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UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

CONFIDENTIAL

INTERNATIONAL COMPARISON OF INDUSTRIAL STRUCTURE  
AND  
INDUSTRIAL DEVELOPMENT IN ASIAN SELECTED COUNTRIES

VOLUME I  
ANALYTICAL REPORT

Project No: US/RAS/83/261

July 1986

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This report has not been cleared with the United Nations Industrial Development Organization which does not, therefore, necessarily share the views presented.

Volume I  
Analytical Report

Introduction

Part I. Thailand

Part II. Bangladesh

Part III. Sri Lanka

Part IV. Pakistan

Part V. International Comparison

## Preface

During the 1970s industrial progress in developing countries of South and East Asia was remarkable in comparison with that of other countries, both developing and developed. Although the major fields of industrial growth are known, there is little information with regard to the contribution of labour productivity, investment, technological innovation, patterns of industrial specialization or trade. Even less is known with regard to these characteristics when the discussion turns to developments within fields like capital goods, electronic machinery or steel. Such indicators have not yet been comparable between Asian countries or with other international statistics. Owing to these weaknesses in international statistics, judgements as to the types of industrial development in Asian countries or between that region and the rest of the world must be qualified and limited based on the joint study with these countries.

In this connection, a serious investigation of the explanations and sources of industrial growth would be useful to policy-making and economic analysis which are concerned not only with Asian development but with the industrial progress of other developing countries outside the region. Such an investigation is dependent upon a statistical base which provides the analysis with the ability to make a detailed and comparative study of Asian countries. Although a certain amount of national statistics are available, these have been compiled according to different definitions and are collected according to different

concepts because of their national needs, all of which vary, of course, amongst the countries in the region. These types of issues take on added significance in view of the growing importance of Asian industry for the international community and the impact of the global slowdown in industrial activity.

This project is intended to provide: (i) additional data and information to facilitate a comparative analysis of recent industrial development, its consequences and the major factors contributing to this development amongst leading developing countries in South and East Asia, and (ii) an informed analysis of the nature of those structural changes which transpired during the 1970s and early 1980s and the likely consequences for development in the future.

In its initial stages, the project required both desk analysis and a certain amount of field work in connection with the completion of pertinent industrial statistics. The field work for Sri Lanka, Thailand, Bangladesh, Pakistan and India was conducted, during the period from September to December 1984, to search for published and unpublished statistics. Indeed, several of the countries under study did not have the necessary statistics published or unpublished. Where statistics were not available in any form, the field work focused on the collection of those indicators and/or supplementary information to make estimates of the necessary data to support the analysis.

In addition to the field work, Statistics Department, the Institute of Developing Economies (IDESD) has made a desk work for reviewing coverage, concept and definition used in the

manufacturing statistics and for compiling both general industrial statistics and commodity balance table of key commodity, for selected Asian countries.

On the other hand, analyses of industrial development of four countries, Sri Lanka, Thailand, Bangladesh and Pakistan have been made based on the information gathered from the field work and the publications.

Finally, we should express many thanks for kind collaborations given by statistical offices, other governmental offices concerned with industrial statistics and policies, and the other organizations, private or public, of Asian countries, especially Bangladesh, India, Pakistan, Sri Lanka and Thailand, and the UNDP Offices in these countries, who generously contributed their time and expertise, to discuss with the field survey mission.

Koichi Nonaka  
Director  
Statistics Department  
IDE

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## 1.1 Composition of the project team

The project team on International Comparison of Industrial Structure and Industrial Development in Asian Selected Countries

is composed of the following team members:

Project co-ordinator:

Koichi Nonaka,  
Director, Statistics Department

Assistant project co-ordinator

Shunichi Furukawa,  
Chief, Statistical Planning Division,  
Statistics Department, IDE (IDESPD)

Takao Sano,  
Senior Research Officer, Statistics Department

Bangladesh

Miss Mitsue Osada,  
Current Affairs Department IDE (IDECAD)

Mr. Katsuhiko Sato,  
Assistant Chief, Electronic Data Processing Division  
Statistics Department, IDE (IDEEDPD)

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Miss Eriko Shinohara, IDESPD

Hong Kong

Miss Seiko Kawamata, IDESPD

India

Ms. Yurie Sato, IDESPD

Indonesia

Miss Eriko Shinohara, IDESPD

Korea, Republic of

Miss Seiko Kawamata, IDESPD

Malaysia

Ms. Chinami Yamaji, IDESPD

Pakistan

Mr. Hiroki Fukamachi, IDECAD

Ms. Yoshie Aihara, IDESPD

Philippines

Ms. Yoshie Aihara, IDESPD

Singapore

Ms. Chinami Yamaji, IDESFD

Sri Lanka

Prof. Hisashi Nakamura, Ryukoku University

Ms. Chinami Yamaji, IDESPD

Thailand

Mr. Akira Suehiro, Area Research Division, IDE

Ms. Yurie Sato, IDESPD

## 1.2 Schedule of the Project (Jul. 1984 to Oct. 1985)

The project was carried out as the following schedule:

