0 遠 聚分. 在 ٥ 物 在 吾人 o 物 I 交易之 嚴格 商 過為三時 發達 生 產 鰪 之, 形 之 , 代 消 式 並 賽 我 , 世 國 各 最 卽 在通 固缩 國 初 分 爲 配 , 之 未 物物 都 已 大邑 由 _ 能 交易 完 貨 切 經 全 幣 , 交 時 濟 達 銀 易 於 行 代 行 貨幣 爲 鈔 襞 , 劵 駸 次 , 交 通 進 爲 蓋 貨 久已 易 於 行 之 雖 信 幣 受 用 境 無 交

此 介 下 時 洛 阊 物 雖有先 價 其 物價之變 即貨 本 指 数之 身 髂 後 Ż 所 價 , 購買力之 動 由 位 但 由 不 作 恆 於物 爲 也 易 增 直 品 般 接 加 方面 表現 > 的 不 0 者 待 ---, ٠, 頹 般 丽 大 官 有 物 抵 為局 癡 丽 價 解 Ž 於 6 部的 Ŀ 般 惟 漲 貨幣旣 物 ; 價 鲌 若 货 Ż 其受貨幣價值之影響 平 為測 幣 準 購 盘 買 , 價值 力之減 IJ 僴 之尺 接 表 炒 ; 現 度 其 斑 m 購 交 般 麩 易 買 物 動 價之 力 之 者 媒

效 ø 用 此 固 因 物 U 價 由 不 指 於 数之 彰 近 代 ÷ ŖĻ 創 今 始 則 術 變 Ż 進 動之勢猛 雖 步, 遠 在 然 --告 八 日物 影 世 趣 紀 所 價 中 椞 及之 之 變 , 範 動 丽 寫 圍 其 風 勢 廣 緩 行 指 , 於 数之 影 世 遯 , 效 所 獪 爲 用 及之範圍 距 因 IJ 令 $\dot{\Xi}$ 敿 狭 + 车 效 指 間 数之 之 用 著 專

