TERMS OF TRADE

For

SYRIA & LEBANON

BY

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Being a thesis presented to the Commerce Department of the School of Arts and Sciences of the American University of Beirut, in partial fulfillment of the requirements for the candidacy of the Master's degree in Business Administration.

May, 1952.

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TERMS OF TRADE

For

Syria   and   Lebanon

(1938 - 1949)

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Summary of the thesis.

The following is a statistical attempt to arrive at the relative change in the terms of trade for Syria and Lebanon over the period from 1938 - 1949,   To arrive at a terms of trade index, price indices of exports and imports had to be constructed. Further more, quantum indices of exports and imports were cons- tructed for the same period to compare the relative change in the volume of exports and imports.

The work is divided into two main parts. The statistical part which is the major part appears in appendices B and C of the thesis. It is concerned with the actual construction of the price indied indices of exports and imports. The other part of the work is the introductory part. It is concerned with the method of procedure followed in arriving at the price indices, the problems and difficulties faced with, and the final results with a few remarks on each one of them. The nature and significance of the concept of the terms of trade is found in the introduction to the work. The major difficulty faced with in the calculation of the price indices, was the adjustment of the values of imports

in the post-war period, in order to arrive at the actual values of imports paid by the Lebaneese and Syrian importers. the adjustment was according to the ratio prevailing between the free rate of exchange and the official rate of exchange in the year concerned. The method of adjustment used in the imports is fairly represented in part III of the thesis under the imports section.

The price indices of exports and imports, and the terms of trade index, which were arrived at in the work are shown on the next page. For any further details, the first thirty five pages of the thesis are sufficient to supply the neccessary information.

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TABLE IX

Terms Of Trade Index

Syria and Lebanon

Year	Price index of Exports	Price index of Imports	Index of X over Index of M	Terms of trade index.
1938	100	100	1.0000	100
1939	107	112	0.9554	95.54
1940	150	148	1.0135	101.35
1941	207	209	0.9904	99.04
1942	337	288	1.1701	117.01
1943	464	338	1.3728	137.28
1944	493	331	1.4894	148.94
1945	498	421	1.1829	118.29
1946	415	452	0.9181	91.81
1947	341	533	0.6398	63.98
1948	333	523	0.6367	63.67
1949	246	466	0.5279	52.79

PREFACE
....

The aim of this thesis is to arrive at a vital piece of
information, the lack of which has been greatly felt, by every
research seeker interested in the analysis of the foreign trade
of Lebanon and Syria. This analysis has been the concern of
many people especially in the post war period.

In the following pages, an attempt has been made to
construct indices for the terms of trade, and the quantum of
exports and imports. To arrive at a terms of trade index,
price indices for exports and imports had to be constructed as
a preliminary step. The period under study falls between 1938
and 1949 during which Syria and Lebanon shared in a complete
economic unity, then in a customs union.

As a result of the impossibility of arriving at correct
estimates for Lebaneese and Syrian foreign trade individually
during this period of time, the work has been carried for both
countries as one unit, with the results coming out being
applicable for both of them together, but not for each one alone.

The major part of this thesis, being the statistical
calculations of the price indices of exports and imports is
found in Appendices B and C, at the end of the work. Never
the less, the method of proceedure, which is fairly explained,
the final results and the comments on them, are all found in
section III of this thesis. The terms of trade index is

found in section IV, while the problems and difficulties confronted with in arriving at the terms of trade are found in section I which is the introductory part.

I really don't dare to mention all those to whom I owe a great deal for making this work possible, lest they become responsible in any way for the many but inevitable pitfalls that await the investigator in such problems. Yet if I may be permitted to do so, I wish to express my deepest gratitude and respect to Professor W. O. Thweatt of the Economics Department, under whose careful supervision and guidance this thesis has been made. The writer is also deeply indebted to Professor M. Y. Husayni of the Commerce Department for his valuable advices and suggestions, and to Mr. Montias of the U. N. O. for his useful information on the subject. To them and to many others who have been a great help to me, my due thanks and respect.

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INTRODUCTION

Terms of trade is a statistical concept relating average price of exported goods to the average price of imports. In the case of Syria and Lebanon, the study is based on the price relation between primary goods, which form a major part of the exports, and manufactured goods, specifically capital goods, which form an important part of their imports. Such a relation between relative prices of exports and imports, can hardly be ignored if we take into consideration the fact that Syria and Lebanon fall in the category of under-developed countries, and the generally held opinion, that foreign trade tends to be larger in proportion to the total national income in under-developed countries, than in highly industrialized countries.[1]

Henceforth, the impact of foreign trade repercussions on the national income of the two countries would be powerful. An improvement in the terms of trade would make it possible for such countries to obtain larger quantum of imports for a given quantum of exports, and in this sense, an improvement in the terms of trade would affect the national income as positively as an improved technology or an increase in employment.

In the same way, a deterioration in the terms of trade would have the effect of offsetting any favourable developments that

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1. United Nations, Department of Economic Affairs, Relative prices
   of exports and imports of under-developed countries. Lake Success
   New York, 1949.

may accrue from other means. However, since changes in the terms of trade are only one factor, but by no means the least important, affecting national income, it should not be directly inferred that movements in the terms of trade are always matched with corresponding changes in the national income. Before relating any changes in the terms of trade, to changes in the national income, the following precautions have to be taken into account:

L. "Changes in the terms of trade should be analyzed and evaluated with changes in the quantum of foreign trade; it is only when improved export prices relative to import prices are not attributable to a reduced volume of exports that results are uniformly favourable.

2. Benefits of ~~impoved~~ improved terms of trade may well be wasted in the form of unemployment or underemployment, and may not lead to higher national income or more rapid economic development.[1]

The primary impact of changes in the terms of trade centers mainly on the financial resources aväilable for economic development. Thus "favourable changes in the terms of tradeof of under-developed countries improve their ability to meet debt service on foreign loans, and withdrawals of earnings of foreign financed investments."[2] But since the movement of terms of trade during the past thirty years have been always in favour of industrial goods as opposed to primary goods,[30] the ability of under-developed countries to obtain

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1. Ibid. P. 122.

2. Ibid. P. 16.

3. Ibid. P. 18.

foreign capital have been duly limited to certain fields of
investment yielding foreign exchange directly.

The present study is intended to give a light on the position
of Syria and Lebanon, during the pre-war and the post-war periods
in the realm of international exchange of goods. However, such
a study will consider the position of Syria and Lebanon as opposed
to the whole world. It is not intended to make a domestic
analysis of the benefits or disadvantages that have accrued as
a result of changes in the terms of trade. Moreover, the study is
intended to trace the evolution of the terms of trade from a
pre-war base which is 1938. To what extent terms of trade were
favourable or unfavourable to the two countries in 1938, is not
an issue of discussion, and consequently the absolute results
during this period cannot be determined too. Only the path trend
of the terms of trade that is the aim of the study.

Since terms of trade is a statistical concept measuring
changes in a relative way, the problems faced with in estimating
it arise mainly from the nature of the concept. The major
problem in estimating the terms of trade for Syria and Lebanon
was to arrive at correct valuations for the imports of the
two countries in the post-war period. The then prevailing
discrepency between the official rates of exchange and the free
market rates, coupled with the method used in recording imports
in that period, rendered the official statistics of foreign trade
completely deficient. Moreover, the method used by the official

authorities in distributing the relatively small amounts of
foreign exchange in 1945 and 1946, made the possibility of
arriving at correct estimates for the imports in these years
exceedingly difficult.

Besides these special problems, there are still the ordinary
problems confronted with in the estimation of the terms of trade
of all under-developed countries, as opposed to the industrial
countries. In the first place, there comes the problem of changes
in the quality of either the exports or the imports, which is
not accounted for in the statistical data. When the period under
study is a relatively long one, changes in the ~~terms~~ quality will
ultimately influence the terms of trade in one direction or the
other. i.e. terms of trade will be shown either more favourable
or less favourable than they actually are for the country.
In the second place, there comes the problem of changes in the
composition of foreign trade. e.g. if there was a tendency
towards a shift in the imports for more luxurious goods or
vica versa, this will make the terms of trade look biased in
certain direction. In the third place, the problem of choosing
a fairly suitable formula for the price indices and the problem
of putting proper weights for the index, will all make the
study over complicated. The question then becomes, Would the
terms of trade index arrived at from the prevailing statistical
data, give a true picture of the terms of trade given all the
previous difficulties and problems? The answer to this question

is fairly represented in the following words, "There can be no single 'true' index number of export or import prices. The impossibility of finding and presenting a single 'true' index number and therefore a single 'true' figure for changing terms of trade is not due to any deficiency in the statistical data used or the statistical technique employed. It is a logical impossibility". The terms of trade index would determine the pathway but not the details of the relation between export and import prices of any country.

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EXPORTS

Method of Proceedure
....

Price Indices.

An index of price for exports was constructed in the
following way:

To begin with, a list of all the exports in any year was
prepared and classified according to the United Nations'
classification of items.[1]   In other words, all the items exported
were inserted under twenty one sections, with subdivisions in
each section (called chapters) amounting to a total of eighty
six chapters in all the sections.[2]

From these chapters, a list of the most important chapters
in exports was prepared for each year alone. Importance was
judged on the basis of value; every item which had a value of
hundred thousands pounds or more was included in the list.

Further more, it was taken into account that the list of
important items chosen for any year should possess a value
around ninety percent of the total value of exports in that year.

Consequently, during certain years - essentially the war
years - certain items which possessed a value below the amount
agreed upon, had to be inserted in the list to raise the percentage
value of the items chosen. Such a proceedure had to be applied
whenever the percentage value of the important items - as they

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1. See Appendex A.

2. The same classification is used in the imports.

are defined - in that year, was less than 90% of the total value
of exports.

As the importance of the items was changing from year to
year, the list of items had to be changed too, and it followed
that no two different years contained identical items. This made
the use of the chain index obligatory in the claculations.
Accordingly, each year's index was calculated at first, as
a seperate link, with the year preceeding it functioning as
a zero year. There from, all the resulting link relatives were
joined together in a process of successive multimlications, to
be reduced to the original base year which is 1938.

To illustrate, the price index for 1939 was worked out by
choosing identical items in 1939 and 1938, and the items in each
year made up about 90% of the value of exports in the year concerned.
Whereas the price index for 1940 was constructed by choosing
identical items in 1940 and 1939, which are by not means equal or
identical with the items chosen in the previous year.

The table on the next page shows the percentage value of
the items chosen in the current year as well as in the zero year,
all over the period under study.

The formula used in the computation of the price indices
is the one called Fisher's "ideal index" formula. [1]   i.e. by
arriving at the geometric average of the aggregative price
indices, weighed twice by the quantities of the current year,
and the quantities of the zero year.

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1. Fisher Irving, The Making of Index Numbers, Boston & N.Y. 1922.

TABLE I

Total Value of Items Chosen in the Index

as a Percentage of the Total Value of Exports

Year	Present Year	Zero Year *
1938	...	...
1939	88.36	95.89
1940	95.52	94.43
1941	95.25	94.31
1942	95.69	94.31
1943	90.01	93.80
1944	94.74	97.20
1945	97.34	93.96
1946	97.63	98.19
1947	96.57	98.00
1948	91.86	97.79
1949	97.40	98.07

* The zero year in each case represents the year
before the current. e.g. the zero year in
1941 is 1940.

i.e. $\sqrt{\dfrac{\sum P_1 Q_1}{\sum P_0 Q_1} \times \dfrac{\sum P_1 Q_0}{\sum P_0 Q_0}}$ x 100

In choosing the formula, two thing were taken into consideration. 1. The degree of accuracy, and 2. the question of suitability. With regard to the degree of accuracy that could be arrived at in using this formula, Mr. Fisher states that, " .. of these 13 (formulas) the 'ideal' formula 353 ... is at least equal in accuracy and is probably slightly superior in accuracy to any of the others."[1] As to the problem of suitability, it is believed that this system of double weighing used in the formula would cope properly with the fluctuating nature of the foreign trade of these countries during the period under consideration.

The period from 1938 up to 1949 can generally be classified into three stages with different characteristics.

1. The pre-war period of 1938 and 1939 where exports of Syria and Lebanon showed a tendency towards stability in character with a slight increase in value and volume.

2. The war period where the exports showed many irratic and unclassified fluctuations with a sudden expansion or contraction taking place from one year to another.

3. The post-war period where a steady and constant increase in value and volume of all the exports was taking place.[2]

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1. Ibid. PP. 360.

2. For total values of exports, see table III.

If simple weighing by quantities of either the current year or the zero year was used, there would be a tendency to arrive at an inflated picture in the first, and a deflated picture in the second, of the price indices mainly in the post-war period.

The price indices of exports were worked year after year according to the already stated proceedure. In the table on the next page, the movement of the price indices of exports for Syria and Lebanon since 1938, is shown in the form of a chain index, and an ordinary index taking prices of 1938 as a base.

Indices of Quantum.

Index numbers of quantum is a device to show the changes in foreign trade after allowing for changes in price that may have taken place, since the base year. [1]

When wide fluctuations in value as well as in price are taking place, the quantum index becomes an essential piece of information to any further study of the foreign tarde. This was the case with Syria and Lebanon since 1938, as it can be easily seen from table II and part of table III. Under such circumstances, it becomes exceedingly difficult, if ever possible, to tell appriori whether the quantity of goods exported was changing in the same direction and proportion as the value of exports.

In the following an attempt has been made to arrive at

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1. Statistical Office of the United Nations, Monthly Bulletin of Statistics. August 1951. PP. 105

TABLE II

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Price Indices of Exports

Syria and Lebanon

(1938 - 1939)

Year	Chain Index	Ordinary Index 1938 as a zero year.
1938	100	100
1939	106.86	106.86
1940	140.23	149.88
1941	138.35	207.36
1942	162.46	336.88
1943	137.83	464.32
1944	106.15	492.88
1945	101.04	498.01
1946	83.24	414.64
1947	82.25	341.00
1948	97.77	333.40
1949	73.82	246,12

. . . .

comparable figures for quantities of exports all over the period.

The indices of quantum exports were arrived at by dividing the total value of exports in every year by its respective price index. This would give us the value of exports in every year quoted at the prices of 1938. The index is then computed by relating the values thus obtained to the value in the base year which is 1938. The resulting quantum indices of exports are given in table III on the next page.

Notes and Comments.

Looking back again at the price indices of exports, it is possible to say that the prices of exports had been rising during the pre-war and the war periods. The peak point was reached in 1945 when prices of exports went up to almost five times as they were in 1938. Shortly after the end of the war, there was a significant and contineous drop in the prices of exports. This was an anticipated result for Syrian-Lebaneese exports. For the main markets for their exports during the war period were the neighbouring Arab countries. Directly after the war, these countries were able to secure other sources of supply for their imports and at lower prices. Moreover, post-war foreign trade showed a marked tendency towards bileteral trade agreements. Syria and Lebanon, being unable to cooperate in this field, were segregated from their main markets of exports. Consequently, all goods exported in that period were marketed at reduced prices.

TABLE III

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Quantum Indices of Exports

Syria and Lebanon

(1938 - 1949)

Year	Total Value Of Exports 000, L.L	Index of Price	Value of Exp. divided by index of price	Indices of Quantum. 1938 = 100
1938	29,280	100.00	292.800	100.00
1939	36,516	106.86	341.718	116.71
1940	19.302	149.88	128.783	43.98
1941	11,227	207.36	54.143	18.49
1942	23,753	336.88	70.509	24.08
1943	32,031	464.32	68.984	23.56
1944	46,195	492.88	93.725	32.01
1945	43,842	498.01	88.034	30.07
1946	85,536	414.64	206.290	70.45
1947	83,640	341.00	245.279	83.77
1948	78,501	333.40	235.456	80.42
1949	111,104	246.12	451.422	154.17

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The drop in each of the years 46 and 47 was about 18% of the previous years' prices. In 1948, the drop was reduced to about 3% . This may be attributed to the adjustments that, by that time, would have taken place in the export industry. However, the highest drop in the prices of exports took place in 1949 (about 26% of the previous year's prices). The drop may be duly attributed to the collapse of the Palestinian market which was the main outlet for Syrian-Lebaneese exports.

The present price index of exports can be compared, for checking purposes, with the official wholesale parice index. In the table and the graph on the next two pages, the two indices are compared after adjusting the base year for the exports price index, to be reduced to comparable basis with the official price index.

It can be easily seen that the two indices moved in comparative proximity all over the period. The movement of the wholesale price index was more prominent, because it was influenced by prices of many other items besides the exported goods.

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Wholesale price index
Export price index

40　41　42　43　44　45　46　47　48　49
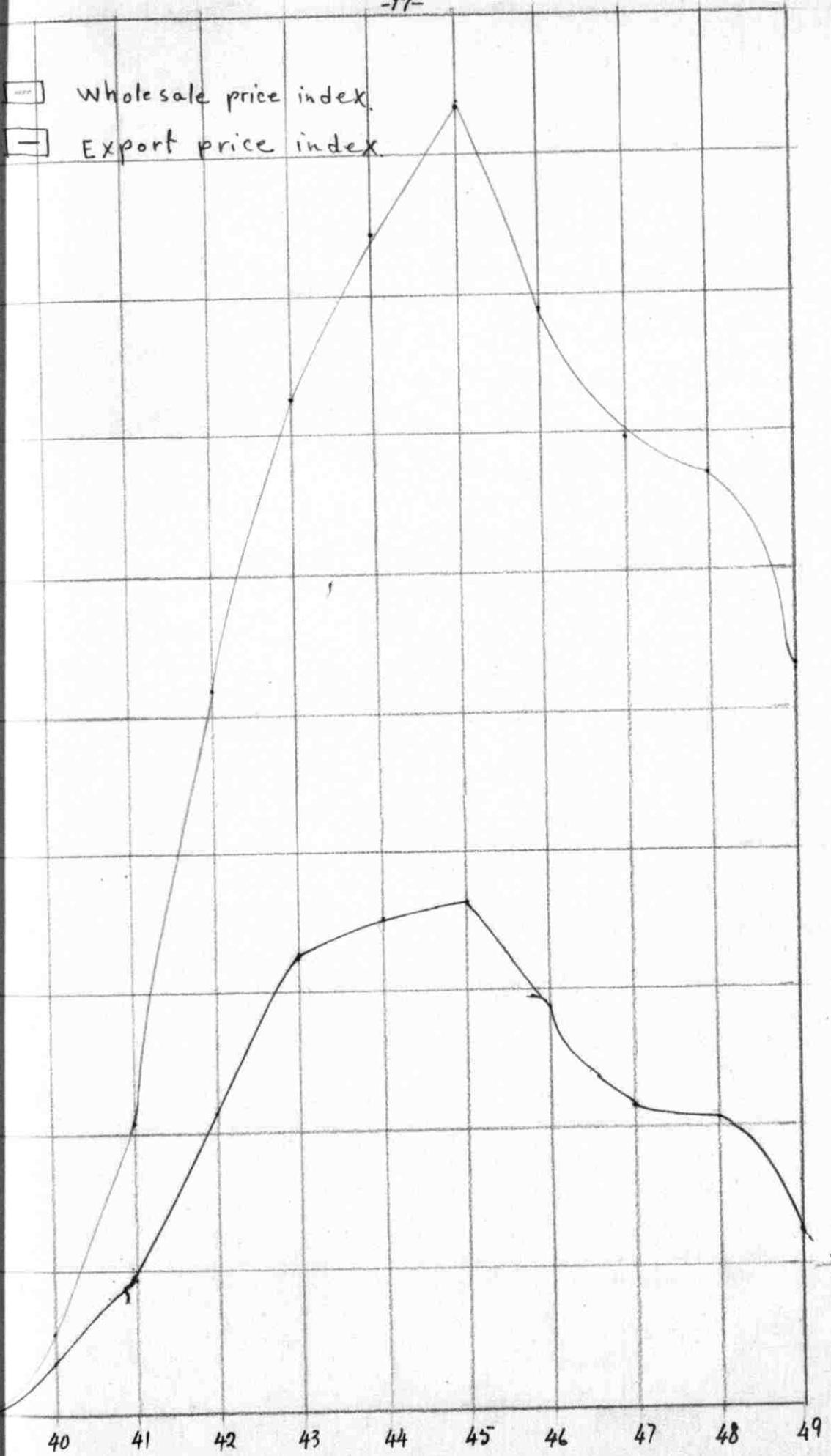
TABLE IV

Official Wholesale Price Index

and price Index of Exports

(1939 = 100)

Year	Price Index of Exports.	Wholesale Index [*]
1939	1 00	100
1940	140	156
1941	194	309
1942	315	626
1943	434	835
1944	461	953
1945	466	1038
1946	388	889
1947	319	797
1948	312	777
1949	230	641

* United Nations, Department of Economic Affairs, Monthly Bulletin of Statistics, N.Y. August 1951.