- (1) Collation and exchange of data between IDE and UNIDO for identifying countries to be covered by field surveys (Jul. 1984 to Sep. 1984)
- (2) Detailed discussion between IDE and UNIDO concerning field surveys (Aug. 1984 to Oct. 1984)
- (3) Primary compilation of trade data and industrial data from national and international sources (Oct. 1984 to Oct. 1985)
- (4) Preparatory work for field surveys (Aug. 1984 to Oct. 1984)
- (5) Field surveys (Sep. 1984 to Nov. 1985)
- (6) Preparation of the draft final reports:
  - (a) statistical report, and
  - (b) analytical report(Nov. 1984 to Oct. 1985)

### 1.2.1 Primary compilation of Trade and Industrial Data from National and International Sources

The UN and UNIDO has compiled general industrial statistics and commodity statistics [1], and constructed those data base [2] for public use. Those data are, of

course, compiled based on the reporting from the national statistical offices or governmental organizations concerned with industrial statistics of the countries to the UN Statistical Office, in principle. However, if any report is not available from those organizations, the UN Statistical Office or UNIDO Unit of Survey and Statistics has estimated or supplemented by their own connections to the reliable and relevant agencies. In spite of those efforts, UN and UNIDO data has not covered all the countries and categories sometimes. Furthermore, data from UN and UNIDO is not consistent from the national data sometimes. The project team started from the point to study actual situation of statistical data obtained from various sources. The results were arranged in the Statistical Report (Volume II).

In the most cases, UN and UNIDO data are just same with the national data, but there are few cases that international data and national data are differed from each other, such as Thailand. Next case is UN and UNIDO covers data for limited period but national data covers more period. Especially, data in respect to Thailand industrial statistics are available for 1974 to 1977 and for 1979 from the Industrial Census in Thailand, but UN and UNIDO did not cover data for those periods.

The project team examined carefully statistical data from national and international sources and

compiled comparative tables between several sources.

[1] UN, Yearbook of Industrial Statistics, Vol. I, General Industrial Statistics, and Vol. II, Commodity Production Statistics

[2] UNIDO, UNIDO Data Base (UDB), Statistics and Survey Unit (SSU) of the Division for Industrial Studies

#### 1.2.2. Field Surveys

For several major countries, available data is inadequate or non-existent and supplementary field surveys was required. Based on a view of the qualities of the country data available in UNIDO, Asian five countries were selected as the subject of field work (see Table 1). These surveys were carried out by five teams which were consisting as follows:

##### Statistical Co-ordinator

Dr. M. Sikhander Khan

UNIDO Consultant

##### Sri Lanka

Professor H. Nakamura, Ryukoku University,  
Kyoto

Mr. S. Furukawa, Chief, Statistical Planning  
Division, Statistics Department, IDE (IDESPD)



Ms. C. Yamaji, IDESPD

Thailand

Mr. A. Suehiro, Area Research Department, IDE

Mr. Y. Sato, Assistant Chief, IDESPD

Bangladesh

Ms. M. Osada, Current Affairs Department, IDE

Mr. S. Furukawa, Chief, IDESPD

Mr. K. Sato, Assistant Chief, Electronic Data  
Processing Division, Statistics Department,  
IDEEDPD

Pakistan

Mr. H. Fukamachi, Current Affairs Department,  
IDE

Mr. S. Furukawa, Chief, IDESPD

Ms. Y. Aihara, IDESPD

India

Mr. T. Yamada, Industrial Development  
Officer, UNIDO

Objectives of the field surveys are summarised as follows:

i) Identification of existing data problems with respect to international comparability.

ii) Identification of necessary data and information to be compiled which could, later, enable the project team to develop a complete set of internationally comparable statistics (e.g., data

arranged according to the UN International Standard Industrial Classification-ISIC).

iii) Whenever possible, establishment of standard criteria and methods to be applied in compilation of required data in the five countries.

iv) Compilation of required data from relevant data sources in each country. These data sources included not only the national statistical office but also central banks, various ministries (labor, industry, planning, trade, etc.), manufacturers' associations, marketing board, etc., which these institutions also compile and/or surveyed industrial data necessary for the project.

v) Types of data to be compiled, all pertaining to the manufacturing sector, would include the following indicators for 1970 to the latest year at an ISIC 3-digit, ISIC 4-digit and ISIC 6-digit (for commodity production data only) level of disaggregation: (a) value added; (b) gross output; (c) wages and salaries; (d) employment; (e) number of establishment; and (f) commodity production in quantity term. Furthermore, the field survey team is to obtain information regarding the definitions and concepts employed in these statistics.

In addition to statistical information, the team was responsible for the collection of information on major industrial policies, pattern of ownership, trends in product specialization and development and the role

of foreign capital in the leading growth industries.

### 1.2.3. Preparation of the Draft Final Reports

The project team started to prepare the draft final reports based on the results of the field surveys mentioned above and of primary compilation of international trade data and industrial data from national and international sources. For this stage, IDE's computer were highly and efficiently utilized and necessary data were stored in the disk device, so that it is possible easily to access the data for the project.

### 1.3. Structure of the Reports

This report consists of two volumes: (1) Analytical Report and (2) Statistical Report. Analytical Report covers industrial development in following four countries: Thailand, Bangladesh, Sri Lanka, and Pakistan. On the other hand, Statistical Report covers twelve countries as shown in Table 2.

#### 1.3.1 Analytical Report

This volume aims at the international comparison of industrial development in four countries whose industrial statistics are not necessarily available or satisfied for international uses. Therefore, an analysis of industrial development process for those countries has not yet been carried out based on their basic statistics. For example, in respect to Thailand, employment data given by the UN source covers only the period upto 1971, even though National Statistical Office, Thailand published the data upto 1979 at the present time. An economic analysis and an international comparison could not be done by the users of international industrial statistics. In this report, the project team tried to estimate consistent serial statistics for Thailand, and used those results for the discussion of Thailand industrial development.

Next, for Bangladesh, there are quite big discrepancies between the data supplied by the national source and from the international source. This case will

also lead analyses and international comparisons to the wrong conclusions. Then, project team made comparative tables in Statistical Report (Vol. II) and the national data were used for analyses. Therefore, the results of analysis was approached to the more realistic situation than the analysis which was based on the UN data.

Thirdly, the industrial statistics of Sri Lanka were provided by three different organizations, (1) Department of Census and Statistics, (2) Ministry of Industries and Scientific Affairs, and (3) Central Bank of Ceylon. Each source has its own merits from the others. For time-series analysis, the Central Bank data are more convenient than the others, but the coverage is not satisfied, and industrial categories are very aggregated and only the figure for ISIC 1-digit is available. For this reason, this analysis is forced to be limited to the extent of the broad discussions comparing with the results of study on Thailand.

Fouthly, it should be mentioned to the analysis of Pakistan industrial development and to the statistical environment. Its situation is almost same with Thailand case, e.i., the international data are not satisfied even though the national data are arranged well. The UN publication presents only the data upto the year 1971, but the Federal Bureau of Statistics, Statistics Division, Pakistan, released serial data up to 1981.

Finally, the international comparison was made by using the international statistics published by United Nations Statistical Office and UNIDO, and IDE international trade database (AID-XT: Ajiken Indicators for Developing Countries, External Trade Database). This is a kind of statistical analysis and more detailed discussion will be needed, but this does not decrease a value of statistical approaches.

### 1.3.2 Statistical Report

Statistical Report (Volume II) consists of twelve parts by country. Each part, in principle, contains (1) explanatory notes on manufacturing statistics, (2) general industrial statistics, (3) convertor between ISIC and national standard industrial classification, and (4) commodity balance sheets for selected commodities.

In the explanatory notes on manufacturing statistics, major points, such as sources of manufacturing statistics, coverages of the surveys, classifications used in the surveys, estimation methods, response rates, definitions, etc., are included for each country.

In general industrial statistics, the project team collected data from several data sources, e.i., the UN Statistical Office, UNIDO, national statistical office, and other major source of industrial statistics.

Statistical tables cover following indicators:

- (1) Number of establishment

- (2) Number of employment
- (3) Gross output
- (4) Wages and salaries
- (5) Value added
- (6) Gross fixed capital formation
- (7) Index number of industrial production

This stage aims at reviewing the actual statistical situation of each country, so that it was not decided as if which source would be more reliable among several sources in the country under study.

Convertor system between ISIC and the national standard industrial classification was established by the project team, even though there are still undefined parts in the convertor. This will be very helpful for the future compilation of the international industrial statistics.

Commodity balance sheets were compiled for evaluating the commodity production data and for over-viewing the trend of key commodity production in each country. For this purpose, the project team selected major commodities in each country. However, difficulty is how to find conversion factors for getting standard unit system, for example, how to convert local weight unit to international one.

This project has just started for compilation of international data from the national data. Although the project team tried its best effort to obtain the better results, there are still many weak points in the reports. For the international statistical users, it should be necessary to study more how to get the

reliable international data from the national statistical sources. For this purpose, it will be recommended that the international statistical organizations should present a concrete guideline for compilation of international data to the national statistical offices and/or related organizations.



Table 1. Availability of statistical data at ISIC 3-digit level for the period 1970-1979

Country	Industrial statistics						All six industrial statistics <sup>a/</sup>
	Employment	Salaries & wages	Gross output	Value added	Investment	Production indices	
Bangladesh	○	○	○	○	×	△	△
Burma	×	×	×	×	×	×	×
India	○	○	○	○	△	△	△
Hong Kong	○	○	○	○	○	○	○
Indonesia	○	○	○	○	○	△	○
Korea, Republic of	○	○	○	○	○	○	○
Malaysia, West	○	○	○	○	○	△	○
Nepal	×	×	×	×	×	×	×
Pakistan	△	△	△	△	△	×	×
Philippines	○	○	○	○	○	△	○
Singapore	○	○	○	○	○	○	○
Sri Lanka	○	×	△	×	×	△	×
Thailand	×	×	×	×	×	×	×

a/ With priorities on value added, production indices and wages and salaries.

key: ○: good coverage

△: fair coverage

×: bad coverage

Table 2. Countries to be covered and responsibilities of IDE (I) and UNIDO (U)