IMPORTS

Method of Proceedure
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Price Indices.

The price indices for imports were arrived at in the same
way used in the export price indices. The only difference lies
in arriving at the actual values of imports which are to be
used in calculating the price indices.

The values of imports were published by the customs
department after transferring the value of goods imported in
foreign currency, into Lebaneese currency on the official rate
of exchange. Hence forth, there arose a wide discrepency between
the declared values of imports and the actual amounts paid by the
Lebaneese and Syrian importers, since the foreign exchange used
by the importers was either partly or wholly bought in the open
market at the free rate prevailing at that time. This divergence
between the free rate of exchange and the official rate would
not have any effect on the final results had it been always in
the same proportion and direction, which was not the case.

For the sake of arriving at the actual values of imports,
the period under study, was broken down into three smaller
periods:

1. The period from 1938 - 1944, where the official rate of
   exchange was the actual rate paid by the importers, since

all the foreign exchange, at that time, was obtained from the
official authorities.[1]

2. The period of 1945, and 1946, where the amount of foreign
exchange distributed by the official authorities constituted
only a small proportion of the total value of imports. The
remaining part being all obtained from the free market.[2]

3. The period from 1947 - 1949 where all the imports were obtained
on the free rate. The official rate being only used by the
customs department for arriving at the declared values.
Moreover, the official rate was not constant during this period.

As a result of this anarchy in recording the imports in
the post-war period, the system of adjustment followed was
changing accordingly.

To begin with, the declared values of imports, in the
first period as recorded in the statistics of the customs
department, were taken as they are to represent the actual
values of imports during that period of time.

In the second period (1945,1946), the amount of foreign
exchange distributed by the Lebaneese and Syrian authorities
amounted to 30 million and 28 millions pounds respectively.[3]
These amounts of foreign exchange distributed in 1945, and 1946

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1. Ministry of Finance, Office De Change, Beirut.

2. Ibid.

3. Ibid.

constituted 25% and 11% respectively, of the total value of imports
in the two years. The remaining 75% and 89% of the imports
were bought on the free rate. Consequently, each imported item
was broken into two parts. In 1945, 25% of the value of the
item was taken as it is; the remaining 75% was adjusted and
added to the first part. While in 1946, 11% of the item was
taken as it is and the remaining 89% was adjusted and added
to the first part. The adjusted value was arrived at according
to the following formula:

$$\text{Adjusted value} = \text{Official value} \times \frac{\text{Free rate of exchange}}{\text{Official exchange rate}}$$

In applying this system of adjustment, the following
assumptions were made:

1. In the first place it was assumed that the amount of foreign
   exchange distributed by the official authorities was used
   completely in importing goods.

2. In the second place, tak that all the imported items got
   the same proportion of foreign exchange. i.e. 25% of every
   item imported in 1945, and 11% of every item imported in
   1946, were obtained on the official rate.

3. In the third place, the yearly average rate of the dollar
   and the sterling was assumed to represent the average rate
   of exchange during the year.

The free rates of exchange and the official rates used in
the adjustments are shown in the table on the next page.

TABLE V

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Exchange Rates

(For sale of transfer bills)

Year	Franc		Sterling		Dollar	
	Free	Official*	Free	Official*	Free	Official*
(1)						
1945	--	--	1035	886	338	221
(2) 1946	--	--	1016	886	333	221
(3) 1947	1280	1839	967	889	308	221
(4) 1948	962	1022 832	1121	889	358	221
(5) 1949	808	832 629	975	889 619	326	221

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1. Office De Bourse, Beirut. Publication of free rates were strictly illegal in this year.

2. Ibid. Average of monthly quotations.

3. 4. Commerce Du Levan, Beirut, issues of 1947,1948. Average of bi-weekly quotations.

5. Republic Libanaise, Bulletin Statistique Trimestriel. Premier trimestre 1951.

*. Conceil Superieur Des interets Communs, Op. Cit. issues of 1945 - 1949.

Item (27 c) which stands for imported oil, was not adjusted through-out the whole period, since the whole amount was paid on the official rate.

In the third period (1947 - 1949), the official rate was only used in the calculations of the customs department, while all imports were bought on the free rate. Besides, the official rate had changed twice in this period. And due to the fact that free exchange rates did not move in the same direction and magnitude during this period, it was impractical to choose one rate to represent all the rates of exchange. Consequently, it was found necessary to analyze every imported item into its countries of origin, and adjust every subsidiary amount according to its corresponding rate of exchange. Accordingly, countries of origin were divided into four categories namely, the sterling area, the dollar area, the franc area, and other countries. An average rate of the dollar and the sterling was applied for adjusting amounts coming from "other countries".

With regard to the problem of analysis, it is worthwhile mentioning that according to the United Nations' classification of items, all imports were grouped under 86 chapters, and it followed that every chapter contained several items of similar nature. Analysis into countries of origin was carried in the subdivisions of the chapter to arrive at the analyzed values of the chapter itself.

To illustrate on what has been said, chapter (72 a) consists of 76 similar subdivisions. The analysis was carried in these seventy six subdivisions and the results were regrouped again to arrive at the analyzed values of chapter (72 a).

This system of analysis was carried over for every important chapter in the three years. The analyzed values of the chapter were then adjusted according to the ratio between the free rate and the official rate of exchange for that country of origin. Whenever two official rates were prevailing in one year, as it happened in the franc in 1948 and 1949, and the sterling in 1949, [1] the amount coming from the franc area in each chapter was still broken down into two parts in proportion to the time of the year when the new official rate became effective. e.g. The amount coming from the sterling area in 1949, was broken down into two parts. 75% of it was adjusted according to the ratio of 975 to 889, and the remaining 25% was adjusted according to the ratio of 975 to 619, which became effective in 19. 9. 1949, when the sterling pound was devaluated. The same proceedure was followed in treating imports from the franc area in 1948, and 1949. [2]

The adjusted values of the imports were then used in constructing the price indices in the usual way discussed in the exports. In the next two pages, the percentage value of the items chosen in the index, and the prices indices of imports are shown respectively. The low percentage value of the items

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1 . See table V.

2.   The analyzed values of the chapters, and the adjusted values for this period are shown in appendex C part I.

TABLE VI

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Total Value of The Items Chosen in The Index

asaa Percentage of the Total Value of Imports.

Year	Present Year	Zero Year
1938	...	...
1939	94	89
1940	97	93
1941	97	88
1942	97	98
1943	97	98
,1944	97	97
1945	97	98
1946	81	99
1947	84	81
1948	96	84
1949	91	96

. . . .

TABLE VI I
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Price Indices Of Imports

Syria and Lebanon

(1938 - 1949)

Year	Chain Index	Ordinary Index 1938 = 100
1938	100	100
1939	112,48	112.48
1940	131.44	147.84
1941	141.55	209.27
1942	137.62	288.00
1943	117.51	338.43
1944	97.92	331.39
1945	126.91	420.57
1946	107.58	452.45
1947	117.83	533.12
1948	98.10	522.99
1949	89.15	466.25

chosen in the index in the post-war period, is due to the fact
that imports of gold are not included in the index while they
are included in the gross value of imports.

Quantum Index of Imports.

Indices of quantum imports are also arrived at in the
usual way, by dividing the total value of imports by the corres-
ponding price index. The total value of imports is arrived
at by adjusting the official gross value of imports according to
the same proceedure followed in adjusting the chapters. However,
imports of oil and gold are deducted before the adjusting process
and then added to the adjusted value. The resulting quantum
indices are shown on the next page.

It can be seen that the volume of imports was reduced to
almost 50% of its level in 1938 during the war period. The
minimum amount being reached in 1941 where imports amounted to
27% of the pre-war level. In the post war period, the volume
of imports continued to rise until it reached to double the
pre-war volume in 1949. The graph shown after the quantum index
represents the movements of the two quantum indices. It can
be observed that although the volume of exports was increasing
in the post-war period, the volume of imports was increasing at
a faster rate. Compared to the pre-war level, imports became
twice as much in 1949 while exports were still below the pre-
war level. And if we take into consideration that export prices
were falling in the post-war period while import prices continued
to rise, we can realize what a great hardship has been for Syria
and Lebanon to pay for the increased deficit in the balance of

TABLE VIII

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Quantum Indices of Imports

Syria and Lebanon

(1938 - 1949)

Year	Total value Of Imports	Index of Price	Value of M over Price Index	Indices of Quantum 1938 = 100
1938	70,765	100.00	707.65	100
1939	75,569	112.48	671.84	94.94
1940	57,152	147.84	386.58	54.63
1941	40,549	209.27	193.76	27.38
1942	107,083	288.00	371.82	52.54
1943	110,139	338.43	325.44	45.99
1944	93,645	331.39	282.58	39.93
1945	158,553	420.57	377.00	53.27
1946	341,595	452.45	754.99	106.69
1947	459,121	533.12	861.20	121.70
1948	659,531	522.99	1261.08	178.21
1949	675,119	466.25	1447.98	204.62

. ...

quantum index of Imports.

quantum index of Exports.
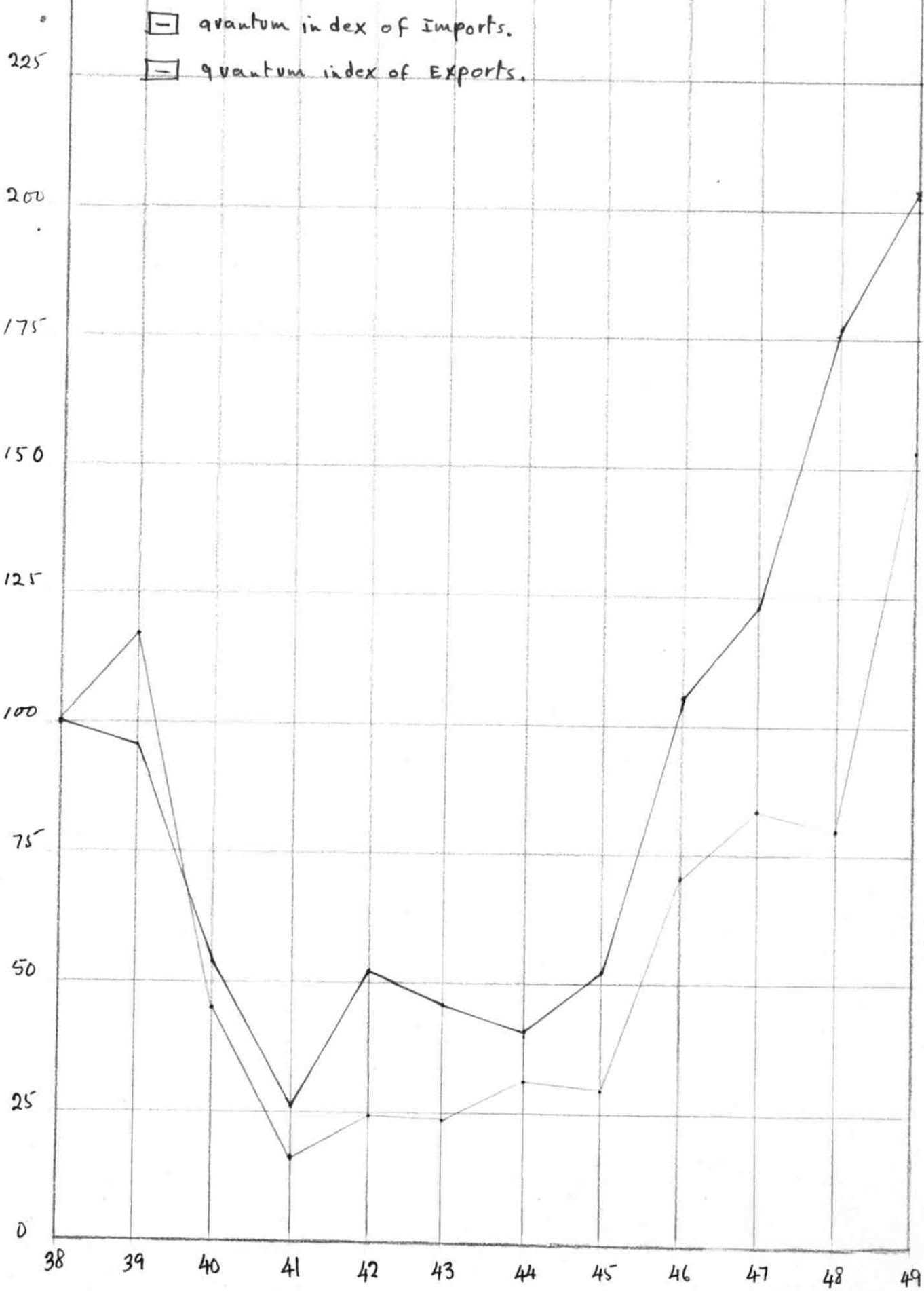
trade. A disappointing situation which has to be watched carefully in the two countries.

Notes and Remarks.

The price index of imports have been rising since 1939, and reached its peak in 1947 where prices of imports became five times as much as they were in 1938. However, the steep rise in the index during the war period was mainly influenced by the high prices of foodstuffs, which constituted a major part of the imports of Syria and Lebanon during this period of time. Unlike prices of exports, import prices continued to rise in the post-war period. This rise in the index may be attributed to the heavy demand for manufactured goods, to replenish the stocks depleted during the war.

The movement of the three indices namely, the export price index, the import price index, and the official wholesale price index are shown graphically on the next page. The wide divergence in the rise of both the wholesale price index and the imports price index, during the war period, may be considered to be real. The excessive margin of profits made by importers on goods imported during this period, accounts for a great deal of this divergence. After 1947, the three indices moved in the same direction and magnitude to approach a position of stability.

. . . .

Legend:
- □ Wholesale price index
- □ Import price index
- □ Export price index
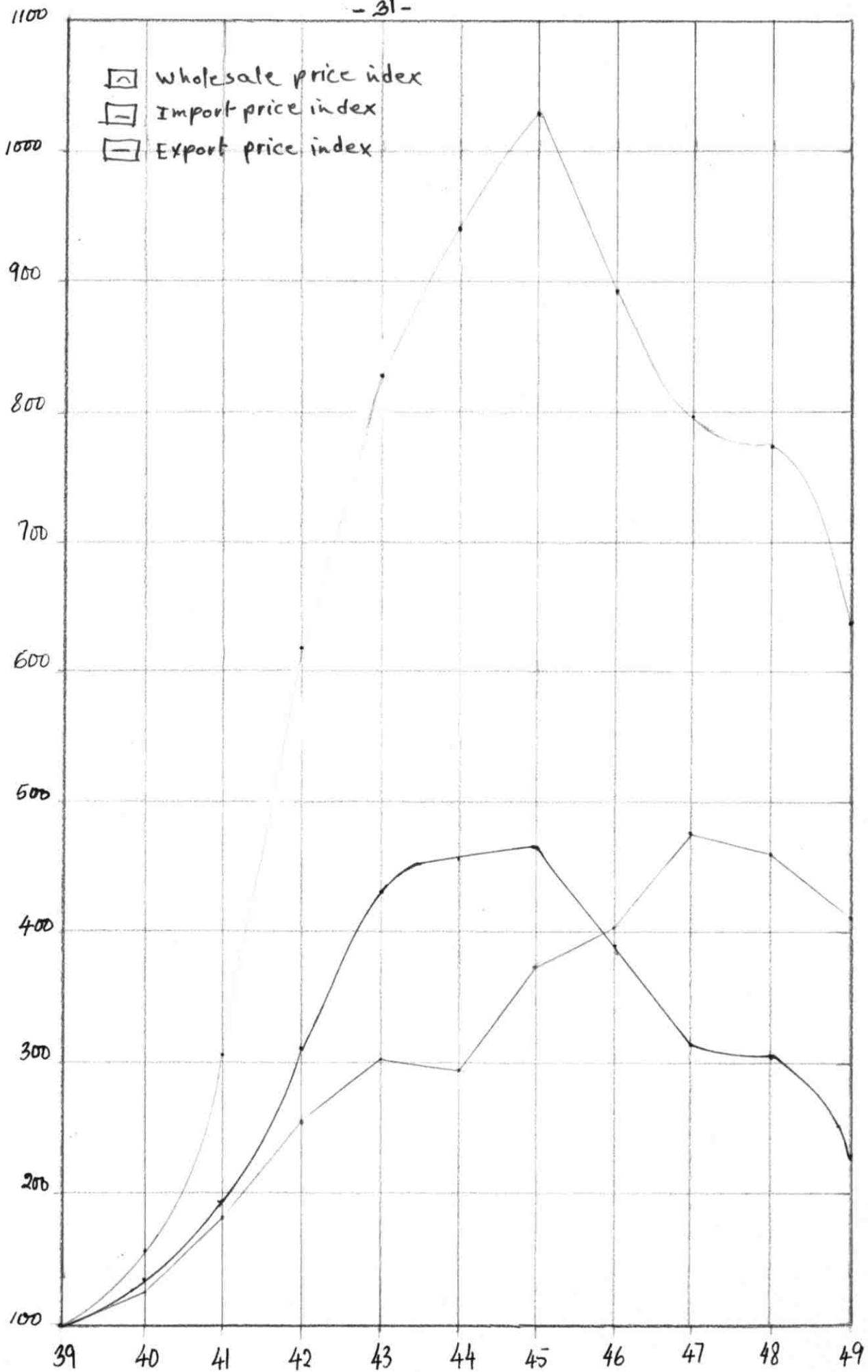
TERMS OF TRADE
. . . .

The terms of trade index was arrived at by dividing the
price index of exports by the price index of imports for every
year. The resulting index would show the movements of the terms
of trade as compared to the situation prevaibing in the base year.
The table on the next page show the movements of the terms of trade
for the two countries since 1938. It will be observed that
the terms of trade had moved in favour of Syria and Lebanon during
the war period, while they have started to move tremendously
against the two countries in the post-war period.

The relative improvement in the prices of exports to the
import prices, was really artificial caused by war restrictions
and regulations. The quantum of exports during the war has
decreased to a level below that of the quantum of imports. The
relative rise in the export prices was really a result of a
scarcity in supply. The inability of the two countries to main-
tain the same terms of trade was directly shown, upon the
abolishing of restrictions on international trade.

Even with a fair allowance being made for changes in the
quality of imports, the tremendous deterioration in the terms of
trade, would stial show an unfavourable situation (probably not
as bad as it appears in the index). The situation would become
more disappodnting if we take into account the fact that Syria
and Lebanon were paying for the deficit in the balance of trade

TABLE IX

· ·

Terms Of Trade Index

Syria and Lebanon

Year	Price index of Exports	Price index of Imports	Index of X over Index of M	Terms of trade index.
1938	100	100	1.0000	100
1939	107	112	0.9554	95.54
1940	150	148	1.0135	101.35
1941	207	209	0.9904	99.04
1942	337	288	1.1701	117.01
1943	464	338	1.3728	137.28
1944	493	331	1.4894	148.94
1945	498	421	1.1829	118.29
1946	415	452	0.9181	91.81
1947	341	533	0.6398	63.98
1948	333	523	0.6367	63.67
1949	246	466	0.5279	52.79

· ·

mainly from balances accumilated ~~during~~ during the war as
a result of sale of goods and services at the war prices.
In other words, these balances would have demanded a larger
quantum of imports during the war period, than what they have
demanded in the post-war period.