Country	Compilation of Statistical data		Industrial Trade data		Compilation of other information necessary for preparation of draft final report <sup>b/</sup>		Primary processing of statistical data (except for trade data)		Preparation of survey reports and draft final report		Analysis, computation and editing		Publication
	Field	Desk	Field	Desk	Field	Desk	Field	Desk	Field	Desk	Field	Desk	
Bangladesh	I <sup>c/</sup>	UI	U	U	I	I	I	I	I	I	I	I	U
Burma		UI	U	U	I	I	UI	UI	I	I	I	I	U
India	U <sup>d/</sup>	UI	U	U	UI	UI	UI	UI	UI	UI	I	I	U
Hong Kong		UI	U	U	I	I	UI	UI	I	I	I	I	U
Indonesia		UI	U	U	I	I	UI	UI	I	I	I	I	U
Korea, Republic of		UI	U	U	I	I	UI	UI	I	I	I	I	U
Malaysia		UI	U	U	I	I	UI	UI	I	I	I	I	U
Pakistan	I <sup>c/</sup>	UI	U	U	I	I	UI	UI	I	I	I	I	U
Philippines		UI	U	U	I	I	UI	UI	I	I	I	I	U
Singapore		UI	U	U	I	I	UI	UI	I	I	I	I	U
Sri Lanka	I <sup>c/</sup>	UI	U	U	I	I	I	I	I	I	I	I	U
Thailand	I <sup>c/</sup>	UI	U	U	I	I	I	I	I	I	I	I	U

a/ Subject to be altered

b/ See B-3 and -4-(ii)

c/ A survey team consisting of one statistician and one country specialist both from IDE, and one co-ordinating officer from UNIDO may join with the survey teams.

d/ A survey team consisting of one co-ordinator and one country specialist both from UNIDO.

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## INTRODUCTION

This report was prepared as a part of the IDE project on the "Manufacturing in Asian Countries" to meet with the requirement of the UNIDO. The main purposes of the report are two. One is to provide basic information concerning manufacturing in Thailand, and to construct the statistical data in series which are comparable to those in other Asian countries. The other one is to give a brief description on its changes in various aspects in connection with the Thai economy for the past time.

The report consists of five chapters. The first chapter deals with a brief history of the Thai manufacturing and the industrial policies undertaken by the government. The second chapter provides overviews on the contribution of manufacturing to growth of the national economy during 1960-80 on the levels of gross domestic products, employment and foreign trade.

The third chapter is a major part of the report. In this chapter, the more detailed informations are collected from various sources such as the National Economic and Social Development Board (NESDB), the Bank of Thailand, the Ministry of Industry, the Ministry of Commerce, and the Labor Department; and the collected data are adjusted in accordance with the industrial classification adopted by the UNIDO. (28 industries in the three digit in ISIC). Major topics discussed in this chapter are the value added, the gross output, the number of establishments, regional and industrial distribution of manufacturing factories, the size distribution of manufacturing factories, trade structure, foreign and domestic investments in manufacturing, and so on. Sources of the manufacturing growth in Thailand is briefly examined for the past two decades.

The fourth chapter attempts to clarify the characteristics observed in market structure of manufacturing. Examination is made in relations not only to the progress of import substitution and export expansion, but also to the prominent existence of oligopoly in markets in the selected industries.

The last chapter summarises problems facing the Thai manufacturing in association with a new stage of industrialisation of Thailand. Expected direction of industrial development of Thailand in the future is examined by introducing the opinions and views of two different major economist groups on the Thai economy, consisting of

industrial restructuring group and rural development group.

Most of informations concerning the Thai manufacturing contained in the report were collected through the field survey conducted in Thailand in October 1984 in co-operations with the Ministry of Industry and the UNIDO. Various statistical data compiled by the Statistical Department of the IDE were employed too.

## CHAPTER 1

### INDUSTRIAL DEVELOPMENT AND INDUSTRIAL POLICIES

#### 1. Manufacturing in the Pre-War Period

1.01 The Bowring treaty of 1855 marked the new era for the Thai economy. The opening of the Thai economy to free trade led to export expansion along with specialising in the few selected commodities such as rice, teak, and tin ores. Export expansion of local primary products, in turn, helped financing the increased import of the manufactured goods such as textiles and machinery from the Europe and gunny bags from India.

Underdevelopment of competitive local industries caused influx of foreign manufactured goods into domestic market, and which furthermore was enhanced by the very low import duty system (merely 3%) set up in the commercial treaties with the Europe. As a consequence, imported goods destroyed the existing infant domestic manufacturing industries as seen in the cases of sugar refining industry, spinning and weaving industries with hand looms, and primitive steel industry, and Thailand was virtually integrated into the world economic system as an agricultural country.

1.02 Major manufacturing industries in the early period were only two: rice milling and saw milling which were closely related to exports of rice and teak. Except for these industries, there were very few modern type manufacturing plants in Thailand. The British consul reported in 1919 that there were only seven "factories" in Bangkok. The seven included a cement plant, three aerated water plants, a soap factory, a cigarette factory, and a leather factory. Of these, only two were the result of Thai capital: the Siam Cement Co., Ltd. (1913) and Nai Lert's ice factory. The former was owned by the Privy Purse Bureau, but actually operated by the Danish.

Following the years, there was no remarkable change in the Thai manufacturing. For instance, the Ministry of Commerce disclosed very pessimistic view to the prospect of the Thai industries in the report of 1926. The reporter claimed that:

"With a few important exceptions (84 rice mills operated by the Chinese merchants and five large-sized saw mills operated by the European---author), it cannot be said that Siam is in any sense of the word developed industrially. It is essentially an agricultural country, and such it will probably always remain".

1.03           The 1932 Revolution which had abolished the absolute monarchy system changed the traditional industrial policy of the government. Since the government were requested to restore the deteriorated economic conditions after the world crisis in 1929, and to construct "national economy for the Thai people", it planned the new economic policy aiming at the state's participation into the economic activities in every field. Under this policy, the government employed two major tactics to promote the Thai industries. One of two was establishment of a large number of state enterprises. The other was the takeovers of the existing manufacturing plants operated by either the Chinese or the Europeans.

## 2. Manufacturing in the Post-War Period

1.04           Between 1923 and 1960, a total number of 41 state-owned manufacturing factories, together with 60 government-sponsored companies were formed according to the various regulations. But these state enterprises and public companies did not so much contribute to industrialisation of Thailand in early time. Limited domestic market, no advanced technology in local industries, and lack of the consistent industrial promotion policy by the government, combined to form the obstacles for development of the infant manufacturing industries of Thailand in this period.

1.05           Aside from the economic elements, political elements also seemed to have given a great impact on the Thai economy in this time. Especially after the 1947 military coup, political and military leaders without exceptions entered state enterprises and public companies as shareholders and/or board members, and tried to get rid of profits produced by these firms in order to bolster their own groups. At the same time, they paid little attention to the effective operation of these firms, which in the long run disturbed and distorted development of manufacturing in Thailand as many researchers already pointed out.

1.06 During the period from 1950 to 1957, before the Sarit regime, the average annual growth rate of manufacturing was only 5.6%, which was by far lower as compared to 10.2% during the First Six Year Economic Development Plan (1961-66). Furthermore, industrial structure in this period was over specialised. The combined shares of the three major industries consisting of food, beverages, and tobacco in the total value added, was 65% in 1950, and 62% even in 1957. GNP per capita at current prices also showed little change during the 1950s: from 1,346 baht in 1951 to 1,780 baht in 1957.

1.07 In this period state-controlled manufacturing factories had constantly produced around 20% of the total value added in manufacturing. Although type of industries undertaken by the government was widely diversified, over 80% of the value added produced by the state enterprises in actuality came from only two industries: tobacco (61%) and cement (10%) in 1959. Other important industries contributing to the value added included liquor and sugar, but no industries which employed modern technology.

1.08 Industrial development in real sense started after the end of the 1950s. The Sarit regime, which seized the political power in military coup of 1958, changed the conservative policies to the state enterprises, and actively geared for industrialisation by promoting the participation of private capital into manufacturing. Important elements contained in the economic policies of the Sarit government may be summarised as follows:

1) The government for the first time introduced economic planning into Thailand. In 1959, The National Economic Development Board (NEDB, later changed its name into the National Economic and Social Development Board, or NESDB) was set up as an organisation exclusively responsible for making and carrying out the plan. As early as 1961, the First Six Year Economic Development Plan was put into effect under the financial and technical assistances of the United States

2) The government adopted investment incentive policies in order to attract local private capital as well as foreign capital. These incentives included tax exemptions, tax holidays, and freedom of profits' remittance. Establishments of labor unions and labor associations were prohibited by the government to protect the rights of investors. In addition, the foreigners were permitted to hold lands beyond the regulations of the Land Code of 1954, if the government would promote their investments. Finally in 1959, the Board of Investment (BOI) was set up an independent office to deal with the above matters for the promoted firms. At the same time, the Industrial Promotion Act of 1960 (revised in 1962)

was enacted to empower the BOI to conduct the overall aspect of industrial promotion.

3) Along with this investment promotion, the government attempted to restructure the tariff system of the selected products to protect the local infant manufacturers.

4) Lastly, the government virtually prohibited state participation in those commercial and industrial activities which might be expected to directly compete with private firms. The government also promised to regulate the expansion of existing state enterprises in the future. The role of the state was confined to providing infrastructure, and improving the investment climate in favor of the private firms.

1.09 Industrial promotion policies stated above served as an instrument to bring about economic development with a high growth rate in the next two decades. Table 1.1 shows both the targets of the government and the actual economic performances for the four periods from the First Plan (1961-66) to the Fourth Plan (1976-81). As indicated in the table, the annual growth rate in terms of GDP for the past time reached a satisfactory level as compared to the targets set up in each Five Year Economic Development Plan. Especially, the manufacturing sector could enjoy a more rapid growth with the assistance of industrial promotion policy of the government. Its annual growth rate showed as high as 9-10% in this period.

### 3. Changes in Industrial Policies

1.10 The trend and structures of the Thai manufacturing will be discussed in detail in the following chapters. Here the report points out several problems facing the Thai economy during the 1970s. Major problems which took place in line with industrialisation may be summarised as in the following: Firstly, trade deficit has rapidly increased under the process of industrial development after the late 1960s. According to the original purpose, the government promoted the import substituting industries to save foreign currency. In fact, during the 1960s, the proportion of consumers' goods which occupied in the total import value quickly dropped due to expansion of domestic production. But the growth of the import substituting industries in turn caused a rapid increase in import of intermediate goods and capital goods. In addition, the oil crisis tremendously increased the price of imported crude oil into Thailand. The government thus was required to switch her policy to promotion of the export-oriented industries to improve increasing trade imbalance. This policy was put into effect by the announcement of the Revolutionary Party in 1972, and then was enacted in the New Industrial Promotion Act of Investments of 1977.