The backward movement in the terms of trade, starting in
1945 put Syria and Lebanon back in the category of primary
producing countries, where gradual movement in the terms of
trade have always been in favour of the industrial countries.
The vast deterioration in the terms of trade of Syria and
Lebanon can be attributed primarily to the lack of planning
in foreign as well as domestic economic policies during the
post-war period. It is hoped that the situation can be adjusted
by careful consideration and control of foreign trade relations.

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------------ APPENDEX A -------------
. . . .

The following are the exports and imports classified
according to the United Nations' classification of items.
All kinds of exports and imports are inserted under twenty one
sections (indicated by the Roman figures), with a total of
chapters amounting to eighty six in all the sections (indicated
by the serial number). The letters stand for the order of
every item in its section. e.g. Cereals is the fifth item
in section II, while it comes under chapter 10, and Hide is
the first item insection VII, while it comes under chapter 36.

The present appendex is intended to serve as a reference
for all the statistical calculations of price indeices found in
appendices B and C, where the items are identified by their
numbers only. [1]

. . . .

1. See appendices B and C.

ITEMS

I:	I:	a :	Living animals
:	2:	b :	Meat.
:	3:	c :	Fish.
:	4:	d :	Dairy Products, egg and honey .
:	5:	e :	Raw material and other Primary Products of animal origin
II:	6:	a :	Living Plants and flowers
:	7:	b :	vegitables, plants
:	8:	c :	Consumption fruits
:	9:	d :	Coffee, tea spices
:	I0:	e :	Cereals
:	II:	f :	Mill's products, matt (سويقا) starch
:	I2:	g :	Grains et fuits seeds industrial and medical plants
:	I3:	h :	Raw material for dying and tanning gum and other plant juice
:	I4:	i :	Raw material for other primary products of vegitable origin
III:	I5:	a :	Greasy products, fats oils, alimental fats, wax .
IV:	I6:	a :	Meat and fish products, perch products.
:	I7:	b :	Sugger and its products.
:	I8:	c :	Cocoa and its products
:	I9:	d :	Flower made and starch made products
:	20:	e :	Products of vegitables and consumption plants fruit products
:	2I:	f :	Various alimental products
:	22:	g :	Alchohls, vinegar.
:	23:	h :	Tobbacco
:	24:	! :	Wastes and by products of alimental industries.
V:	25:	a :	Stones, lime, cement, salt, sulfur.
:	26:	b :	Metals
:	27:	c :	Combustible minerals, oil, asphalt and its destillation products
VI:	28:	a :	Pharmaceutical and chemical products.
:	29:	b :	Chemical producs used in photography
:	30:	c :	Dyes, paints lac, ink, penciles
:	3I:	d :	Volatile oils, artificial perfumes, perfumes of all kinds.
:	32:	e :	Soap candles and other greasy products.
:	33:	f :	Gaseine, allumine, gelatine.
:	34:	g :	Explosives and fire - work products.
:	35:	h :	Fertilizers.
VII:	36:	a :	Hide .
:	37:	b :	Hide, made products.
:	38:	c :	Furr.
VIII:	39:	a :	Rubber and its products.
IX:	40:	a :	Timber and timber - made products.
:	4I:	b :	Cork and its products.
:	42:	c :	Straw, made products
X:	43:	a :	Raw material for manufacturing of paper.
:	44:	b :	Paper, Cartoon and their products.
:	45:	c :	Library needs, drawing material.
XI:	46:	a :	Silk, rayon, artificial fiber, metalic strings.
:	47:	b :	Wool, Hair
:	48:	c :	Cotton
:	49:	d :	Hemp, flax, canvas (sack cloth) , jute
:	50:	e :	Felt, ropes and their products.

...../.....

I T E M S

I:	I:	a :	Living animals
:	2:	b :	Meat,
:	3:	c :	Fish,
:	4:	d :	Dairy Products, egg and honey .
:	5:	e :	Raw material and other Primary Products of animal origin
II:	6:	a :	Living Plants and flowers
:	7:	b :	vegitables, plants
:	8:	c :	Consumption fruits
:	9:	d :	Coffee, tea spices
:	IO:	e :	Cereals
:	II:	f :	Mill's products, matt (موتي) starch
:	I2:	g :	Grains et fuits seeds ihdustrial and medical plauts
:	I3:	h :	Raw material for dying and tanning gum and other plant juice
:	I4:	i :	Raw material for other primary products of vegitable origin
III:	I5:	a :	Greasy products, fats oils, alimental fats, wax .
IV:	I6:	a :	Meat and fish products, perch products.
:	I7:	b :	Sugger and its products.
:	I8:	c :	Cocoa and its products
:	I9:	d :	Flower made and starch made products
:	30:	e :	Products of vegitables and consumption plants fruit products
:	2I:	f :	Various alimental products
:	22:	g :	Alchohls, vinegar.
:	23:	h :	Tobbacco
:	24:	1 :	Wastes and by products of alimental industries.
V:	25:	a :	Stones, lime, cement, salt, sulfur.
:	26:	b :	Metals
:	27:	c :	Combustible minerals, oil, asphalt and its destillation products
VI:	28:	a :	Pharmaceutical and chemical products.
:	29:	b :	Chemical producs used in photography
:	30:	c :	Dyes, paints lac, ink, penciles
:	3I:	d :	Volatile oils, artificial perfumes, perfumes of all kinds.
:	32:	e :	Soap candles and other greary products.
:	33:	f :	Gaseine, allumine, gelatine.
:	34:	g :	Explosives and fire - work products.
:	35:	h :	Fertilizers.
VII:	36:	a :	Hide .
:	37:	b :	Hide, made products.
:	38:	c :	Furr.
VIII:	39:	a :	Rubber and its products.
IX:	40:	a :	Timber and timber - made products.
:	4I:	b :	Cork and its products.
:	42:	c :	Straw, made products
X:	43:	a :	Raw material for manufacturing of paper.
:	44:	b :	Paper, Cartoon and their products.
:	45:	c :	Library needs, drawing material.
XI:	46:	a :	Silk, rayon, artificial fiber, metalic strings.
:	47:	b :	Wool, Hair
:	48:	c :	Cotton
:	49:	d :	Hemp, flax, canvas (sack cloth) , jute
:	50:	e :	Felt, ropes and their products.

.../...

I T E M S

```
:  5I:  f  :  Bonnets.
:  52:  g  :  Clothes, ready made type.
  5353:  h  :  Patters and raggary.
XII:  54:  a  :  Shoes
:  55:  b  :  Hats .
:  56:  c  :  Umbrellas,canes
:  57:  d  :  Plumes, plume-m  e article, artificial plumes.
XIII:  58:  a  :  Sto n ey and other mettalic articles.
:  59:  b  :  China ware.
:  60:  c  :  Glass and glass-ware.
XIV:  6I:  a  :  Pearls, precious stones, precious metals and their products
:  62:  b  :  Money
XV:  63:  a  :  Iron and steel
:  64:  b  :  Copper
:  65:  c  :  Nickle.
:  66:  d  :  Aluminum.
:  67:  e  :  Lead .
:  68:  f  :  Zinc.
:  69:  g  :  Tin
:  70:  h  :  Other metals and amalgams
:  7I:  e  :  Other metalic products not included else-where.
XVI:  72:  a  :  Boilers, machines, apparatus, machine inst. and spare parts
:  73:  b  :  Electrical machines a apparatus, other electrical articles
:      :     :  & spare parts.
XVII:  74:  a  :  Railway and tramway needs.
:  75:  b  :  Cars & bycicles, other delivery equipment
:  76:  c  :  Aviation and navigation needs.
XVIII:  77:  a  :  Optical instruments & apparatus
:  78:  b  :  Horologe .
:  79:  c  :  Musical instruments.
XIX:  80:  a  :  Arms .
:  8I:  b  :  Ammunition
XX:  82:  a  :  Articles not included else-where, made of natural or art.
:      :     :  material suitable for casting or sculpture
:  83:  b  :  Raw Materials for Brushes industry, painters brushes.
:  84:  c  :  Games, toys, sports articles
:  85:  d  :  articles made of different material, buttons, porte plu-
:      :     :  mes, perciles, smoker's needs
:  86:  e  :  Objects of art & collection.
```

I T E M S

```
:  5I:  f :  Bonnets.
:  52:  g :  Glothes, ready made type.
  5353:  h :  Patters and raggary.
XII:  54:  a :  Shoes
:  5X:  b :  Hats .
:  56:  c :  Umbrellas, canes
:  57:  d :  Plumes, plume-m.. e article, artificial plumes.
XIII:  58:  a :  Ston ey and other mettalic articles.
:  59:  b :  China ware.
:  60:  c :  Glass and glass--ware.
XIV:  6I:  a :  Pearls, precious stones, precious metals and their products
:  62:  b :  Money
XV:  63:  a :  Iron and steel
:  64:  b :  Gopper
:  65:  c :  Nickle.
:  66:  d :  Aluminum.
:  67:  e :  Lead .
:  68:  f :  Zinc.
:  69:  g :  Tin
:  70:  h :  Other metals and amalgams
:  7I:  e :  Other metalic products not included else-where.
XVI:  72:  a :  Boilers, machines, apparatus, machine inst. and spare parts
:  73:  b :  Electrical machines a apparatus, other electrical articles
:      :    :  & spare parts.
XVII:  74:  a :  Railway and tramway needs.
:  75:  b :  Cars & bycicles, other delivery équipment
:  76:  c :  Aviation and navigation needs.
XVIII:  77:  a :  Optical instruments & apparatus
:  78:  b :  Horologe .
:  79:  c :  Musical instruments.
XIX:  80:  a :  Arms .
:  8I:  b :  Ammunition
XX:  82:  a :  Articles not included else-where, made of natural or art.
:      :    :  material suitable for casting or sculpture
:  83:  b :  Raw Materials for Brushes industry, painters brushes.
:  84:  c :  Games, toys, sports articles
:  85:  d :  articles made of different material, buttons, porte plu-
:      :    :  mes, perciles, smoker's needs
:  86:  e :  Objects of art & collection.
```

-------------- APPENDEX B ----------------
● ● ● ● · · · · · · · · · ●

The following are the statistical calculations of the
price indices of exports. The figures in the column in-
dicated by P Q are the values of exported goods in thousands
Lebaneese pounds. Column Q is the quantity exported either
in tons or in numbers. The figures in these two columns are
taken from Statistiques Du Commerce Exterieur issued by
Conceil Superieur Des Interets Communs. Column P which is
the price is arrived at by dividing value figures by quantity
figures in the previous two columns. Column $P_1 Q_0$ is arrived
at by multiplying prices of the current year by quantities
of the base year, while column $P_0 Q_1$ is arrived at by multiplying
prices of the base year by quantities of the current year, as
it is shown in the tables.

● ● ● ● ● ● ● ● ● ● ● ● ● · · · · · · · · · · · · ●

EXPORTS 1939

			1939			1938			$P_1 Q_0$	$P_0 Q_1$
			$F_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
I	1	a	571	55245	0.010	639	60048	0.011	600	608
	4	d	1771	6232	0.284	1783	6748	0.264	1916	1645
	5	e	795	1215	0.654	515	1842	0.279	1205	339
II	7	b	4083	74474	0.055	3343	68101	0.049	3746	3649
	8	c	3278	42294	0.078	3065	43877	0.069	3422	2918
	10	e	3432	73900	0.046	2514	61368	0.041	2818	3030
	11	f	655	12793	0.051	383	10012	0.038	511	486
	12	g	882	15726	0.056	689	9890	0.069	554	1085
	13	h	192	705	0.272	118	575	0.205	156	145
III	15	a	3383	10532	0.321	2682	9088	0.295	2917	3107
IV	17	b	509	4.169	0.123	383	3328	0.115	406	479
	19	d	149	901	0.165	112	740	0.151	123	136
	20	e	846	6100	0.139	778	5109	0.152	710	927
	23	h	945	1855	0.509	825	1931	0.437	983	792
V	25	a	578	45653	0.013	686	127328	0.005	1655	238
VI	32	e	197	875	0.225	246	1118	0.220	252	193
VII	36	a	1487	1986	0.749	1423	2024	0.703	1516	1396
IX	40	a	275	2404	0.114	292	1829	0.159	209	382
X	44	b	163	363	2.449	99	341	0.290	153	105
XI	46	a	2352	1015	2.219	1748	1130	1.546	2507	1569
	47	b	4181	4770	0.877	1794	1987	0.903	1743	4303
	48	c	1553	3765	0.412	1338	3016	0.444	1243	1672
	50	e	116	352	0.330	96	359	0.267	118	94
	51	f	244	83	2.939	144	49	2.938	144	244
	52	g	1358	666	2.039	1123	564	1.991	1150	1326
XII	54	a	696	462	1.506	650	417	1.559	638	730
XV	63	a	289	3166	0.091	217	4802	0.045	437	142
XVI	72	a	118	232	0.509	211	128	1.648	65	382
XVII	75	b	168	234	0.750	181	240	0.754	180	169
			32265			28076			32066	32271

EXPORTS 1939
Continued.

. . . .

$P_1 Q_1 : 32,265$

$P_0 Q_1 : 32,271$

$P_1 Q_0 : 32,066$

$P_0 Q_0 : 26,076$

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{32,265 \quad x \quad 32,066}{32,271 \quad x \quad 28,076} \quad x \quad 100$$

$$= 0.9998 \quad x \quad 1.1421 \quad x \quad 100$$

$$= 1.1419 \quad x \quad 100$$

$$= 1.0686 \quad x \quad 100$$

$$= \underline{\underline{106.86}}$$

. . . .

EXPORTS 1940

			1940			1939			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
I:	4:	d)	949:	3239:	0,294	1771:	6233:	0,284	1833:	917:
:	5:	e)	535:	597:	0,879	795:	1215:	0,654	1068:	390:
II:	7:	b)	2839:	38103:	0,075	4083:	74474:	0,055	5586:	2096:
:	8:	c)	1777:	19263:	0,093	.3738:	43394:.	0,078	3891:	1503:
:	10:	e)	1727:	27441:	0,063	3432:	73900:	0,046	4656:	1263:
:	11:	f)	114:	2398:	0,048	655:	12793:	0,051	614:	122:
:	12:	g)	653:	5673:	0,115	882:	15736:	0,056	1808:	318:
:	13:	h)	274:	654:	0,418	192:	705:	0,273	295:	178:
III:	15:	a)	183:	330:	0,554	3382:	10533:	0,321	5835:	106:
IV:	17:	b)	92:	341:	0,270	509:	4169:	0,122	1123:	42:
:	19:	d)	99:	369:	0,268	149:	901:	0,165	241:	61:
:	20:	e)	322:	1919:	0,168	846:	6100:	0,139	1025:	267:
:	23:	h)	1329:	1875:	0,708	945:	1855:	0,509	1313:	954:
V:	25:	a)	193:	9980:	0,019	578:	45653:	0,013	867:	130:
VI:	32:	e)	310:	669:	0,463	197:	875:	0,225	405:	151:
VII:	36:	a)	397:	376:	1,056	1487:	1986:	0,749	2097:	283:
X:	44:	b)	149:	226:	0,659	163:	363:	0,449	239:	101:
XI:	46:	a)	1491:	381:	3,913	2253:	1015:	2,219	3972:	845:
:	47:	b)	3576:	2739:	1,310	4181:	4770:	0,877	6349:	2393:
:	48:	c)	182:	236:	0,771	1553:	3765:	0,412	2903:	97:
:	50:	e)	94:	173:	0,543	116:	352:	0,330	191:	57:
:	51:	f)	90:	20:	4,500	244:	83:	2,939	374:	59:
:	53:	g)	649:	251:	2,585	1358:	666:	2,039	1732:	512:
XII:	54:	a)	246:	141:	1,745	696:	463:	1,506	806:	212:
XV:	63:	a)	178:	605:	0,294	289:	3166:	0,913	931:	553:
			18438:			34483:			50043:	13606:

EXPORTS 1940
Continued.

. . . .

$P_1 Q_1$: 18,438 $P_1 Q_0$: 50,043

$P_0 Q_1$: 13,606 $P_0 Q_0$: 34,483

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{18,438 \quad x \quad 50,043}{13,606 \quad x \quad 34,483} \quad x \quad 100$$

$$= 1.3551 \quad x \quad 1.4512 \quad x \quad 100$$

$$= 1.9665 \quad x \quad 100$$

$$= 1.4023 \quad x \quad 100$$

$$= \underline{140.23}$$

. . . .

EXPORTS 1941

			1941			1940			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
	I:	a)	78:	357:	0.218)	65:	.6412:	0.010)	1398:	4:
	4:	d)	711:	1412:	0.504)	949:	3229:	0.294)	1627:	415:
	5:	e)	243:	130:	1.278)	525:	597:	0.879)	763:	167:
II:	7:	b)	729:	6993:	0.104)	2839:	38103:	0.075)	3963:	524:
	8:	c)	473:	2661:	0.178)	1777:	19262:	0.092)	3429:	245:
	10:	e)	19:	188:	0.101)	1727:	27441:	0.063)	2772:	13:
	11:	f)	24:	104:	0.231)	114:	2398:	0.048)	554:	5:
	12:	g)	530:	2670:	0.199)	655:	5672:	0.115)	1129:	307:
	13:	h)	4:	21:	0.190)	274:	654:	0.419)	124:	9:
III:	15:	a)	71:	57:	1.245)	183:	330:	0.554)	411:	32:
IV:	19:	d)	13:	48:	0.271)	99:	369:	0.368)	100:	13:
	20:	e)	558:	1885:	0.296)	322:	1919	0.168)	568:	317:
	23:	h)	1156:	1739:	0.664)	1329:	1875:	0.708)	1245:	1231:
V:	25:	a)	285:	4963:	0.057)	193:	9980:	0.019)	569:	94:
VI:	32:	e)	429:	658:	0.651)	310:	669:	0.463)	436:	305:
VII:	36:	a)	145:	154:	0.941)	397:	376:	1.056)	354:	163:
IX:	40:	a)	82:	733:	0.112)	60:	253:	0.237)	28:	174:
X:	44:	b)	22:	6:	3.667)	149:	226:	0.659)	839:	4:
XI:	46:	a)	645:	141:	4.574)	1491:	381:	3.913)	1743:	553:
	47:	b)	3842:	2582:	1.487)	3576:	2729:	1.310)	4058:	3382:
	48:	c)	134:	144:	0.931)	182:	236:	0.771)	220:	111:
	50:	e)	278:	370:	0.751)	94:	173:	0.543)	130:	201:
	52:	g)	189:	54:	3.500)	649:	251:	2.585)	879:	140:
XII:	54:	a)	34:	24:	1.417)	246:	141:	1.745)	200:	43:
			10694:			18303:			27539:	8449:

EXPORTS 1941
Continued.

. . . .

$P_1 Q_1$: 10,694 $P_1 Q_0$: 27,529

$P_0 Q_1$: 8,449 $P_0 Q_0$: 18,203

$$\sqrt{\dfrac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \dfrac{10,694 \quad x \quad 27,529}{8,449 \quad x \quad 18,203} \quad x \quad 100$$

$$= 1.2657 \quad x \quad 1.5123 \quad x \quad 100$$

$$= 1.9141 \quad x \quad 100$$

$$= 1.3835 \quad x \quad 100$$

$$= \underline{138.35}$$

. . . .

EXPORTS 1942

			1942				1941			$P_1 Q_0$	$P_0 Q_1$
			P_1 Q_1	Q_1	P_1	$P_0 Q_0 Q$	Q_0	P_0		
I:	I:	a)	I8I:	569:	0.3I8	78:	357:	0.2I8	II4:	I24:
:	3:	c)	2I6:	I72:	I.256	24:	II9:	0.202	I49:	35:
:	4:	d)	26:	23:	I.I30	7II:	I4I2:	0.504	I596:	I2:
:	5:	e)	498:	I24:	4.0I6	243:	I90:	I.278	763:	I58:
II:	7:	b)	837:	396I:	0.2II	729:	6993:	0.I04	568:	4I2:
:	8:	c)	7I0:	I932:	0.368	473:	266I:	0.I78	979:	344:
:	I2:	g)	7II:	3603:	0.I97	530:	2670:	0.I99	536:	7I7:
IV:	20:	c)	5I9:	783:	0.663	558:	I885:	0.296	I250:	232:
:	23:	h)	I84I:	2338:	0.787	II56:	I739:	0.664	I369:	I552:
V:	35:	a)	2I7:	I627:	0.I33	285:	4.963	0.057	660:	93:
VI:	32:	e)	4I2:	378:	I.090	429:	658:	0.65I	7I7:	246:
VII:	36:	a)	I37:	I46:	0.938	I45:	I54:	0.94I	I44:	I37:
IX:	40:	a)	244:	985:	0.248	82:	733:	0.II2	I82:	II0:
XI:	46:	a)	4566:	25I:	I8.I9?	645:	I4I:	4.574	2565:	II48:
:	47:	h)	9I4I:	5265:	I.736	3842:	2582:	I.487	4482:	7829:
:	48:	c)	608:	II5:	5.287	I34:	I44:	0.93I	76I:	I07:
:	49:	d)	227:	248:	0.9I5	23:	35:	0.657	32:	I63:
:	50:	e)	328:	322:	I.0I9	278:	370:	0.75I	377:	242:
:	52:	g)	II08:	I73:	6.405	I89:	54:	3.500	346:	606:
XII:	54:	a)	203:	66:	3.076	34:	24:	I.4I7	74:	94:
			22730			I0588			I7654:	I436I:

EXPORTS 1942
Continued.

. . . .

$P_1 Q_1$: 22,730 $\qquad$ $P_1 Q_0$: 17,654

$P_0 Q_1$: 14,361 $\qquad$ $P_0 Q_0$: 10,588

$$\sqrt{\dfrac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \dfrac{22{,}730 \quad x \quad 17{,}654}{14{,}361 \quad x \quad 10{,}588} \quad x \quad 100$$

$= 1.5828 \quad x \quad 1.6674 \quad x \quad 100$

$= 2.6392 \quad x \quad 100$

$= 1.6246 \quad x \quad 100$

$= \underline{\underline{162.46}}$

. . . .

EXPORTS 1943

			1943				1942				P₁	Q₀	P₀	Q₁
			P_1	Q_1	Q_1	P_1	P_0	Q_0	Q_0	P_0				
I:	I:	a)	154:	198:	0,777)		181:	569:	0,318		442:		63:	
:	5:	c)	381:	185:	2,059		498:	124:	4,016		255:		743:	
II:	7:	b)	927:	2206:	0,430)		837:	3961:	0,211		1664:		465:	
:	8:	c)	1849:	3780:	0,489		710:	1932:	0,368		914:		1391:	
:	13:	g)	1168:	2397:	0,487		711:	3603:	0,197		1755:		472:	
IV:	20:	e)	1576:	1826:	0,863		519:	783:	0,663		676:		1211:	
:	23:	h)	531:	351:	I,513)		1611:	2338:	0,787		3537:		376:	
V:	25:	a)	2053:	31197:	0,066		217:	1627:	0,133		107:		4149:	
VI:	29:	b)	82:	2:	37/333		81:	4:	20,350		109:		61:	
:	33:	e)	732:	322:	3,273		412:	378:	I,090		846:		351:	
VII:	37:	b)	185:	25:	7,400		76:	20:	3,800		148:		95:	
IX:	40:	d)	594:	2299:	0,258		344:	985:	0,248)		254:		570:	
XI:	46:	a)	9739:	354:	27,511		4566:	251:	18,191		6905:		6440:	
:	47:	b)	2319:	1196:	I,938		9141:	5265:	I,736		10204:		3076:	
:	48:	c)	3731:	382:	9,897		608:	115:	5,287		1138:		2030:	
:	50:	e)	310:	134:	2,313		328:	322:	I,019		745:		137:	
:	52:	g)	2042:	190:	10 747)		1108:	173:	6,405		1859:		1217:	
XII:	54:	a)	444:	55:	8,072)		203:	66:	3,075)		533:		169:	
			28867				22381				32121:		21906:	

EXPORTS 1943
Continued.

....

$P_1 Q_1$: 28,867　　　　　　　　　$P_1 Q_0$: 32,121

$P_0 Q_1$: 21,906　　　　　　　　　$P_0 Q_0$: 22,281

$$\sqrt{\dfrac{P_1 Q_1 \quad \times \quad P_1 Q_0}{P_0 Q_1 \quad \times \quad P_0 Q_0}} \quad \times \quad 100$$

$$= \dfrac{28,867 \quad \times \quad 32,121}{21,906 \quad \times \quad 22,281} \quad \times \quad 100$$

$= 1.3178 \quad \times \quad 1.4416 \quad \times \quad 100$

$= 1.8997 \quad \times \quad 100$

$= 1.3783 \quad \times \quad 100$

$= \underline{137.83}$

....

EXPORTS 1944

			1944			1943			P₁ Q₀	P₀ Q₁
			P_1	Q_1	P_1	P_0	Q_0	P_0		
I:	I:	a)	159:	1284:	0.124)	154:	198:	0.770)	35:	998:
:	4:	d)	589:	547:	1.077)	280:	95:	2.947)	102:	1612:
:	5:	e)	268:	329:	0.815)	381:	185:	2.059)	151:	677:
II:	7:	b)	1837:	8070:	0.228)	927:	2206:	0.420)	503:	3389:
:	8:	c)	2173:	2878:	0.755)	1849:	3780:	0.489)	2854:	1407:
:	10:	e)	11003:	24146:	0.456)	1766:	4708:	0.375)	2147:	8620:
:	12:	g)	1512:	3342:	0.646)	1168:	2397:	0.487)	1548:	1141:
:	13:	h)	81:	128:	0.633)	123:	76:	1.618)	48:	207:
IV:	20:	e)	1604:	2121:	0.756)	1676:	1826:	0.663)	1380:	1830:
:	23:	h)	5004::	3237:	1.546)	531:	351:	1.513)	543:	4898:
V:	25:	a)	3864:	59821:	0.048)	2053:	31197:	0.066)	1497:	3948:
:	27:	c)	159:	10006:	0.016)	71:	93:	0.763)	1:	7635:
VI:	33:	e)	740:	230:	3.217)	732:	323:	2.373)	1086:	523:
VII:	37:	b)	360:	26:	13.846)	185:	25:	7.400)	346:	192:
IX:	40:	a)	753:	1846:	0.408)	594:	2299:	0.258)	938:	476:
XI:	46:	a)	10978:	271:	40.509)	9759:	354:	27.511)	14340:	7455:
:	47:	b)	535:	255:	2.098)	2319:	1196:	1.938)	2508:	494:
:	49:	c)	620:	52:	11.923)	3781:	383:	9.896)	4555:	515:
:	50:	e)	933:	329:	2.836)	310:	134:	2.313)	280:	761:
:	52:	g)	1137:	80:	14.088)	2043:	190:	10.747)	2677:	860:
XII:	54:	a)	385:	34:	11.323)	444:	55:	8.072)	623:	274:
XX:	83:	b)	86:	27:	3.185)	110:	73:	1.507)	233:	41:
			43769			31135			38436	47953

EXPORTS 1944
Continued.
. . . .

$P_1 Q_1$: 43,769 $P_1 Q_0$: 38,436

$P_0 Q_1$: 47,953 $P_0 Q_0$: 31,135

$$\sqrt{\dfrac{P_1 Q_1 \times P_1 Q_0}{P_0 Q_1 \times P_0 Q_0}} \times 100$$

$$= \dfrac{43,769 \times 38,436}{47,953 \times 31,135} \times 100$$

$= 0.9127 \times 1.2345 \times 100$

$= 1.1267 \times 100$

$= 1.0615 \times 100$

$= \underline{106.15}$

. . . .

EXPORTS I945

			1945			1944			P	Q	P	Q
			PQ	Q	P	P	Q	P				
I:	I:	a	I6I:	202:	0,797:	I59:	I284:	0,I24	I023:	25		
:	4:	d	I080:	I025:	I.054:	589:	547:	I.077	577:	II04		
:	5:	e	487:	I68:	3,898	268:	329:	0,8I5	953:	I37		
II:	7:	b	I2I37:	29I86:	0,4I5	I837:	8070:	0,228	3349:	6654		
:	8:	c	5962:	II020:	0,54I	2I72:	2878:	0,755	I557:	8320		
:I0:		e	I906:	50II:	0,380	II003:	24I46:	0,456	9I75:	2285		
:I2:		g	2430:	4094:	0,594	I5I2:	2342:	0,646	I39I:	2645		
:I3:		h	I63:	I55:	I.05I	CI:	I28:	0,633	I35:	98		
IV:20:		c	2392:	23I0:	I,035	I604:	2I2I:	0,756	2I95:	I746		
:23:		h	23I2:	I5II:	I530	5004:	3237:	I.546	4953:	2336		
V:25:		a	2693:	5I3I9:	0,052	2864:	5982I:	0,048	3III:	2463		
:27:		c	448:	30457:	0,0I5	I59:	I0006:	0,0I6	I50:	487		
VI:5I:		d	99:	6:	I6,500	I60:	4:	40,000	66:	340		
:35:		g	I2I7:	260:	4,68I	I50:	33:	4,545	I54:	II82		
VII:36:		a	I3I:	27:	4,48I	I23:	38:	3,236	I70:	87		
:37:		d	I73:	I6:	I0,750	360:	26:	I3,846	280:	323		
IX:40:		a	434:	909:	0,474	753:	I846:	0,408	875:	37I		
XI:46:		a	5668:	I63:	34,773	I0978:	27I:	40,509	9423:	6603		
:47:		b	I5I:	59:	2,559	535:	255:	2,098	653:	I24		
:50:		e	758:	373:	2,032	933:	329:	2,836	669:	I058		
:52:		g	904:	I28:	7,063	II27:	80:	I4,088	565:	I803		
XII:54:		a	437:	28:	I5,250	385:	34:	II,323	5I9:	3I7		
XIII:60:		c	324:	203:	I,596	486:	239:	2,033	38I:	4I3		
XV:63:		a	I48:	I3I:	I,I39	77:	II0:	0,700	I24:	92		
XX:83:		b	80:	39:	2,05I	86:	27:	3,I85	55:	I24		
			42674			43405			43503	40936		

EXPORTS 1945
Continued.
. . . .

$P_1 Q_1$: 42,674

$P_0 Q_1$: 40,936

$P_1 Q_0$: 42,503

$P_0 Q_0$: 43,405

$$\sqrt{\frac{P_1 Q_1 \quad \times \quad P_1 Q_0}{P_0 Q_1 \quad \times \quad P_0 Q_0}} \times 100$$

$$= \frac{42,674 \times 42,503}{40,936 \times 43,405} \times 100$$

$= 1.0425 \times 0.9792 \times 100$

$= 1.0208 \times 100$

$= 1.0104 \times 100$

$= \underline{\underline{101.04}}$

. . . .

EXPORTS 1946

			1946			1945				$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	P_0	Q_0	Q_0	P_0		
I:	I:	a)	231:	942:	0,245)	I6I:	202:	0,797)	49:	75I:
:	4:	d)	5336:	3166:	I,685)	I080:	I025:	I,054)	I727:	3337:
:	5:	e)	520:	589:	0,883)	487:	I68:	2,898)	I48:	I707:
II:	7:	b)	I3505:	474I5:	0,285)	I2I37:	39I86:	0,4I5)	83I8:	I9677:
:	8:	c)	7362:	I5969:	0,46I)	5,962	II020:	0,54I)	5080:	8639:
:	I0:	e)	285:	I766:	0,I6I)	I906:	50II:	0,380)	807:	67I:
:	I2:	g)	384I:	6547:	0,587)	2430:	4094:	0,594)	2403:	3889:
:	I3:	h)	320:	350:	0,9I4)	I63:	I55:	I,05I)	I42:	368:
III:	I5:	a)	I2859:	52I8:	2,464)	I:	I:	I,000)	2:	52I8:
IV:	I7:	b)	704:	389:	I,8I0)	39:	I4:	2,07I)	25:	806:
:	20:	e)	23I4:	2II9:	I,093)	3393:	33I0:	I,035)	2523:	2I93:
:	22:	g)	I5I:	235:	0,643)	87:	24:	3,625)	I5:	852:
:	23:	h)	3822:	2240:	I,706)	23I2:	I5II:	I,530)	3387:	2I2:
V:	25:	a)	270:	4074:	0,066)	2693:	5I3I9:	0,052)	3387:	2I2:
:	27:	c)	237:	40I3:	0,059)	448:	30457:	0,0I5)	I797:	60:
VI:	3I:	d)	333:	2I:	I5,857)	99:	6:	I6,500)	95:	347:
:	32:	e)	3035:	I439:	2,I09)	3:	I:	3,000)	2:	43I7:
:	34:	g)	I249:	447:	2,794)	I2I7:	260:	4,68I)	726:	2092:
VII:	36:	a)	3468:	I278:	2,7I4)	I2I:	27:	4,48I)	73:	5453:
:	37:	b)	209:	39:	5,358)	I72:	I6:	I0,750)	86:	4I9:
VIII:	40:	a)	580:	558:	I,039)	434:	909:	0,474)	944:	264:
X:	44:	b)	I4I:	45:	3,I33)	I52:	II0:	I,38I)	345:	62:
XI:	46:	a)	55I0:	262:	2I,03I)	5668:	I63:	34,773)	3428:	9III:
:	47:	b)	4536:	3I03:	I,46I)	I5I:	59:	2,559)	86:	794I:
:	48:	c)	7066:	89I:	7,930)	I6:	I:	I6,000)	8:	I4256:
:	49:	d)	438:	2I9:	2,000)	2I:	82:	0,256)	I64:	56:
:	50:	e)	9I0:	380:	2,395)	758:	373:	2,032)	893:	772:
:	5I:	f)	466:	I8:	25,889)	I45:	I:	I45,000)	26:	26I0:
:	52:	g)	2I84:	267:	8,I79)	904:	I28:	7,063)	I047:	I886:
XII:	54:	a)	988:	I39:	7,I08)	427:	28:	I5,250)	I99:	2I20:
XIII:	60:	c)	I82:	I75:	I,040)	324:	203:	I,596)	2II:	279:
XV:	63:	a)	462:	800:	0,578)	I48:	I3I:	I,I29)	76:	903:
			835I4:			43048:				374I0:	I04695:

EXPORTS 1946
Continued.

....

$P_1 Q_1$: 83,514

$P_0 Q_1$: 104,695

$P_1 Q_0$: 37,410

$P_0 Q_0$: 43,048

$$\sqrt{\dfrac{P_1 Q_1 \quad \times \quad P_1 Q_0}{P_0 Q_1 \quad \times \quad P_0 Q_0}} \quad \times \quad 100$$

$$= \dfrac{83,514 \quad \times \quad 37,410}{104,695 \quad \times \quad 43,048} \quad \times \quad 100$$

$= 0.7977 \times 0.8690 \times 100$

$= 0.6932 \times 100$

$= 0.8326 \times 100$

$= \underline{83.26}$

....

EXPORTS 1947

			1947			1946			P_1Q_0	P_0Q_1
			P_1Q_1	Q_1	P_1	P_0Q_0	Q_0	P_0		
I	1	a)	135	531	0.254	231	943	0.245	239	130
	4	d)	7077	3346	2.115	5336	3166	1.685	6696	5638
	5	e)	738	2020	0.365	520	589	0.885	215	1784
II	7	b)	7281	41531	0.175	13505	47415	0.285	8298	11836
	8	c)	7542	18058	0.406	7362	15969	0.461	6483	8335
	10	e)	8155	28144	0.290	285	1766	0.161	513	4531
	13	g)	.4664	15015	0.311	3841	6547	0.587	2036	8814
	13	h)	337	427	0.789	320	350	0.914	276	390
III	15	a)	2725	1135	2.422	12869	5218	2.464	12637	2772
IV	17	b)	673	453	1.486	704	389	1.809	578	819
	20	e)	1704	2455	0.694	2314	2119	1.092	1471	2681
	22	g)	202	174	1.161	151	235	0.643	273	112
	23	h)	3438	3030	1.131	3822	2240	1.706	2533	5169
V	35	a)	173	4714	0.037	270	4074	0.066	151	311
	37	c)	253	4265	0.059	237	4013	0.059	237	252
VI	28	a)	244	179	1.363	129	24	5.375	33	962
	31	d)	215	27	7.963	333	21	15.857	167	438
	32	e)	2335	977	2.380	3035	1439	2.109	3425	2060
	34	g)	316	190	1.658	1249	447	2.794	741	531
VII	36	a)	2851	1255	2.272	3468	1278	2.714	2904	3406
	37	b)	161	39	4.128	209	39	5.358	161	209
VIII	39	a)	324	274	1.182	123	71	1.718	84	471
IX	40	a)	719	603	1.193	580	558	1.039	665	627
X	44	b)	125	36	3.472	141	45	3.133	156	113
	45	c)	134	35	3.829	142	33	4.303	126	151
XI	46	a)	7152	496	14.419	5510	263	21.031	3778	10431
	47	b)	5084	3789	1.342	4536	3103	1.461	4164	5536
	48	c)	10427	1564	6.666	7066	891	7.930	5939	13403
	50	e)	533	314	1.697	910	380	2.395	645	753
	51	f)	166	23	7.217	466	18	25.889	130	595
	52	g)	2327	238	9.777	3184	367	8.179	2610	1947
XII	54	a)	938	171	5.485	988	139	7.108	762	1215
XIII	60	b)	230	391	0.588	182	175	1.040	1.03	407
XV	63	a)	888	6068	0.146	462	800	0.578	117	3507
	64	b)	272	112	2.428	188	70	2.686	170	301
XVI	72	a)	256	126	2.032	170	228	0.746	463	84
			80773			83827			69978	99710

EXPORTS 1947
Continued.

....

$P_1 Q_1$: 80,773 $P_1 Q_0$: 69,978

$P_0 Q_1$: 99,710 $P_0 Q_0$: 83,827

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{80,773 \quad x \quad 69,978}{99,710 \quad x \quad 83,827} \quad x \quad 100$$

$= 0.8101 \quad x \quad 0.8348 \quad x \quad 100$

$= 0.6763 \quad x \quad 100$

$= 0.8224 \quad x \quad 100$

$= \underline{82.24}$

....