1.11 Secondly, industrial promotion policy seems to have essentially worked in favor of the large-sized firms including the multinational enterprises advancing into Thailand. This is because that the government usually regulated the promoted firms to satisfy several conditions such as minimum amount of investments and minimum of production capacity in their formations. This policy in practice implied that the large-sized firms alone, who had already accumulated capital funds to meet requirements of the government, might be able to enjoy the privileges in the promoted industries.

1.12 Besides, local merchant class, especially importers also enjoyed the benefits from the government policies. Since they, mostly the Chinese-Thai people, had strong connection with the foreign trading companies and manufacturers through their importing business, they could depend on the imported technology and a part of the necessary capital funds in the form of joint-ventures with foreign capital when they expanded their business activities in manufacturing.

1.13 On the contrary, local small-sized manufacturers, who had emerged during the 1950s, were substantially alienated from the government assistance. They had neither opportunity to apply to the BOI promotion nor opportunity to form joint-ventures with foreign capital. As a consequence, there took place the bi-polarization in development between two groups in manufacturing, namely, development of the large-sized firms based on the joint-venture system on the one hand, and underdevelopment of the small-sized firms on the other hand.

1.14 It is after the late 1970s when the government turned her eyes to the importance of small-scale industry in economic development. Especially unemployment and under-employment problems called the government attention to the small-scale industry in relations to its role in creating job opportunities. Aside from this element, the government noticed that lack of international competitiveness in the export-oriented industries of Thailand partially rooted in underdevelopment of the fundamental industries such as machinery which was mainly supported by the small-sized firms. The government thus for the first time planned promotion of small scale industry in the Fifth Economic Development Plan (1982-86).

1.15 Lastly, income disparity between in rural areas and in urban areas, especially Bangkok, has emerged as a serious problem to be solved for the government. Widening

disparity for the past time can be attributed mainly to the elements originated in underdevelopment of the agricultural sector such as low productivity, lack of the irrigation facilities, lower price of paddy on the farm level, and so on.

1.16 But it may be claimed that industrial promotion also contributed more or less to such widening income disparity between in two areas. For under the process of industrial promotion, most of the promoted industries were constructed in Bangkok and the nearby provinces due to the easiness of access to infrastructure. As a result, Bangkok and the nearby areas produced around 70% of the total value added in manufacturing in the whole country. Regional development, together with rural development, thus become a new target to be achieved for the government in recent time. In this policy, dispersion of manufacturing factories to the other regions is expected to create new job opportunities and to provide off-farm income sources to farmers.

1.17 As stated above, the government of Thailand in recent time envisaged three major policies concerning manufacturing. They are 1) promotion of export-oriented industries; 2) promotion of small-scale industries; and 3) regional development of manufacturing factories. In the following chapters, the report will examine that whether the government could accomplish her targets or not, and how the Thai manufacturing has changed in line with new policies.

## CHAPTER 2

### MANUFACTURING IN THE THAI ECONOMY

#### 1. GDP, Value Added, and Growth Rates

2.01 It is after the early 1960s that the government of Thailand actually geared for industrialisation through investment incentives and an active introduction of foreign capital. Although the start of industrialisation was relatively late as compared to other Asian countries, Thailand could enjoy a more rapid industrial growth, spearheaded by manufacturing, over the past two decades. As shown in Table 2.1, the GDP at constant prices (1972 prices) in Thailand increased by 4.2 times, or from 70,139 million baht in 1960 to 292,852 million baht in 1980. GNP per capita at current prices also jumped from 2,065 baht to 14,475 baht in the corresponding period. Thailand now is ranked as the

third country in terms of GNP per capita among the ASEAN countries.

2.02 Table 2.2 indicates the average annual growth rate in each five year of agriculture, manufacturing, and the GDP from 1960 to 1980. Manufacturing has constantly been one of the largest contributors to economic growth of Thailand, and its annual growth rate is 10.39% during 1960-80, by far faster than the GDP growth of 7.41%. Looking at the situation in each period, we can find that manufacturing growth has always achieved over or little less than 10% in average. But during the latest three years (1980-83), industrial growth sharply fell to 5.89% per annum due to serious impact of the second oil crisis, although it was still higher than the GDP growth of 5.4%.

2.03 Agricultural sector also showed fairly high growth during the 1960s, and provided raw materials and domestic market to the manufacturing sector. But its average annual growth rate has gradually fallen after the 1970s, especially in the latter part of the 1970s. During 1960-80, it remains 4.85%, less than half of that in manufacturing. As a consequence, contribution of manufacturing to the total value added increased from 12.0% in 1960 to 20.7% in 1980, whereas the agricultural sector dropped from 40.2% to 24.9% in the corresponding period. Manufacturing is likely to surpass agriculture in terms of the value added at constant prices in the latter part of the 1980s.

## 2. Employment

2.04 A remarkable change observed in the GDP, however, does not accompany a comparable change in composition of the labor force. It is true that labor force employed in manufacturing numbered 1,789 thousand persons in 1980, growing from 470 thousand persons in 1960. In addition, manufacturing absorbed 1,106 thousand persons, or 18.8% of the total increase of labor force between 1970 and 1980. But its share in the total labor force represented merely 7.9% against 70.8% by agriculture.