EXPORTS 1948

			1948			1947			P	Q
			P	Q	P	P	Q	P		
I:	4:	d	636:	318:	1.984.	7077:	3346:	2.115:	6638:	673
:	5:	e	791:	2958:	0.267	738:	2020:	0.365	539:	1080
II:	7:	b	5445:	28400:	0.192	7281:	41531:	0.175	7974:	4970
:	8:	c	3619:	10910:	0.332	7542:	18058:	0.406	5995:	4439
:	10:	e	11921:	29714:	0.401	8155:	28144:	0.290	11286:	8617
:	11:	f	930:	1792:	0.519	727:	3330:	0.218	1728:	391
:	12:	g	2706:	8301:	0.326	4664:	15015:	0.311	4895:	2582
:	13:	h	478:	543:	0.880	337:	427:	0.789	376:	428
III :	15:	a	1626:	851;	1.911	2725:	1125:	2.422	2150:	2061
IV :	17:	b	295:	222:	1.329	673:	453:	1.486	602:	330
:	20:	e	1515:	2149:	0.704	1704:	2455:	0.694	1728:	1491
:	22:	g	276:	278:	0.993	202:	174:	1.161	173:	323
:	23:	h	2177:	2409:	0.904	3428:	3030:	1.131	2739:	2725
V :	25:	a	142:	3211:	0.044	173:	4714:	0.037	207:	119
:	27:	c	581:	5263:	0.110	253:	4265:	0.059	469:	311
VI :	28:	a	381:	253:	1.506	244:	179:	1.363	270:	345
:	30:	c	168:	145:	1.159	112:	180:	0.622	209:	90
:	32:	e	4888:	1974::	2.476	2325	977:	2.380	2419:	4698
VII :	36:	a	1757:	1122:	1.566	3851:	1255:	2.272	1965:	2549
:	37:	b	161:	41:	3.926	161:	39:	4.128	153:	169
VIII ::	39:	a	346:	240:	1.443	324:	274:	1.182	395:	284
IX :	40:	a	842:	1302:	0.647	719:	603:	1.192	890:	1552
X :	44:	b	658:	188:	3.500	125:	36:	3.472	126:	653
:	45:	c	254:	80:	3.175	134:	35:	3.829	111:	306
XI :	46:	a	8310:	580:	14.328	7152:	496:	14.419	7107:	8363
:	47:	b	4682:	4143:	1.130	5084:	3789:	1.342	4282:	5560
:	48:	c	4855:	806:	6.023	10437:	1564:	6.666	9420:	5373
:	50:	e	374:	212:	1/764	533:	314:	1.697	554:	360
:	51:	f	307:	32:	9/593	166:	23:	7.217	221:	231
:	52:	g	2697:	352:	7.661	2337:	238:	9/777	1825:	3442
:	53:	h	322:	77:	4.181	159:	77:	2.065	323:	159
XII :	54:	a	641:	140:	4.579	938:	171:	5.485	783:	768
XIII :	60:	c	198:	238:	0.832	230:	391:	0.588	325:	140
XV :	63:	a	2384:	9231:	0.258	888:	6068:	0.146	1570:	1348
:	64:	b	405:	287:	1.411	372:	112:	3.428	158:	697
XVI :	72:	a	3301:	1494:	2.209	256:	126:	2.032	278:	3036
XVII :	75:	b	5428:	1864:	2.912	886:	112:	2.554	326:	3816
XX :	82:	a	119:	16:	7.436	398:	33:	12.061	245:	193
			72111			81790			80953	74662

EXPORTS 1948
Continued.

....

$P_1 Q_1$: 72,111 $P_1 Q_0$: 80,953

$P_0 Q_1$: 74,662 $P_0 Q_0$: 81,790

$$\sqrt{\frac{P_1 Q_1 \quad \times \quad P_1 Q_0}{P_0 Q_1 \quad \times \quad P_0 Q_0}} \times 100$$

$$= \frac{72,111 \times 80,953}{74,662 \times 81,790} \times 100$$

$= 0.9658 \times 0.9898 \times 100$

$= 0.9559 \times 100$

$= 0.9777 \times 100$

$= \underline{97.77}$

....

EXPORTS 1949

				1949			1948			P	Q	:	P	Q
			P	Q :	Q :	P	P Q : Q :		P		Q	:	P	Q
I	4:	d	791:	592:	I.576		631:	318:	I.984)	501:	996
:	5:	e	812:	2659:	0.305		791:	2958:	0.267)	902:	710
II :	7:	b:	7089:	36575:	0.194		5445:	28400:	0.192)	5510:	7022
:	8:	c:	2876:	I0369:	0.277		3619:	I09I0:	0.332)	3022:	3443
:	I0:	a	30685:	I64050:	0.187		II92I:	29714:	0.40I)	5557:	65784
:	II:	f	958I:	2830I:	0.339		930:	I792:	0.519)	607:	I4688
:	I2:	g	I8I2:	4838:	0.375		2706:	830I:	0.326)	3II3:	I577
III:	I5:	a	3390:	I907:	I.778		I626:	85I:	I.9II)	I5I3:	3644
IV:	I7:	b	297:	449:	0.66I		295:	222:	I.329)	I47:	597
:	I9:	d	I34:	I62:	0.827		I53:	II9:	I.286)	98:	208
:	20:	e	I264:	I944:	0.650		I5I5:	2I49:	0.704)	I397:	I369
:	22:	g	I84:	237:	0.776		276:	278:	0.993)	2I6:	235
:	23:	h	2746:	2I84:	I.252		2I77:	2409:	0.904)	3028:	I974
V:	25:	a	I73:	8882:	0.0I9		I43:	32II:	0.044)	6I:	39I
:	27:	c	657:	5486:	0.I20		58I:	5263:	0.II0)	632:	603
VI:	28:	a	738:	470:	I.570		38I:	253:	I.506)	397:	708
:	30:	c	458:	27I:	I.690		I68:	I45:	I.I59)	245:	3I4
:	32:	e	2435:	I622:	I.50I		4888:	I974:	2.476)	2963:	40I6
VII:	36:	a	I5I3:	II76:	I.287		I757:	II22:	I.566)	I444:	I842
:	37:	b	I02:	24:	4.250		I6I:	4I:	3.926)	I74:	94
VIII:	39:	a	420:	322:	I.304		346:	240:	I.442)	3I3:	464
IX:	40:	a	I3I8:	2007:	0.607		842:	I302:	0.647)	790:	I399
X:	44:	b	809:	584:	I.385		658:	I88:	3.500)	260:	2044
:	45:	c	252:	I26:	2.000		254:	80:	3.I75)	I60:	400
XI:	46:	a	II390:	I044:	I0.909		83I0:	580:	I4.328)	6327:	I4958
:	47:	b	3949:	2779:	I.42I		4682:	4I43:	I.I30)	5887:	3I40
:	48:	c	3599:	I05I:	3.424		4855:	806:	6.023)	2760:	6330
:	49:	d	274:	259:	I.058		277:	290:	0.955)	307:	247
:	50:	e	380:	235:	I.6I7		374:	2I2:	I.764)	343:	4I5
:	5I:	f	685:	95:	7.2II		307:	32:	9.583)	23I:	9II
:	52:	g	4030:	807:	4.994		2697:	352:	7.66I)	II58:	6I82
:	53:	h	I57:	I37:	I.I46		322:	77:	4.I8I)	88:	574
XII:	54:	a	5I3:	I7I:	3.35I		64I:	I40:	4.579)	469:	783
XIII:	60:	c	277:	486:	0.570		I98:	238:	0.832)	I36:	404
XV:	63:	a	3256:	7045:	0.462		2384:	923I:	0.258)	4265:	I8I8
:	68:	b	458:	249:	I.839		405:	287:	I.4II)	528:	35I
XVI:	72:	a	360I:	I940:	I.856		330I:	I494:	2.209)	2773:	4285
:	73:	b	728:	285:	2.554		270:	I00:	2.700)	26:	770
XVII:	75:	b	4304:	200I:	2.I0I		5428:	I864:	2.9I2)	39I6:	5827
:	76:	c	344:	I3:	26.462		I6I:	8:	20.I25)	2I2:	262
XVIII:	77:	a	I27:	I5:	8.467		I53:	I7:	9.000)	I44:	I35
XX:	82:	a	97:	I7:	5.705		II9:	I6:	7.438)	9I:	I26
			I08 56I				77I47			627IZ	I6I940

EXPORTS 1949
Continued.
....

$P_1 Q_1$: 108,561 $\qquad$ $P_1 Q_0$: 62,711

$P_0 Q_1$: 161,940 $\qquad$ $P_0 Q_0$: 77,147

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{108,561 \quad x \quad 62,711}{161,940 \quad x \quad 77,147} \quad x \quad 100$$

$= 0.6704 \quad x \quad 0.8129 \quad x \quad 100$

$= 0.5450 \quad x \quad 100$

$= 0.7382 \quad x \quad 100$

$= \underline{73.82}$

....

------------------ APPENDEX C ------------------
. . . .

The following appendex is divided into two parts. Part I
contains the analyzed and adjusted values of the imports for
the years: 1947, 1948, & 1949 according to the method discussed
in Section III of the thesis. The franc column includes goods
coming from the French territories, the Dollar column includes
goods coming from the United States and Cannada, while the sterling
column includes goods coming from all countries the currencies of
which are either sterling or related to it.

Part II of the appendex contains the statistical calculations
of the price indices for imports, and has the same arrangement
as appendex B.

. . . .

IMPORTS 1947

			OFFICIAL VALUE	FRANC	STERLING	DOLLAR	OTHERS	ADJUSTED VALUE
I:	I	a	8040	—	4456	—	3584	9537
	3	c	396	3	65	—	328	483
	4	d	1380	81	264	337	698	1680
II:	6	a	101	18	3	33	48	121
	7	b	921	3	647	187	85	1074
	8	c	5304	—	4122	12	1170	5973
	9	d	5345	3	702	33	4506	6445
	10	e	4445	—	1491	248	8706	5355
	11	f	1973	—	493	1443	37	2603
	12	g	2409	14	814	14	1567	2876
	13	h	464	11	178	26	249	549
	14	i	216	10	77	4	135	253
III:	15	a	3000	4	1330	93	1574	3550
IV:	16	a	731	118	63	79	471	852
	17	b	19763	5707	8221	3280	3555	20593
	18	c	691	184	194	130	183	751
	19	d	175	37	20	92	26	210
	20	e	732	15	431	170	106	852
	21	f	258	26	34	32	166	306
	22	g	933	312	168	456	95	1086
	23	h	1381	—	91	150	1040	1609
V:	25	a	2178	316	331	24	1617	2556
	27	c	10036	—	—	—	—	10036
VI:	28	a	7963	2181	1933	2214	1655	8769
	29	b	757	164	254	200	138	846
	30	c	3854	591	1314	1140	879	4492
	31	d	1614	984	147	443	40	1519
	32	e	1348	136	633	187	402	1539
	34	g	211	38	1	104	68	259
	35	h	1599	839	121	—	639	1516
VII:	36	a	4144	70	1377	670	2034	5018
	37	b	306	75	76	27	30	312
	38	c	136	18	42	48	34	164
VIII:	39	a	6822	862	2664	2905	391	8063
IX:	40	a	8966	389	226	200	8153	10989
	41	b	333	15	33	12	273	405
	42	c	434	71	185	2	176	475
X:	44	b	7190	1831	606	1818	3133	8112
	45	c	460	154	86	86	134	490

.../...

IMPORTS 1947

			OFFICIAL VALUE	FRANC	STERLING	DOLLAR	OTHERS	ADJUSTED VALUE
XI:	46	a	23033	3350	3166	4173	13344	27068
	47	b	30984	7980	6127	1031	4946	19890
	48	c	33068	1430	7615	12817	11306	41253
	49	d	1604	239	973	3	389	1718
	50	e	691	158	215	206	113	773
	51	f	3043	464	399	1986	194	3783
	52	g	6798	512	3946	3051	389	7891
	53	h	7027	7	111	6606	3	8798
XII	54	a	573	--	467	88	18	655
	55	b	326	67	50	24	85	242
XIII	58	a	703	191	125	34	363	757
	59	b	2330	736	464	136	894	2339
	60	c	3427	2001	158	850	418	3286
XV	63	a	49938	3607	6510	5530	34501	60195
	64	b	2388	405	806	370	807	2550
	66	d	730	172	279	245	34	810
	67	e	202	44	87	44	27	222
	68	f	299	21	5	34	239	267
	69	g	635	1	438	3	203	726
	71	i	1776	546	440	488	303	1923
XVI	72	a	21614	2348	8225	9608	1433	25851
	73	b	10683	2448	2920	3483	1832	13063
	75	b	23251	1757	3327	18131	156	30311
	76	c	1386	20	317	1041	8	1827
XVIII	77	a	1363	372	169	407	325	1546
	78	b	1291	83	3	6	1200	1568
	79	c	270	78	102	63	27	388
XIX	80	a	325	33	29	24	239	388
	81	b	509	180	57	174	188	667
XX	82	e	2100	139	199	1758	4	2780
	83	b	141	27	25	52	37	165
	84	c	694	208	167	305	14	773
	85	d	619	118	75	335	84	739
XXI	86	a	156	143	7	--	1	113

IMPORTS 1948

			OFFICIAL VALUE	FRANC	STERLING	DOLLAR	OTHERS	ADJUSTED VALUE
I:	I	a	13008	---	4542	---	8466	17914
	3	c	460	---	20	---	440	659
	4 /	d	3691	456	427	706	2073	5119
II:	6	a	177	93	4	16	64	215
	7	b	1977	14	1540	2	421	3562
	8	c	7040	8	6330	1	710	9008
	9	d	3784	19	933	60	2773	5283
	10	e	47320	667	26271	2135	18347	63497
	11	f	36735	---	9077	35113	2545	55785
	12	g	5233	219	3130	75	2799	7054
	13	h	371	---	333	34	4	481
	14	i	304	14	70	4	216	418
III:	15	a	4105	240	1649	114	2102	5528
IV:	16	a	2445	389	51	321	1684	3394
	17	b	16360	324	2176	3474	10486	23692
	18	c	1183	72	248	47	816	1634
	19	d	454	---	173	331	50	664
	20	e	1367	57	601	363	447	1883
	21	f	159	31	40	67	21	220
	22	g	992	397	295	184	116	1231
	23	h	1330	---	140	254	936	1935
	25	a	5620	570	660	260	4130	7765
	27	c	13831	---	---	---	---	13831
VI:	28	a	9240	2196	2669	2139	2336	12336
	29	b	902	37	138	143	585	1285
	30	c	5309	784	3567	1040	918	7019
	31	d	1143	616	173	360	95	1386
	32	e	1194	379	308	435	182	1616
	33	f	198	33	43	40	84	271
	34	g	865	131	196	55	483	1162
	35	h	2510	829	323	6	1353	3187
VII:	36	a	4367	205	1707	419	2036	5966
	37	b	384	119	178	45	42	475
	38	c	103	36	39	26	1	128
VIII:	39	a	6869	1548	3210	1716	395	8930
IX:	40	a	12966	1175	1533	816	9412	18010
	41	b	149	37	10	19	83	200
	42	c	464	109	164	---	191	591
X:	44	b	6370	2125	1212	362	3571	7823
	45	c	469	137	158	126	48	608
XI:	46	a	22961	3654	2853	3345	13109	31516

IMPORTS 1948

			OFFICIAL VALUE	FRANC	STERLING	DOLLAR	OTHERS	ADJUSTED VALUE
	47	b	3I883	8827	7664	757	4635	26313
	48	c	28897	956	87I0	7547	II684	40975
	49	d	878	I33	588	—	307	II08
	50	e	768	II3		I49	I58	I0I9
	5I	f	3I82	586	546	I875	I75	4560
52		g	5I44	382	2485	II89	II88	7048
	53	h	4364	55	I04	4059	46	6828
XII	54	a	377	—	I2I	47	I09	385
	55	b	298	29	II5	I2	I42	397
XIII	58	a	75I	I9I	I34	47	379	980
	60	c	3302	I43I	I39	836	896	4239
XV	63	a	49936	I046I	I840I	4587	I6487	64735
	64	b	3085	775	I553	286	47I	3867
	66	b	I995	555	355	943	I43	2730
	67	e	896		I76	—	I30	395
	69	g	308	—	I53	42	II4	424
	70	h	2I7	6	64	38	I09	424
	7I	1	2530	386	47I	76I	9I2	306
XVI	72	a	35493	4040	I4037	II563	5854	35283
	73	b	I5345	3084	5403	4052	2806	48854
XVII	74	a	276	I34	37	—	I05	30473
	75	b	29953	I29I	9752	I7320	I590	33I
	76	c	2674	447	I0I5	II63	I9	43916
XVIII	77	a	2066	59I	668	552	I9	367I
	78	b	I289	99	668	552	255	2689
	79	c	344	I04	9	—	II8I	I8I0
XIX	80	a	508	I65	99	67	74	444
	8I	b	454	II5	24	43	27I	653
XX	82	a	I445	I06	42	I36	I6I	6I9
	83	b	265	40	346	9II	82	2I35
	84	c	808	I78	74	74	77	363
	85	d	679	52	9I	398	I4I	II40
	59	b	3269	55I	27	5I0	90	I042
					653	I32	I933	4368

IMPORTS 1949

			OFFICIAL VALUE	FRANC	STERLING	DOLLAR	OTHERS	ADJUSTED VALUE
I	I	a	11905	—	5613	—	6293	15594
	2	b	156	—	154	—	2	101
	3	c	578	—	18	—	560	799
	4	d	4588	360	1172	1399	1657	6190
II	6	a	162	71	6	24	61	305
	7	b	2964	143	1490	—	1336	3822
	8	c	4296	—	3026	—	1270	5456
	9	d	4635	—	1450	48	3127	6188
	10	e	16858	3082	7250	5303	1234	31699
	11	f	13282		1756	10990	527	19155
	12	g	6626	21	1432	120	5053	8405
	13	h	462	13	173	32	844	611
	14	i	342	83	102		157	432
III	15	a	5955	105	2214	1202	2434	7976
	16	a	3308	192	195	470	1451	3157
	17	b	12492	—	6216	1300	5076	16415
	18	c	1420	446	175	—	799	1823
	19	d	313	—	111	—	202	416
	20	e	1057	—	241	124	692	1440
	21	f	252	37	44	121	50	542
	22	g	1388	387	345	—	651	1741
	23	h	1664	—	265	478	921	2310
	24	i	168	—	47		121	236
V	25	a	3741	595	1016	2130	4838	4838
	27	c	32718	—	—	—	—	32718
VI	28	a	9752	2100	1505	1776	4371	12792
	29	b	877	—		334	543	1249
	30	c	5707	685	1801	184	2437	7479
	31	d	1238	471	—	122	635	1683
	32	e	1268	117	180	306	865	2000
	33	f	318	—	—	119	199	453
	34	g	320	52	79	146	43	429
	35	h	2243	721	429	—	1093	2815
VII	36	a	5569	—	1044	107	4418	7472
	37	b	475	308	155	66	46	575
	58	c	138	26	37	59	16	182
VIII	39	a	6621	721	2814	18	1234	8663
IX	40	a	11301	1006	718	1191	8286	15236
	41	b	243	55	68		120	309
	42	c	534	67	132	3	534	979
X	44	b	7734	2140	136	—	5449	10045
	45	c	659	162	257	155	851	834

.../...

IMPORTS 1949

			OFFICIAL VALUE	FRANC	STERLING	DOLLAR	OTHERS	ADJUSTED VALUE
XI:	46	a	21971	4867	1804	4409	11491	39186
	47	b	20655	8649	6834	430	4742	24841
	48	c	33731	11.0	4100	6130	11991	32418
	49	d	1318	257	728	9	324	1489
	50	e	1420	239	374	624	183	1890
	51	f	3870	518	490	1677	185	3892
	52	g	12638	432	10818	831	577	16666
	53	h	5265	23	253	4893	92	7703
XII:	54	a	776	12	463	84	217	1004
	55	b	308	139	18	17	144	384
XIII:	58	a	866	153	161	256	296	1150
	59	b	3111	964	421	343	1483	3969
	60	c	4448	1864	461	880	1243	5693
XV:	63	a	53172	9506	18143	13985	11538	69066
	64	b	3483	817	1333	—	1434	4373
	66	d	1745	752	320	—	773	2150
	67	e	593	156	187	—	250	743
	69	g	435	21	375	17	23	536
	70	h	191	18	141	84	8	238
	71	1	3011	638	403	726	1244	3979
XVI:	72	a	52198	4974	16736	17089	13399	69669
	73	b	26697	4375	11807	5390	5225	34083
XVII:	74	a	147	77	10	60	178	178
	75	b	37786	1384	6711	38484	1307	53537
	76	c	1126	140	455	110	431	1463
XVIII:	77	a	3346	374		405	1469	5069
	78	b	1661	133			1538	2367
	79	c	478	159	156	59	104	594
XIX:	80	a!!	358	91	14	65	190	473
	81	b	545	296		101	148	672
XX:	82	a	1193	130	165	640	367	1648
	83	b	263	32	117	41	73	339
	84	c	861	110		290	451	1174
	85	d	975			730	345	1421

APPENDEX   C

Part II
....