2.05 If compared with other ASEAN countries, agricultural population shows impressive high percentages to the total employment. Several reasons may be put forward to account for this fact. Introduction of double cropping in paddy growing and new commercial crops like maize on the one hand, and no regional development of manufacturing factories on the other hand, combined to prevent agricultural population moving to the manufacturing sector. But what should be quickly noticed here is the fact that although it is reported that a large number of temporary workers employed in



manufacturing and services are migrating from rural areas in off-farm season, they are not included in a category of non-agricultural population. If this fact is taken into consideration, the proportion of manufacturing population will be higher than that expressed in the table.

### 3. Trade Structure

2.06 Another significant indicator concerning the progress of industrialisation is the changes in trade structure. These changes have been taken place in both imports and exports. Table 2.4 indicates the changes in imports of Thailand, classified by the kind of imported commodities. As clearly shown in the table, the share of consumers' goods occupied in the total import value quickly dropped from 39.2% in 1960 to 16.9% in 1980. On the contrary, intermediate goods consumed in capital and consumers' goods increased their shares in the same period. This drastic change in import composition by commodities suggests that industrial development of Thailand was based mainly on the import substituting industries.

2.07 In exports, notable changes took place too. That is the growth of the manufactured export. Regarding the definition of the manufactured goods, there are different measurements according to the statistics. The report employs the most popular one, based on the SITC classification in which the manufactured goods are defined as commodities included into the categories of SITC 5 to 8 less SITC 68 (non-ferrous metal products: tin in the case of Thailand).

2.08 The aggregated export value and its share occupied in the total exports are computed in Table 2.5. According to the table, the share of the manufactured goods had been very low until the year of 1970. But after the 1970s, it has steadily increased, and represented over one-fourth of the total export value. The growth of the manufactured exports in terms of value, accompanied the diversification of commodities to be exported. These commodities include jewelry, textiles and processed seafoods in the first half of the 1970s, and garments, integrated circuits, canned fruits and frozen chickens in the second half of the 1970s. All of these exported commodities from Thailand belongs to products produced by either labor-intensive industries such as garments manufacturing or selected industries consuming domestically-produced raw materials such as seen in canned fruits.

2.09 Table 2.5 summarises the industrial sector in

association with the national economy in the selected years of 1960, 1972 and 1980. Various indicators employed in the table clearly show the industrial growth of Thailand for the past decades.

### CHAPTER 3

#### TRENDS AND STRUCTURE OF MANUFACTURING

##### 1. Value Added and Gross Output

3.01 Two statistical data are available as information sources concerning the value added. One is the Industrial Census made by the National Statistical Office (NSO), and the other one is the National Accounts table prepared by the National Economic and Social Development Board (NESDB). The Industrial Census survey in Thailand was conducted in the years of 1964, 1970, 1975, 1977 and 1979. But, unfortunately, these surveys had no consistent methodology, and coverage of the surveyed firms are different, depending on the survey year. The report therefore cannot use the figures contained in the Industrial Census as the time series data about the value added of manufacturing.

3.02 The National Accounts table gives us the most useful informations in series in evaluating the activities of the Thai manufacturing sector. At the same time, consistent methodology is supposed to be employed to estimate the value added during the period from 1950 to the present time. The National Accounts table, however, holds two major problems in relations to the classification of industries and the estimation of the value added in several industries.

3.03 In the case of the central offices of Thailand, they usually use their own industrial classification, namely TSIC. Furthermore, in the National Accounts table, the manufacturing sector is classified into twenty groups, not identical with twenty eight groups adopted in the UNIDO. Secondly, since information sources employed in computing the value added are different according to the type of industry, the gap between estimated figures and actual figures is not same among the industries. For instance, in the cases of rice milling and furniture, estimation of their value added is conducted mainly by using the gross output of their raw materials such as logs and paddy with the assumed conversion ratio into finished goods. In other industries, collected tax is employed as a basical information to estimate the value added of industries as seen in the case of liquor manufacturing,

while firms' survey for cement industry. Such differences in measurement cause over or under estimation of the value added in some industries.

3.04 The report thus attempts to basically employ the I-O tables in order to escape a possible error contained in the National Accounts table, and to meet the requirement of the UNIDO concerning the industrial classification. For the I-O table of 1975 is believed the first comprehensive statistical work to construct approximately actual figures about economic activities including manufacturing in Thailand. More conveniently, in the I-O table, manufacturing is divided into 93 industrial categories (I-O code from 042 to 134), which can easily be reclassified into industrial groups in accordance with the UNIDO's methodology.

3.05 Table 3.1 shows the time series data on the value added of the twenty eight industries in Thailand. The figures of 1975 alone are computed from the I-O table, whereas the other ones are estimated from the 1975 figures by assuming that the changes in the value added of a certain industry year by year is to be coincide with annual growth rate of the industry concerned computed from the National Accounts table at current prices.