IMPORTS 1939

			1939			1938			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$:	Q_1 :	P_1	$P_0 Q_0$:	Q_0 :	P_0		
I:	I:	a)	1406:153745:		0.009	1981:245333:		0.008	2206:	1233:
:	4:	d)	351:	693:	0.507	298:	706:	0.433	358:	393:
:	5:	e)	123:	166:	0.735	143:	183:	0.781	135:	130:
II:	7:	b)	442:	6739:	0.066	271:	4330:	0.063	285:	425:
:	8::c)		738:	21933:	0.034	670:	25504:	0.026	658:	820:
:	9:	d)	815:	2259:	0.361	663:	1833:	0.363	658:	1464:
:	10:	e)	1976:	23239:	0.085	2530:	39907:	0.063	3392:	1464:
:	11:	f)	396:	5661:	0.070	468:	4949:	0.095	346:	538:
:	12:	g)	801:	7166:	0.112	740:	7653:	0.097	857:	695:
:	13:	h)	384:	1568:	0.181	151:	993:	0.152	180:	238:
III:	15:	a)	1497:	6661:	0.225	1591:	7275:	0.219	1637:	1459:
IV:	16:	a)	385:	823:	0.468	350:	842:	0.416	394:	342:
:	17:	b)	3047:	34174:	0.089	2341:	40489:	0.058	3604:	1983:
:	18:	c)	197:	385:	0.512	307:	438:	0.473	224:	182:
:	20:	e)	175:	906:	0.193	139:	673:	0.193	130:	174:
:	22:	g)	620:	2848:	0.218	521:	3564:	0.203	559:	578:
:	23:	h)	571:	673:	0.848	405:	351:	1.153	298:	776:
V:	26:	a)	461:	23885:	0.020	327:	18115:	0.018	362:	412:
:	27:	c)	8183:328973:		0.027	5558:245375:		0.023	6623:	5366:
VI:	28:	a)	1609:	4875:	0.330	1451:	4431:	0.328	1459:	1599:
:	29:	b)	153:	51:	3.000	139:	59:	2.356	177:	130:
:	30:	c)	1045:	2925:	0.357	891:	3977:	0.299	1063:	875:
:	31:	d)	431:	320:	1.347	366:	270:	1.355	364:	434:
:	32:	e)	483:	2627:	0.184	443:	2448:	0.181	450:	475:
:	35:	h)	288:	4672:	0.062	191:	3278:	0.058	203:	271:
VII:	36:	a)	2108:	4620:	0.456	2132:	5125:	0.416	2337:	1933:
:	37:	b)	125:	22:	5.682	141:	26:	5.423	148:	119:
VIII:	39:	a)	1043:	1316:	0.792	846:	1237:	0.684	980:	900:
IX:	40:	a)	2741:	55635:	0.049	2340:	48651:	0.046	2384:	2559:
:	42:	c)	96:	532:	0.180	113:	932:	0.120	168:	64:
			30590:			28295:			32849:	26903:

. . . . . .

IMPORTS 1939

			1939			1938			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
			30590			28295			32849	26903
X:	44:	b)	1564	2363	0.662	1411	8997	0.157	5956	371
:	45:	c)	224	304	1.098	187	243	0.770	267	157
XI:	46:	a)	3585	3353	1.439	3016	3306	1.308	3318	3076
:	47:	b)	4256	2156	1.974	3049	1635	1.865	3237	4021
:	48:	c)	11216	12220	0.918	8793	10526	0.930	9663	11365
:	49:	b)	425	553	0.769	403	561	0.718	431	397
:	50:	e)	248	289	0.858	217	297	0.731	255	211
:	51:	f)	662	183	3.617	499	132	3.780	477	692
:	52:	g)	1264	2939	0.430	1117	3613	0.309	1554	908
:	53:	h)	604	1114	0.542	480	911	0.527	494	588
XII:	54:	a)	121	99	1.222	155	143	1.084	175	107
:	55:	b)	127	31	4.097	113	28	4.036	118	125
XIII:	58:	a)	118	1285	0.092	100	864	0.116	79	149
:	59:	b)	377	3048	0.124	373	3563	0.104	442	317
:	60:	c)	619	4222	0.147	592	3765	0.157	553	663
XV:	63:	a)	5978	43693	0.137	5366	40473	0.133	5545	5811
:	64:	b)	517	839	0.616	523	923	0.566	569	475
:	69:	q)	164	82	2.000	127	78	1.628	158	133
:	71:	1)	398	177	2.249	320	149	2.148	335	380
XVI:	72:	a)	2846	3327	0.855	2733	3660	0.746	3129	3482
:	73:	b)	1308	993	1.317	1244	1087	1.142	1432	1136
XVII:	75:	b)	3708	3415	0.109	2055	1892	1.037	206	3541
XVIII:	77:	a)	255	43	5.930	223	60	3.717	356	160
:	78:	b)	118	11	10.727	102	0	11.333	97	125
XX:	84:	c)	91	79	1.152	111	97	1.144	112	90
:	85:	d)	175	93	1.882	186	74	2.514	139	234
			71358			62787			71931	64616

IMPORTS 1939
Continued.

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$P_1 Q_1$: 71,358　　　　　　　　　　$P_1 Q_0$: 71,931

$P_0 Q_1$: 64,616　　　　　　　　　　$P_0 Q_0$: 62,787

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{71,358 \quad x \quad 71,931}{64,616 \quad x \quad 62,787} \quad x \quad 100$$

$= 1.1043 \quad x \quad 1.1456 \quad x \quad 100$

$= 1.26509 \quad x \quad 100$

$= 1.1248 \quad x \quad 100$

$= \underline{\underline{112.48}}$

....

IMPORTS 1940

			1940			1939			P Qo	Po Q
			P\Q\	Q\	P\	Po Qo	Qo	Po		
I	1	a)	1928 : 208355 :		0.009	1408 : 152745 :		0.009	1375 :	1874 :
	4	d)	347 : 369 :		0.669	351 : 692 :		0.507	463 :	187 :
II	7	b.	366 : 3826 :		0.096	442 : 6759 :		0.066	647 :	353 :
	8	c)	858 : 27636 :		0.031	738 : 21933 :		0.034	680 :	940 :
	9	d)	1495 : 3655 :		0.409	815 : 3259 :		0.361	92. :	1319 :
	10	e)	1009 : 9257 :		0.109	1976 : 23339 :		0.085	2533 :	787 :
	11	f)	434 : 4033 :		0.108	396 : 5661 :		0.070	611 :	383 :
	12	g)	477 : 3055 :		0.156	801 : 7166 :		0.112	1118 :	342 :
	13	h)	385 : 1601 :		0.240	284 : 1568 :		0.181	376 :	290 :
III	15	a)	1078 : 3045 :		0.354	1497 : 6661 :		0.325	2358 :	685 :
IV	16	a)	658 : 988 :		0.666	385 : 822 :		0.468	547 :	463 :
	17	b)	2331 : 14872 :		0.157	3047 : 34174 :		0.089	5365 :	1324 :
	18	c)	120 : 203 :		0.591	197 : 385 :		0.512	238 :	104 :
	20	e)	149 : 563 :		0.265	175 : 906 :		0.193	240 :	108 :
	22	g)	902 : 3847 :		0.234	620 : 2848 :		0.218	666 :	839 :
	23	h)	679 : 520 :		1.306	571 : 673 :		0.848	679 :	441 :
V	25	a)	158 : 5623 :		0.028	461 : 22885 :		0.020	641 :	113 :
	27	c)	6844 : 135084 :		0.051	6183 : 228973 :		0.027	11678 :	3647 :
VI	28	a)	1163 : 2708 :		0.429	1609 : 4875 :		0.330	2091 :	894 :
	29	b)	170 : 40 :		4.250	153 : 51 :		3.000	217 :	120 :
	30	c)	759 : 1406 :		0.540	1045 : 2925 :		0.357	1580 :	502 :
	31	d)	311 : 211 :		1.474	431 : 320 :		1.347	472 :	284 :
	32	e)	461 : 1282 :		0.360	483 : 2637 :		0.184	946 :	236 :
	35	h)	220 : 2797 :		0.079	288 : 4672 :		0.062	369 :	173 :
VII	36	a)	1377 : 2172 :		0.634	2108 : 4630 :		0.456	2929 :	990 :
VIII	39	a)	846 : 678 :		1.248	1042 : 1316 :		0.792	1642 :	537 :
IX	40	a)	2193 : 34992 :		0.063	2741 : 55635 :		0.049	3505 :	1715 :
X	44	b)	963 : 2846 :		0.338	1564 : 2363 :		0.662	798 :	1884 :
	45	c)	111 : 99 :		1.121	224 : 204 :		1.098	229 :	109 :
XI	46	a)	4411 : 2408 :		1/833	3385 : 3352 :		1.439	4309 :	3465 :
	47	b)	2143 : 802 :		2.672	4256 : 2156 :		1.974	5761 :	1583 :
	48	c)	8735 : 7834 :		1.114	11218 : 12330 :		0.918	13613 :	7192 :
	49	d)	417 : 391 :		1.066	425 : 535 :		0.769	589 :	301 :
	50	e)	137 : 110 :		1.345	248 : 389 :		0.858	360 :	94 :
	51	f)	255 : 56 :		4.554	662 : 183 :		3.617	833 :	303 :
	52	g)	753 : 1141 :		0.660	1234 : 2939 :		0.430	1940 :	491 :
	53	h)	160 : 224 :		0.714	604 : 1114 :		0.542	795 :	131 :
XIII	59	b)	112 : 767 :		0.146	377 : 3048 :		0.124	445 :	95 :
	60	c)	305 : 1722 :		0.177	619 : 4223 :		0.147	747 :	253 :
XV	63	a)	4737 : 24176 :		0.196	5978 : 43693 :		0.1379	8564 :	3313 :
	64	b)	133 : 177 :		0.751	517 : 839 :		0.616	630 :	109 :
	69	g)	461 : 168 :		3.744	164 : 82 :		2.000	235 :	336 :
	71	i)	194 : 61 :		3.180	398 : 177 :		2.349	563 :	137 :
XVI	72	a)	1148 : 1106 :		1.038	2846 : 3327 :		0.855	3453 :	946 :
	73	b)	713 : 523 :		1.366	1308 : 993 :		1.317	1356 :	687 :
XVII	75	b)	1822 : 1844 :		0.988	3708 : 3415 :		1.086	3374 :	2003 :
XVIII	77	a)	105 : 18 :		5.833	255 : 43 :		5.930	951 :	107 :
			55417 :			70267 :			93915 :	42875 :

IMPORTS 1940
Continued.

. . . .

$P_1 Q_1$: 55,417

$P_0 Q_1$: 42,875

$P_1 Q_0$: 93,915

$P_0 Q_0$: 70,267

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{55,417 \quad x \quad 93915}{42,875 \quad x \quad 70,267} \quad x \quad 100$$

$= 1.3365 \quad x \quad 1.2925 \quad x \quad 100$

$= 1.72743 \quad x \quad 100$

$= 1.3144 \quad x \quad 100$

$= \underline{131.44}$

. . . .

IMPORTS 1941

			1941			1940			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$:	Q_1 :	P_1	$P_0 Q_0$:	Q_0 :	P_0		
I:	I:	a)	1407:	140975:	0,010	1928:	208855:	0,009	2083:	1369:
II:	7:	b)	95:	1149:	0,083	366:	3826:	0,096	318:	110:
:	8:	c)	1603:	21815:	0,073	852:	27636:	0,031	2017:	676:
:	9:	d)	2060:	3054:	0,675	1495:	3655:	0,409	2467:	1249:
:	10:	e)	8131:	49728:	0,164	1009:	9257:	0,109	1518:	5430:
:	11:	f)	985:	4334:	0,237	434:	4023:	0,108	913:	468:
:	12:	g)	393:	3081:	0,128	477:	3055:	0,156	391:	481:
:	13:	h)	200:	589:	0,340	385:	1601:	0,240	544:	141:
III:	15:	a)	355:	568:	0,625	1078:	3045:	0,354	1803:	201:
IV:	17:	b)	5307:	18431:	0,288	2331:	14872:	0,157	4283:	2894:
:	20:	e)	170:	1057:	0,161	140:	562:	0,265	90:	280:
:	22:	g)	124:	353:	0,351	902:	3847:	0,234	1350:	83:
:	23:	h)	124:	103:	1,0138	679:	520:	1,306	592:	142:
V:	25:	a)	275:	7708:	0,036	158:	5622:	0,028	202:	216:
:	27:	c)	5705:	146244:	0,039	6844:	135084:	0,051	5268:	7458:
VI:	28:	a)	470:	828:	0,568	1163:	2708:	0,429	1538:	355:
:	29:	b)	187:	11:	17,000	170:	40:	4,250	680:	47:
:	37:	c)	279:	374:	0,746	759:	1406:	0,540	1049:	202:
:	32:	e)	331:	689:	0,480	461:	1283:	0,360	615:	248:
VII:	36:	a)	871:	1461:	0,596	1377:	2172:	0,634	1395:	926:
VIII:	39:	a)	833:	228:	3,654	846:	678:	1,248	2477:	285:
IX:	40:	a)	367:	3150:	0,117	2193:	34992:	0,063	4094:	198:
X:	44:	b)	552:	574:	0,962	963:	2846:	0,338	2738:	194:
XI:	46:	a)	1684:	539:	3,124	4411:	2408:	1,832	7523:	987:
:	47:	b)	1081:	370:	2,922	2143:	803:	2,672	2343:	989:
:	48:	c)	3969:	1965:	2,020	8725:	7834:	1,114	15825:	3189:
:	49:	d)	98:	96:	1,021	417:	301:	1,066	399:	103:
:	52:	g)	748:	1091:	0,686	753:	1141:	0,660	783:	720:
:	5353:	h)	107:	60:	1,783	160:	224:	0,714	399:	43:
XV:	63:	a)	670:	2636:	0,254	4737:	24176:	0,196	6141:	517:
XVII:	75:	d)	234:	156:	1,500	1822:	1844:	0,988	2766:	154:
			39415:			50187:			74604:	29244:

IMPORTS 1941
Continued.
....

$P_1 Q_1$: 39,415 $P_1 Q_0$: 74,604

$P_0 Q_1$: 29,244 $P_0 Q_0$: 50,187

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{39,415 \quad x \quad 74,604}{29,244 \quad x \quad 50,187} \quad x \quad 100$$

$= 1.4865 \quad x \quad 1.3478 \quad x \quad 100$

$= 2.0035 \quad x \quad 100$

$= 1.4155 \quad x \quad 100$

$= \underline{141.55}$

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IMPORTS 1942

			1942			1941			P Q_o	P Q_o
			PQ	Q	P	P_0Q_0	Q_0	P_0		
	I	a)	3623:	385195:	0,016)	1407:	140975:	0,010)	3358:	3333:
	7:	b)	495:	4513:	0,110)	95:	1149:	0,083)	136:	375:
	8:	c)	7538:	53710:	0,140)	1605:	21815:	0,073)	3054:	3931:
	9:	d)	4207:	3964:	1,061)	2060:	3054:	0,675)	3340:	2676:
	10:	e)	12640:	61396:	0,188)	8131:	49738:	0,164)	9349:	11053:
	11:	f)	6545:	26673:	0,245)	985:	4334:	0,227)	1062:	6055:
	12:	g)	3367:	13952:	0,170)	393:	3081:	0,128)	534:	1786:
	13:	h)	431:	962:	0,448)	200:	589:	0,340)	264:	337:
III	15:	a)	2763:	3153:	0,877)	355:	568:	0,625)	498:	1970:
	18:	b)	9826:	24946:	0,394)	5307:	18431:	0,288)	7363:	7184:
	20:	e)	650:	2889:	0,335)	170:	1057:	0,161)	238:	465:
	22:	g)	1139:	1185:	0,961)	124:	353:	0,351)	339:	416:
	23:	h)	684:	569:	1,202)	124:	109:	1,138)	131:	648:
	25:	a)	321:	4534:	0,071)	275:	7708:	0,036)	547:	163:
	27:	c)	12144:	268189:	0,045)	5705:	146244:	0,039)	6581:	10459:
	28:	a)	1465:	2201:	0,666)	470:	828:	0,568)	551:	1250:
	29:	b)	383:	18:	21,233)	187:	11:	17,000)	233:	306 :
	30:	c)	958:	1080:	0,887)	379:	374:	0,746)	332:	806:
	32:	e)	533:	866:	0,615)	331:	689:	0,480)	424:	416:
	36:	a)	2331:	1953:	1,194)	871:	1461:	0,596)	1744:	1164:
	39:	a)	1099:	272:	4,040)	833:	228:	3,654)	921:	994:
	40:	a)	737:	2948:	0,247)	367:	3150:	0,117)	778:	345:
	44:	b)	760:	571:	1,331)	552:	574:	0,962)	764:	549:
	46:	a)	2444:	469:	5,211)	1684:	539:	3,124)	2809:	1465:
	47:	b)	5686:	837:	6,875)	1081:	370:	3,922)	2544:	2416:
	48:	c)	15550:	5698:	3,729)	3969:	1965:	2,020)	5368:	11510:
	49:	i)	916:	665:	1,377)	98:	96:	1,021)	132:	679:
	51:	f)	328:	19:	17,263)	91:	9:	10,111)	155:	192:
	52:	g)	2509:	2992:	0,839)	748:	1091:	0,686)	915:	2053:
	53:	h)	232:	139:	1,669)	107:	60:	1,783)	100:	248:
	63:	a)	485:	1085:	0,447)	670:	2636:	0,254)	1178:	276:
	73:	b)	313:	86:	3,640)	97:	22:	4,409)	80:	379:
	75:	b)	2009:	887:	2,364)	234:	156:	1,500)	353:	1331:
			104 080:			39603:			54846:	76100:

IMPORTS 1942
Continued.

. . . .

$P_1 Q_1$: 104,090 $P_1 Q_0$: 54,846

$P_0 Q_1$: 76,109 $P_0 Q_0$: 39,603

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{104,090 \quad x \quad 54,846}{39,603 \quad x \quad 76,109} \quad x \quad 100$$

$$= 1.3849 \quad x \quad 1.3676 \quad x \quad 100$$

$$= 1.89399 \quad x \quad 100$$

$$= 1.3762 \quad x \quad 100$$

$$= \underline{137.62}$$

. . . .

IMPORTS 1943

		1943			1942			$P_1 Q_0$	$P_0 Q_1$
		$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
I:	a)	8916:	432197:	0.021	3623:	223193:	0.016	4687:	6915:
4:	d)	394:	263:	1.504	185:	136:	1.360	205:	356:
7:	b)	1100:	3246:	0.339	495:	4513:	0.110	1530:	357:
8:	c)	10007:	48258:	0.207	7538:	53710:	0.140	11117:	6756:
9:	d)	3447:	3190:	1.081	4207:	3964:	1.061	4285:	3385:
10:	e)	3129:	11260:	0.278	12640:	67396:	0.188	18736:	2117:
11:	f)	1367:	3899:	0.351	6545:	26673	0.245	9363:	955:
12:	g)	838:	2879:	0.291	2367:	13953:	0.170	4060:	489:
13:	h)	441:	1226:	0.360	431:	963:	0.448	346:	549:
15:	a)	806:	887:	0.909	2763:	3153:	0.877	2865:	778:
16:	a)	315:	191:	1.649	97:	71:	1.366	117:	261:
17:	b)	3133:	11747:	0.267	9826:	24946:	0.394	6661:	4628:
22:	g)	363:	251:	1.446	1139:	1185:	0.961	171:	241:
23:	h)	1789:	1041:	1.719	684:	569:	1.202	978:	1251:
25:	a)	585:	9727:	0.063	321:	4524:	0.071	285:	691:
27:	c)	14384:	288948:	0.050	12144:	268189:	0.045	13409:	13002:
28:	a)	2585:	2323:	1.116	1465:	2201:	0.666	3456:	1547:
29:	b)	438:	17:	25.765	382:	18:	21.222	464:	361:
30:	c)	2357:	2029:	1.162	958:	1080:	0.887	1255:	1800:
31:	d)	500:	60:	8.333	209:	43:	4.860	358:	292:
32:	e)	243:	212:	1.146	533:	866:	0.615	992:	130:
35:	h)	1478:	5438:	0.272	518:	2814:	0.184	765:	1001:
36:	a)	6594:	4247:	1.553	2331:	1953:	1.194	3033:	5071:
39:	a)	887:	167:	5.311	1099:	272:	4.040	1445:	675:
40:	a)	1636:	5707:	0.287	727:	3948:	0.247	846:	1410:
44:	b)	1572:	856:	1.836	760:	571:	1.331	1084:	1139:
45:	c)	343:	80:	4.288	194:	49:	3.959	210:	317:
46:	a)	1700:	237:	7.173	2444:	469:	5.211	3364:	1335:
47:	b)	5640:	639:	8.826	5686:	827:	6.875	7299:	4393:
48:	c)	18929:	7381:	2.565	15550:	5698:	2.729	14615:	20143:
49:	d)	1000:	792:	1.263	916:	665:	1.377	840:	1091:
51:	f)	358:	29:	12.345	328:	19:	17.263	235:	501:
52:	g)	4929:	5106:	0.965	2509:	2992:	0.839	2887:	4284:
53:	h)	131:	112:	1.170	232:	139:	1.669	163:	181:
60:	c)	256:	192:	1.333	127:	97:	1.309	129:	251
63:	a)	1317:	3009:	0.438	485:	1085:	0.447	475:	1345
72:	a)	450:	246:	1.829	280:	119:	2.353	218:	579:
73:	b)	510:	124:	4.113	313:	86:	3.640	354:	451:
75:	b)	1983:	821:	2.415	2009:	887:	2.264	2142:	1859:
		106858:			105050:			125950:	92793:

IMPORTS 1943
Continued.

....

$P_1 Q_1$: 106,858 $P_1 Q_0$: 125,950

$P_0 Q_1$: 92,793 $P_0 Q_0$: 105,050

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{106,858 \quad x \quad 125,950}{92,793 \quad x \quad 105,050} \quad x \quad 100$$

$= 1.1990 \quad x \quad 1.1516 \quad x \quad 100$

$= 1.38077 \quad x \quad 100$

$= 1.1751 \quad x \quad 100$

$= \underline{117.51}$

....

IMPORTS 1944

		1944			1943			P_1Q_0	P_0Q_1
		P_1Q_1	Q_1	P_1	P_0Q_0	Q_0	P_0		
I:	a)	17730	424340	0,020	8916	432197	0,021	12534	8909
3:	c)	211	262	1.057	242	233	1.039	246	212
4:	d)	133	81	1.642	394	262	1.504	430	132
7:	b)	309	1147	0,269	1100	3246	0,339	873	389
8:	c)	7472	45836	0,163	10007	48258	0,207	7866	9488
9:	d)	1736	1523	1.140	3447	3190	1.081	3637	1646
10:	e)	1731	8386	0,208	3189	11860	0,278	3342	3304
12:	g)	957	2038	0,470	838	2879	0,291	1353	593
13:	h)	675	1591	0,424	441	1226	0,360	530	573
15:	a)	286	194	1.474	806	887	0,909	1307	176
16:	a)	331	88	3.761	315	191	1.649	718	145
17:	b)	5865	28110	0,209	3133	11747	0,267	2455	7505
22:	g)	98	131	0,748	363	251	1.446	188	189
23:	h)	4069	1555	2.610	1789	1041	1.719	2717	2673
25:	d)	530	14141	0,037	585	9727	0,063	360	891
27:	c)	11460	286788	0,040	14384	288948	0,050	11558	14490
28:	a)	2944	2398	1.228	2593	2323	1.116	2853	2676
29:	d)	1604	41	39.122	438	17	25.765	665	1056
30:	c)	1113	1157	0,962	2357	2029	1.162	1952	1344
31:	d)	235	23	10.217	500	60	8.333	613	193
32:	e)	327	262	1.248	343	212	1.146	265	300
35:	h)	1151	5198	0,221	1478	5438	0,272	1303	1414
36:	a)	2570	2041	1.259	6594	4247	1.553	5347	3170
37:	b)	234	18	13.000	238	12	19.833	156	357
39:	a)	3035	788	3.852	887	167	5.311	643	4185
40:	a)	2393	5253	0,455	1636	5707	0,287	2597	1507
44:	b)	1164	1066	1.092	1573	856	1.836	935	1957
45:	c)	247	56	4.411	343	80	4.288	353	240
46:	a)	1575	337	4.674	1700	237	7.173	1108	2417
47:	b)	6301	750	8.401	5640	639	8.826	5368	6620
48:	c)	2585	936	2.761	18929	7381	2.565	20379	2401
49:	d)	1303	675	1.930	1000	792	1.263	1529	853
50:	e)	169	55	3.073	121	41	2.951	126	162
51:	f)	629	21	29.952	358	29	12.345	869	253
52:	g)	3666	3653	1.004	4929	5106	0,965	5126	3525
53:	h)	346	343	1.424	131	112	1.170	159	284
60:	c)	494	1178	0,419	256	192	1.333	80	1570
63:	a)	2102	4555	0,461	1317	3009	0,438	1387	1995
64:	b)	240	194	1.237	269	271	0,993	335	193
71:	c)	305	13	23.400	91	6	15.166	141	197
72:	a)	1141	410	2.783	450	246	1.829	374	897
73:	b)	658	218	3.018	510	124	4.113	374	897
75:	b)	3744	1431	2.616	1983	821	2.415	2148	3456
		90433			106453			106498	84342

IMPORTS 1944
Continued.

$\bullet \quad \bullet$

$P_1 Q_1$: 90,423 $P_1 Q_0$: 106498

$P_0 Q_1$: 94,342 $P_0 Q_0$: 106452

$$\sqrt{\dfrac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \dfrac{90,423 \quad x \quad 106,498}{94,342 \quad x \quad 106,452} \quad x \quad 100$$

$= 0.95845 \quad x \quad 1.00043 \quad x \quad 100$

$= 0.95883 \quad x \quad 100$

$= 0.9792 \quad x \quad 100$

$= \underline{\underline{97.92}}$

$\bullet$

IMPORTS 1945

			1945			1944			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
I:	1:	a)	9529:	261677:	0.036	12250:	434340:	0.039	15273:	7589:
:	3:	c)	310:	223:	1.390	277:	263:	1.057	364:	236:
:	4:	d)	582:	213:	2.732	133:	81:	1.642	221:	350:
:	7:	b)	4293:	10833:	0.396	309:	1147:	0.269	454:	2914:
:	8:	c)	13253:	51390:	0.258	7472:	45836:	0.163	11826:	8377:
:	9:	d)	2772:	1753:	1.581	1736:	1523:	1.140	2498:	1998:
:	10:	e)	11152:	18719:	0.596	1721:	8286:	0.208	4938:	3894:
:	12:	g)	4396:	6235:	0.705	957:	2038:	0.470	1437:	2930:
:	13:	h)	747:	784:	0.953	675:	1591:	0.424	1516:	332:
:	14:	i)	177:	213:	0.831	120:	133:	0.902	111:	192:
II:	15:	a)	1208:	614:	1.967	286:	194:	1.474	382:	905:
:	17:	b)	5676:	30513:	0.227	5865:	38110:	0.209	6381:	4287:
:	18:	c)	453:	168:	2.696	203:	84:	2.417	226:	406:
:	19:	d)	148:	92:	1.608	215:	160:	1.344	257:	124:
:	22:	g)	273:	190:	1/437	98:	131:	0.748	188:	142:
:	23:	h)	2522:	768:	3.284	4059:	1555:	2.610	5107:	2004:
V:	25:	a)	481:	5737:	0.084	520:	14141:	0.037	1188:	212:
:	27:	c)	13127:	336294:	0.039	11460:	289798:	0.040	11302:	13452:
VI:	28:	a)	7854:	5142:	1.527	3944:	3298:	1.228	3662:	6314:
:	29:	b)	2172:	20:	108.600	1604:	41:	39.122	4453:	782:
:	30:	c)	2161:	1939:	1.114	1113:	1157:	0.962	1289:	1865:
:	31:	d)	1241:	96:	12.927	235:	23:	10.217	297:	981:
:	32:	e)	1616:	763:	2.121	327:	263:	1.248	556:	951:
:	35:	h)	976:	4492:	0.217	1151:	5198:	0.221	1128:	993:
VII:	36:	a)	4843:	1575:	3.075	2570:	2041:	1.259	6276:	1983:
:	37:	b)	241:	8:	30.125	234:	18:	13.000	542:	104:
III:	39:	a)	2828:	954:	2.964	3035:	788:	3.852	2336:	3675:
			95031:			61569:			84118:	67992:

IMPORTS 1945

			1945			1944			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
			95031			61569			84118	67998
IX:	40:	a	3911	6370	0.634	2393	5252	0.455	3277	2853
X:	44:	b	3298	3069	I.III	1164	1066	I.092	1184	228
:	45:	c	216	43	5.023	347	56	4.411	281	190
XI:	46:	a	2252	324	6.950	1575	337	4.674	2221	1514
:	47:	b	5607	746	7.516	6301	750	8.401	5637	6267
:	48:	c	19579	6503	3.011	2585	936	2.761	2818	17955
:	49:	d	506	272	I.860	1303	675	I.930	1356	535
:	50:	e	308	61	5.049	169	55	3.073	278	187
:	51:	f	611	15	40.733	629	21	29.952	855	449
:	52:	g	3959	2947	I.343	3666	3653	I.004	4906	3959
:	53:	h	244	760	0.321	346	243	I.424	78	1082
XII:	54:	a	227	55	4.127	73	20	3.750	83	201
XIII:	58:	a	159	171	0.930	67	35	I.914	33	327
:	59:	b	516	705	0.732	119	258	0.399	218	381
:	60:	c	1052	734	I.433	494	1178	0.419	1688	308
XV:	63:	a	7333	16882	0.434	2103	4555	0.461	1977	7783
:	64:	b	399	143	2.106	240	194	I.337	409	176
:	71:	1	418	29	14.413	305	13	23.461	187	680
XVI:	72:	a	2448	1498	I.634	1141	410	2.783	670	4167
:	73:	b	1562	319	4.896	658	218	3.018	1067	963
XVII:	75:	b	3849	1315	2.927	3744	1431	2.616	4189	3440
XVIII:	77:	a	366	25	14.640	156	6	26.000	88	650
:	78:	b	231	I	231.000	185	I	185.000	231	185
XX:	82:	a	295	22	13.409	103	18	5.722	241	126
:	83:	b	234	16	14.625	81	35	2.314	512	37
			153511			91414			118502	123556

IMPORTS 1945
Continued.

....

$P_1 Q_1$: 153,511 $P_1 Q_0$: 118,502

$P_0 Q_1$: 123,556 $P_0 Q_0$: 91,414

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{153,511 \quad x \quad 118,502}{123,556 \quad x \quad 91,414} \quad x \quad 100$$

$= 1.2424 \quad x \quad 1.2963 \qquad x \quad 100$

$= 1.61052 \quad x \quad 100$

$= 1.2691 \quad x \quad 100$

$= \underline{126.91}$

....

IMPORTS 1946

			1946			1945				$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0			
I:	I:	a)	I 0851:	27474I:	0.039	9539:	26I677:	0.036		I 0205:	9891:
:	3:	c)	366:	367:	0.997	3I 0:	333:	I.390		333:	5I 0:
:	4:	d)	537:	200:	2.685	552:	3I3:	2.732		572:	546:
:	5:	e)	278:	5I:	5.45I	8I:	I5:	5.400		82:	275:
II:	7:	b)	2I57:	4 069:	0.530	4293:	I 0833:	0.396		574I:	I6II:
:	8:	c)	I37I6:	5 0573:	0.35I	I3253:	5I390:	0.258		I3899:	I3 048:
:	9:	d)	6073:	3634:	I667I	2772:	I753:	I.58I		2929:	5745:
:	I 0:	e)	II 022:	3I305:	0.352	III53:	I87I9:	0.596		6589:	I8658:
:	II:	f)	I969:	8978:	0.2I9	II 0:	395:	0.278		87:	2496:
:	I2:	g)	2983:	450I:	0.663	4396:	6235:	0.706		4I34:	3I73:
:	I3:	h)	I3I2:	I625:	0.807	747:	784:	0.953		633:	I549:
III:	I5:	a)	35I9:	I488:	I.693	I208:	6I4:	I.967		I 040:	2927:
IV:	I6:	a)	224:	72:	3.III	76:	I2:	6.333		37:	456:
:	I7:	b)	820I:	23790:	0.345	5676:	205I3:	0.277		7077:	6590:
:	I8:	c)	4I3:	204:	2.025	453:	I68:	2.696		340:	550:
:	I9:	d)	I40:	74:	I.892	I48:	92:	I.608		I74:	II9:
:	20:	e)	84I:	I563:	0.538	4 09:	937:	0.44I		499:	689:
:	2I:	f)	II 0:	56:	I.964	43:	7:	6.I43		I4:	344:
:	22:	g)	II58:	967:	I.I98	273:	I90:	I.437		228:	I39 0:
:	23:	h)	2083:	3 07:	6.785	2522:	768:	3.284		52II:	I 008:
:	24:	i)	I0I0:	I 0803:	0.093	55:	I 035:	0.053		96:	573:
V :	25:	a)	8I2:	6977:	0.II6	48I:	5737:	0.084		665:	586:
:	27:	c)	5554:	9I 039:	0.06I	I3I27:	336394:	0.039		2 05I4:	355I:
VI:	28:	a)	9346/	5062:	I.827	7854:	5I43:	I.627		9394:	7730:
:	29:	b)	I765:	68:	25.955	2I72:	20:	I08.600		5I9:	7385:
:	30:	c)	5635:	4 063:	I.387	2I6I:	I939:	I.II4		2689:	4535:
:	3I:	d)	2 096:	274	7.649	I24I:	96:	I2.927		734:	3543:
:	32:	e)	2572:	2302:	I.II7	I6I6:	763:	2.I2I		85I:	4883:
:	35:	M)	I4I8:	5I68:	0.274	976:	4493:	0.2I7		I33I:	II2I:
VII:	36:	a)	7I84:	3 004:	2.39I	4843:	I575:	3.075		3766:	9237:
:	37:	b)	36I:	28:	I2.893	24I:	8:	30.I25		I 05:	844:
:	38:	c)	278:	4:	69.500	II9:	4:	29.750		278:	II9:
VIII:	39:	a)	6I94:	8307:	0.746	2628:	954:	2.964		7I2:	24622:
IX:	40:	a)	563I:	II834:	0.476	39II:	6270:	0.624		2985:	7378:
:	4I:	b)	I63:	53:	3.075	239:	56:	4.268		I73:	226:
:	42:	c)	389:	245:	I.588	I45:	I33:	I.090		2II:	267:
			II6.363:			I 00042:				I 03633:	I48I64:

IMPORTS 1946

			1946			1945			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$:	Q_1 :	P_1	$P_0 Q_0$:	Q_0 :	P_0		
			116362:			100042:			103633:	148164:
X:	44:	b	4686:	4152:	I.139	3399:	3069:	I.III	8336:	4613:
:	45:	c	I253:	248:	5.052	316:	43:	5.023	217:	I246:
XI:	46:	a	I7031:	I535:	II.088	2253:	324:	6.950	3593:	I0668:
:	47:	b	2I078:	I69I:	I2.465	5607:	746:	7.5I6	9298:	I3710:
:	48:	c	36569:	6 082:	6.0I3	I9579:	6503:	3.0II	3910I:	I83I3:
:	49:	d	58I:	354:	I.641	506:	272:	I.860	446:	658:
:	50:	e	833:	I79:	4.654	308:	6I:	5.049	284:	904:
:	5I:	f	238I:	I26:	I8.896	6II:	I5:	40.733	383:	5I32:
:	52:	g	4493:	2420:	I.857	3959:	2947:	I.343	5473:	3350:
:	53:	h	7I94:	234I:	3.073	344:	760:	0.32I	2335:	75I:
XII:	54:	a	43I:	I77:	2.378	227:	55:	4.I26	I3I:	730:
:	55:	b	I47:	5:	29.400	65:	5:	I3.000	I47:	65:
XIII:	58:	a	509:	I26I:	0.404	I59:	I7I:	0.930	69:	II73:
:	59:	b	I753:	2783:	0.630	5I6:	705:	0.732	444:	2037:
:	60:	c	3237:	3746:	0.8I5	I052:	734:	I.433	598:	3935:
XV:	63:	a	I7I4I:	43805:	0.400	7333:	I6882:	0.434	6753:	I8577:
:	64:	a	II4I:	753:	I.475	299:	I42:	2.I06	209:	I586:
:	67:	e	273:	3I3:	0.872	II9:	I38:	0.862	I30:	270:
:	69:	g	983:	I9I:	5.I47	253:	46:	5.500	237:	I05I:
:	7I:	i	I333:	I63:	8.I78	4I8:	29:	I4.4I3	237:	3340:
XVI:	72:	a	8888:	4264:	2.084	2448:	I498:	I.634	3I22:	6967:
:	73:	b	676I:	I404:	4.8I6	I562:	3I9:	4.896	I536:	6874:
XVII:	75:	b	I6845:	9263:	I.8I8	38I9:	I3I5:	2.927	239L:	37II3:
XVIII:	77:	a	I2I6:	74:	I6.432	366:	25:	I4.640	4II:	I083:
:	78:	b	978:	5:	I95.600	23I:	I:	23I.000	I96:	II55:
XX:	82:	a	I379:	I37:	9.335	395:	32:	I3.409	305:	I837:
:	83:	b	I32:	7:	I8.857	234:	I6:	I4.625	302:	I02:
:	84:	c	420:	59:	7.II8	II9:	I0:	II.900	7I:	702:
:	85:	d	37I:	I3:	28.538	I57:	49:	3.204	I398:	43:
			275I49:			I55384:			I85578:	284057:

IMPORTS 1946
Continued.

. . . .

$P_1 Q_1 : 275,149$ $P_1 Q_0 : 185,578$

$P_0 Q_1 : 284,057$ $P_0 Q_0 : 155,324$

$$\sqrt{\frac{P_1 Q_1 \ \times \ P_1 Q_0}{P_0 Q_1 \ \times \ P_0 Q_0}} \ \times \ 100$$

$$= \frac{275,149 \ \times \ 185,578}{284,057 \ \times \ 155,324} \ \times \ 100$$

$$= 0.96864 \ \times \ 1.19478 \ \times \ 100$$

$$= 1.15731 \ \times \ 100$$

$$= 1.0758 \ \times \ 100$$

$$= \underline{107.58}$$

. . . .

IMPORTS 1947

			1947			1946			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
I	1	a)	9337 : 244932 :	0.038	10851 : 274741 :	0.039	10440 :	9558
	3	c)	483 : 494 :	0.978	366 : 367 :	0.997	359 :	493
	4	d)	1690 : 594 :	2.846	537 : 200 :	2.685	569 :	1595
	7	d)	1074 : 2685 :	0.400	???? : 4069 :	0.530	1628 :	1423
	8	c)	5973 : 24330 :	0.245	12716 : 50573 :	0.251	12390 :	6107
	9	d)	6445 : 4441 :	1.451	6073 : 3634 :	1.671	5273 :	7421
	10	e)	5355 : 9908 :	0.540	11023 : 31305 :	0.352	16905 :	3488
	11	f)	2603 : 4032 :	0.646	1969 : 8978 :	0.219	5800 :	883
	12	g)	2876 : 3937 :	0.731	2983 : 4501 :	0.663	3390 :	2610
	13	h)	549 : 582 :	9.943	1312 : 1625 :	0.807	1532 :	470
	15	a)	3550 : 3053 :	1.739	3519 : 1488 :	1.693	2573 :	3476
IV	16	a)	852 : 322 :	2.646	224 : 73 :	3.111	191 :	1002
	17	b)	20593 : 39575 :	0.529	8201 : 23790 :	0.345	12585 :	13653
	18	c)	751 : 397 :	1.892	413 : 204 :	2.025	386 :	804
	19	d)	210 : 144 :	1.458	140 : 74 :	1.893	108 :	272
	20	e)	852 : 1013 :	0.841	841 : 1562 :	0.538	1314 :	545
	21	f)	308 : 168 :	1.833	110 : 56 :	1.964	103 :	330
	22	g)	1088 : 1186 :	0.917	1159 : 967 :	1.198	887 :	1431
	23	h)	1609 : 238 :	6.760	3083 : 307 :	6.785	2075 :	1615
V	25	a)	3556 : 35625 :	0.100	812 : 6977 :	0.116	698 :	2973
	27	c)	10036 : 112209 :	0.089	5554 : 91039 :	0.061	8102 :	6845
VI	28	a)	8789 : 5330 :	1.649	9246 : 5062 :	1.827	8347 :	9738
	29	b)	846 : 65 :	13.015	1765 : 68 :	25.955	805 :	1687
	30	c)	4492 : 2720 :	1.651	5635 : 4063 :	1.387	6706 :	3773
	31	d)	1519 : 308 :	4.931	2096 : 274 :	7.649	1351 :	2358
	32	e)	1539 : 1377 :	1.118	2572 : 2303 :	1.117	2574 :	1538
	35	h)	1518 : 9237 :	0.165	1418 : 5168 :	0.374	853 :	2528
VII	36	a)	5018 : 2103 :	2.386	7184 : 3004 :	2.391	7168 :	5028
	37	b)	213 : 21 :	10.095	361 : 28 :	12.892	283 :	271
	38	c)	164 : 2 :	82000	278 : 4 :	69.500	338 :	139
VIII	39	a)	8063 : 4043 :	1.994	6194 : 8307 :	0.746	16564 :	3016
	40	a)	10989 : 30333 :	0.362	5631 : 11824 :	0.476	4280 :	14439
	41	b)	405 : 224 :	1.808	163 : 53 :	3.075	96 :	689
	43	c)	475 : 311 :	1.527	389 : 245 :	1.588	374 :	494
x	44	b)	8112 : 7948 :	1.021	4686 : 4152 :	1.129	4239 :	8973
	45	c)	490 : 130 :	3.769	1253 : 248 :	5.052	935 :	657
			122430 :		120913 :		142190 :	122304 :

IMPORTS 1947

			1947			1946			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
REPORT			122430	—	—	120913	—	—	142190	123304
XI:	46:	d	27068	2852	9.490	17021	1535	11.088	14567	31633
	47:	b	19890	1862	10.682	21078	1691	12.465	18063	23210
	48:	c	41353	6234	6.638	36588	6082	6.013	40311	37435
	49:	d	1718	596	2.883	581	354	1.641	1021	978
	50:	e	773	242	3.194	833	179	4.654	572	1136
	51:	f	3783	164	23.067	2381	126	18/896	2906	3099
	52:	g	7891	4541	1.738	4493	2420	1.857	4206	8433
	53:	h	9798	3151	3.109	7194	2341	3.073	7378	9683
XII:	54:	a	655	119	5.504	421	177	23379	974	283
	55:	b	242	29	8.345	147	5	29.400	42	853
XIII:	58:	a	757	1840	0.411	509	1261	0.404	518	743
	59:	b	2329	2669	0.873	1753	2783	0.630	2430	1681
	60:	c	3286	5588	0.588	2237	2746	0.815	1615	4554
	63:	a	60195	56937	1.057	17141	42805	0.400	45345	22775
	64:	b	3550	3213	1.152	1111	753	1.475	867	3264
	66:	d	810	269	3.011	454	267	1.700	804	457
	67:	e	222	212	1.047	273	313	0.873	328	185
	68:	f	367	299	1.227	136	150	0.907	184	271
	69:	g	736	182	3.989	983	191	5.147	763	937
	71:	1	1923	174	11.051	1333	163	8.178	1801	1423
XXI:	72:	a	35851	10013	3.582	8888	4364	2.084	11010	30867
	73:	b	12065	2640	4.569	6761	1404	4.816	6415	12714
	75:	b	30311	10530	2.879	16845	9263	1.818	26668	19144
XVIII:	77:	a	1546	93	16.623	1216	74	16.432	1230	1528
	78:	b	1568	11	142.545	978	5	195.600	713	2152
	79:	c	288	39	7.384	147	24	6.125	177	239
XIX:	81:	b	667	293	2.276	202	96	2.104	218	616
XX:	82:	a	2780	282	9.858	1279	137	9.335	1351	2632
	83:	b	165	24	6.875	132	7	18.857	48	453
	84:	c	773	232	3.333	430	58	1.118	197	1651
	85:	d	739	37	19.972	371	13	28.538	260	1056
			385407			274800			334971	338359

IMPORTS 1947
Continued.

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$P_1 Q_1$: 385,407 $P_1 Q_0$: 334,971

$P_0 Q_1$: 338,359 $P_0 Q_0$: 274,800

$$\sqrt{\frac{P_1 Q_1 \quad x \quad P_1 Q_0}{P_0 Q_1 \quad x \quad P_0 Q_0}} \quad x \quad 100$$

$$= \frac{385,407 \quad x \quad 334,971}{338,359 \quad x \quad 274,800} \quad x \quad 100$$

$= 1.13905 \quad x \quad 1.21896 \quad x \quad 100$

$= 1.38846 \quad x \quad 100$

$= 1.1783 \quad x \quad 100$

$= \underline{\underline{117.83}}$

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IMPORTS 1948

			1948			1947			P_1Q_0	P_0Q_1
			P_1Q_1	Q_1	P_1	P_0Q_0	Q_0	P_0		
I	1	a)	17914	389725	0,005	9337	244932	0.038	1335	14210
3	3	c)	659	569	I.179	483	494	0.978	582	547
	4	d)	5119	1658	3.087	1690	594	2.846	1834	4717
II	6	a)	215	III	I.937	121	56	2.160	108	340
	7	d)	2562	7902	0,324	1074	2685	0,400	670	3161
	8	c)	9008	30793	0,293	5973	24330	0.245	7139	7544
	9	d)	5283	3319	I.592	6445	4441	I.451	7070	4816
	10	e)	63497	104136	0,610	5355	0908	0,540	6044	56238
	11	f)	55785	76894	0,725	2603	4032	0.646	2923	49674
	12	g)	7054	8387	0.841	2876	3937	0.731	3311	6131
	13	h)	481	418	I.151	549	582	0,943	670	394
	14	i)	418	920	0,454	253	297	0.852	135	784
III	15	à)	5528	3377	I.637	3550	2053	I,729	3361	5839
IV	16	a)	3394	1202	3.675	852	232	2.646	861	3358
	17	b)	23692	42940	0,552	20952	39575	0.529	21846	32705
	18	c)	1634	598	2.732	751	397	I.892	1065	1131
	19	d)	664	412	I.612	210	144	I.458	333	601
	20	e)	1882	1953	0,964	852	1013	0.841	977	1642
	21	f)	220	127	I.732	308	168	I.833	291	233
	22	g)	1231	682	I.804	1088	1186	0.917	2140	625
	23	h)	1935	223	8.677	1609	238	6.760	2065	1507
V	25	a)	7765	83378	0,094	2556	25625	0.100	2409	8338
	27	c)	13831	123993	0.112	10036	112309	0,089	12 567	10946
VI	28	a)	12236	9537	I.283	8789	5330	I.648	6833	15737
	29	b)	1265	68	18.897	846	65	13.015	1238	885
	30	c)	7019	4279	I.640	4493	2720	I.651	4461	7065
	31	d)	1366	227	6.106	1519	308	4.931	1881	1119
	32	e)	1616	993	I.629	1539	1377	I.118	2243	1109
	34	g)	1162	400	2.905	259	77	3.363	224	1345
	35	h)	3187	14488	0,220	1518	9227	0.165	2030	2391
VII	36	a)	6966	2952	2.221	5018	2103	2.386	4350	7043
	37	b)	475	28	16.964	212	21	10/095	356	383
	38	c)	128	2	64.000	164	2	82.000	128	164
VIII	39	a)	8930	3835	2.329	8063	4043	I.994	9416	76647
IX	40	a)	18010	43590	0.413	10989	30533	0.362	12528	15780
	41	b)	201	147	I.367	405	224	I.808	306	266
	42	c)	591	452	I.308	475	511	I.527	407	690
			291953			123 811			135825	367395

IMPORTS 1948

			1948			1947			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
			391953			1238111			125825	267395
X	44	b	7923	8263	0.959	8112	7948	1.021	7622	8437
	45	c	608	154	3.948	490	130	3.769	513	580
XI	46	a	31516	4000	7.879	27068	3852	9.480	32471	37960
	47	b	36313	3187	12.032	19890	1862	10.682	33404	23363
	48	c	40975	6966	5.882	41253	6234	6.628	36609	46171
	49	d	1108	274	4.043	1718	596	2.883	2410	790
	50	e	1019	339	3.006	773	242	3 194	727	1083
	51	f	4560	189	24.127	3783	164	23.067	3957	4360
	52	g	7048	3222	2.187	7891	4541	1.738	9931	5600
	53	h	6828	2687	2.541	8798		3.109	8007	8354
XII	54	a	385	58	6.638	655	119	5.504	770	319
	55	b	397	15	26.466	243	29	8.345	768	125
XIII	58	a	980	2021	0.485	757	1840	0.411	893	831
	59	b	4368	3818	1.144	2329	2669	0.873	3053	3333
	60	c	4239	5115	0.829	3286	5588	0.588	4632	3008
XV	63	a	64736	106783	0.606	60195	56937	1.57	34504	112870
	64	b	3867	2037	1.898	2550	2213	1.152	4800	2347
	66	d	2730	913	2.990	810	269	3.011	804	2749
	67	e	395	397	0.994	222	212	1.047	211	416
	69	g	424	85	4.988	726	182	3.989	908	339
	71	l	3523	336	10.482	1923	174	11.051	1824	5713
XVI	72	a	48854	15485	3.155	25851	10013	2.582	31591	39982
	73	b	20473	4330	4.728	12063	2640	4.560	13482	19784
XVII	75	b	43616	11678	3.761	30311	10530	2.879	39603	33621
	76	c	3671	757	4.840	1827	622	2.937	3016	2323
XVIII	77	a	2689	210	12.804	1546	93	16.623	1191	3401
	78	b	1810	18	100.555	1568	11	142.545	1106	2566
	79	c	444	52	8.538	288	39	7.384	333	384
XIX	80	a	653	24	27.208	388	7	55.428	190	1330
	81	b	619	194	3.191	667	293	2.276	935	442
XX	82	a	2135	320	6.672	3780	282	9.858	1882	5155
	83	b	363	58	6.258	165	24	6.875	150	399
	84	c	1140	185	6.162	773	232	3.332	1430	616
	85	d	1042	40	26.050	739	37	19.972	964	799
			633703			307346			387915	642934

IMPORTS 1948
Continued.

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$P_1 Q_1$: 633,702 $P_1 Q_0$: 387,915

$P_0 Q_1$: 642,934 $P_0 Q_0$: 397,248

$$\sqrt{\frac{P_1 Q_1 \ \times \ P_1 Q_0}{P_0 Q_1 \ \times \ P_0 Q_0}} \ \times \ 100$$

$$= \frac{633,702 \ \times \ 387,915}{642,934 \ \times \ 397,248} \ \times \ 100$$

$$= \ 0.9856 \ \times \ 0.9765 \qquad \times \ 100$$

$$= \ 0.96244 \qquad \times \ 100$$

$$= \ 0.9810 \qquad \times \ 100$$

$$= \ \underline{98.10}$$

. . . .

IMPORTS 1949

			1949			1948			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
I	1	a)	15584	344535	0.045	17914	389725	0.046	17538	15849
	3	c)	799	675	1.184	659	559	1.179	663	796
	4	d)	6190	5180	1.947	5119	1658	3.087	3238	9817
II	6	a)	205	116	1.767	...	111	1.937	1964	226
	7	b)	3822	16584	0.330	2562	7902	0.324	1817	5373
	8	c)	5456	19106	0.286	9008	30792	0.293	8807	5598
	9	d)	6188	4106	1.507	5283	3319	1.592	5003	6535
	10	e)	31699	58460	0.414	63497	104126	0.610	43108	32001
	11	f)	19155	37607	0.509	55785	76894	0.7.3	39139	27264
	12	g)	8405	12846	0.654	7054	8387	0.841	5485	10803
	13	h)	611	680	0.899	481	418	1.151	376	783
	14	i)	433	887	0.487	418	920	0.454	418	403
	15	a)	7976	6158	1.295	5528	3377	1.637	4373	10081
	16	a)	3157	1845	1.711	3394	1269	2.675	2171	4935
	17	b)	16415	36872	0.445	23692	42940	0.553	19106	20353
	18	c)	1823	573	3.182	1634	598	2.733	1903	1565
	19	d)	416	217	1.917	664	412	1.612	790	350
	20	e)	1440	1911	0.754	1882	1953	0.964	1473	1842
	21	f)	343	231	1.481	220	127	1.732	188	400
	22	g)	1741	1089	1.599	1231	682	1.801	1091	1966
	23	h)	2310	333	7.152	1935	323	8.677	1595	2803
V	25	a)	4838	58261	0.083	7765	82378	0.094	6837	5477
	27	c)	32718	390150	0.084	13831	122992	0.112	10331	43697
	28	a)	12792	9764	1.310	12226	9537	1.282	12493	12517
	29	b)	1249	91	13.735	1285	68	18.897	933	1730
	30	c)	7479	5390	1.388	7019	4279	1.640	5939	8840
	31	d)	1583	333	4.753	1386	227	6.106	1515	2033
	32	e)	2000	1308	1.529	1616	992	1.629	1515	2131
	33	f)	453	266	1.703	271	128	3.117	218	563
	34	g)	439	156	2.750	1162	400	2.905	1100	453
	35	h)	2815	12821	0.220	3187	14498	0.220	3187	3821
	36	a)	7572	4507	1.680	5966	2952	2.021	4959	9109
	37	b)	575	48	13.690	475	28	16.964	383	710
	38	c)	182	33	5.515	128	2	64.000	11	2112
VIII	39	a)	8663	3433	2.523	8930	3835	2.329	9676	7995
IX	40	d)	15236	45747	0.333	18010	43590	0.413	14515	18898
	41	d)	309	225	1.373	201	147	1.367	202	308
			223069			291633			231878	378323

IMPORTS 1949

			1949			1948			$P_1 Q_0$	$P_0 Q_1$
			$P_1 Q_1$	Q_1	P_1	$P_0 Q_0$	Q_0	P_0		
			333069:			391633:		)	331878:	378223:
	43:	c)	979:	691:	I.477)	591:	452:	I.308)	640:	904:
X:	44:	b)	I0045:	I0939:	0.918)	7923:	8263:	0.959	7585:	I0491:
:	45:	c)	834:	236:	3.534	608:	I54:	3.948	544:	932:
XI:	46:	a)	39186:	4735:	6.I77	3I5I6:	4000:	7.879	34708:	37238:
:	47:	b)	24841:	2381:	I0.433	26313:	2187:	I2.0062	41489:	32016:
:	48:	c)	33418:	6443:	5.956	40975:	6966:	5.882	718:	2396:
:	49:	d)	I489:	568:	2.621	II08:	274:	4.043	461:	4181:
:	50:	e)	I890:	I391:	I.359	I019:	339:	3.006	4302:	4126:
:	51:	f)	3892:	I71:	22/760	4560:	I89:	24.127	5371:	20564:
:	52:	g)	I5666:	9403:	I.667	7048:	3233:	3.187	4708:	III68:
:	53:	h)	7702:	4395:	I/852	6828:	2687:	3.541	349:	I553:
XII:	54:	a)	I004:	234:	4.290	385:	58:	6.638	262:	583:
:	55:	b)	384:	22:	II.454	397:	I5:	26.466	I23I:	961:
XIII:	58:	a)	II50:	I888:	0.609	980:	2021:	0.485	2860:	6059:
:	59:	b)	3969:	5296:	0.749	4368:	3818:	I.14	4235:	5610:
:	60:	c)	5592:	6767:	0.826	4239:	5II5:	0.829	59265:	75448:
XV:	63:	a)	68066:	I24502:	0.555	64735:	I06783:	0.606	4424:	3821:
:	64:	b)	4378:	2013:	2.I73	3867:	2037:	I.898	2391:	2455:
:	66:	d)	2150:	821:	2.6I9	2730:	913:	2.990	516:	569:
:	67:	e)	743:	572:	I.299	395:	397:	0.994	367:	619:
:	69:	g)	536:	I24:	4.323	424:	85:	4.988	387:	I88:
:	70:	h)	238:	94:	2.532	306:	I53:	2/000	3059:	458I:
:	7I:	i)	3979:	437:	9.I05	3522:	336:	I0.482	55483:	6I355:
XVI:	72:	a)	69669:	I9447:	3.583	48854:	I5685:	3.I55	2I399:	32604:
:	73:	b)	34082:	6896:	4.942	20473:	4330:	4.728	735:	80:
XVII:	74:	a)	I78:	85:	2.094	331:	35I:	0.943	474I3:	49596:
:	75:	b)	53537:	I3187:	4.060	43916:	II678:	3.76I	5445:	979:
:	76:	c)	I453:	202:	7.I93	367I:	757:	4.849	4763:	I7I6:
XVIII:	77:	a)	3039:	I34:	22.679	2689:	2I0:	I2.804	I36:	30I7:
:	78:	b)	2267:	30:	7.557	I8I0:	I8:	I00.555	351:	751:
:	79:	c)	594:	88:	6.775	444:	52:	8.538	871:	354:
XIX:	80:	a)	472:	I3:	36.307	653:	24:	27.208	669:	622:
:	8I:	b)	672:	I95:	3.446	6I9:	I94:	3.I9I	I696:	2075:
XX:	82:	a)	I648:	3II:	5.299	2135:	320:	6.672	447:	285:
:	83:	b)	339:	44:	7.704	363:	58:	6.258	I059:	I263:
:	84:	c)	II74:	205:	5.726	II40:	I85:	6.I62	80:	I850:
:	85:	d)	I42I:	7I:	8.00I)	I042:	40:	26.050)		
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		)	615739:			) 634610:		)	565005:	689715

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