3.06 Regarding the gross output of each industry, it is more difficult to construct the estimated time series data. This is because that there is neither official data about the gross output classified by industry nor the surveyed ratio of the value added to the gross output excepting two years: 1975 and 1980. Therefore, in the report, the period is divided into two parts: the first one is the period from 1970 to 1978, and the second one the period from 1979 to 1982. And it is assumed that there is no change in the ratio of the value added to the gross output (ratio of VA/GO, nearly showing net income ratio) in each period. The reason why that the table divides the periods before and after 1979 is to take serious impacts of the second oil crisis on the ratio of VA/GO into consideration. But the impact of the first oil crisis is neglected here because of the limited informations. Estimated gross output, classified by industry is computed in Table 3.1 by using this estimated ratios of VA/GO and the value added.

3.07 Aside from the above estimation based on the I-O tables, the report also endeavored to estimate the gross output of manufacturing after 1970 by combining the Product Index in the twenty industries with the Wholesale Price Index in the selected industries, all of which is prepared by the Bank of Thailand. But since the number of industries whose

wholesale price index are available continuously is very much few, it is impossible to make another time series data on the gross output.

3.08 Tables 3.2 and 3.3 show the estimated annual growth rates of the value added and the gross output at current prices and contribution of each industry to the growth of manufacturing in terms of the value added from 1970 to 1980. According to Table 3.3, the largest contributor to the increased value added between 1970 and 1980 is food processing (17%), followed by textiles (11.3%), transport equipments (7.75%), petroleum (6.45%), and wearing apparels (5.82%). But, in terms of growth rates in the same period, wearing apparels showed the most prominent growth, followed by iron and steel, transport equipments, paper and pulp, and electrical machinery.

## 2. Number of Establishments

3.09 There is no authorised data which accurately show the trend of the number of establishments in Thailand. The only available information source is the statistics on the registered factories which are published periodically by the Factory Control Division of the Ministry of Industry. The figures on the number of the registered factories are available after 1980. But they were very much unsatisfactory ones, and no consistent methodology was employed until 1972.

3.10 This information, however, has several limitations in estimating the actual number of existing establishments in Thailand. Firstly, the statistical data about establishments refer only to "factory" defined in the Factory Control Act of 1969, in which factory is defined as either the establishment with 7 employees and over or the establishment with electrical motors of two horses power and over. As its consequence, most of the family operated factories and small-sized factories are supposed to be excluded from the informations compiled by the Factory Control Division.

Secondly, the statistics, exactly saying, cover only the factories registered legally in the Ministry of Industry. A large number of unregistered factories, most of which belong to a group of small sized firms, are excluded too. Surprisingly, it is said that the unregistered factories represent around one-third of the total number of existing establishments.

3.11 Bearing such limitations as stated above in mind, let us look at Tables 3.4 and 3.5 which were made from the primary informations compiled by the Factory Control

Division. Table 3.4 indicates the trend of the number of the registered manufacturing factories in the whole country from 1972 to 1982. As shown in the table, its number quickly increased for over ten years: from 33,236 in 1972 to 86,015 in 1982, or by 2.59 times. What should be remarked here is the fact that around two third of the total number of manufacturing factories in Thailand belong to rice milling factories which scatter in the whole country. If excluding rice mills, we can discover that the number of non rice milling factories reduced to 12,170 in 1972 and 41,990 in 1982. But since the growth of non rice milling factories has been faster than that of rice mills, the share of the former which occupies in the total number increased from 36.6% to 48.8% in the same period.

3.12 Tables 3.5a, 3.5b and 3.5c provide the detailed informations about the distribution of the registered factories, classified by the type of industry and by region. In the table, all of the registered factories are re-classified from 98 industrial groups originally adopted in the Ministry of Industry into 30 industrial groups: twenty eight industries plus food manufacturing II (ISIC 312) plus repair shops).

3.13 As illustrated in the three tables, the food manufacturing industry including rice milling has always accounted for over 60% of the total number of the registered factories. The next largest group is the industry of manufacturing or repairing machinery (5,353 in 1982), followed by metal products (4,311), wood and cork, mostly saw mills (3,563) and non metallic mineral products such as brick and cement (2,367).

3.14 Although the number of wearing apparels manufacturing factories is supposed to be very large, the registered ones in the Ministry of Industry numbered merely 1,201, smaller than that of textiles because that a larger part of family operated factories are excluded from the statistics. In fact, according to the estimation of the Thai Textile Manufacturing Association, wearing apparels industry alone employed over 340,000 employees against 136,000 employees in other textile industries.

3.15 Regarding the regional distribution of the registered factories, the Northeast region occupies the largest portion in the total number, due mainly to existence of a large number of small sized rice mills in rural areas (33.9% in 1982). The second largest area is Bangkok (21.9%), followed by the North region (15.7%), and then the Central region excepting Bangkok (14.3%). But if excluding rice

mills, we can find the very different picture about the regional distribution of manufacturing factories. This topics will be remarked in the next section.

### 3. Regional Distribution of Manufacturing

3.16 Table 3.6 shows the regional distribution of the registered manufacturing factories excepting rice mills in 1980. The figures contained in the table tell us the prominent characteristics observed in allocation of manufacturing in Thailand. That is, highly concentration in two areas: Bangkok and the Central region, especially the nearby provinces such as Samut Prakan, Nakhon Pathom, and Nonthaburi. Combined percentages of two areas reached as high as 71.8% in terms of the number of factories, and 74.9% in terms of the number of employees. Furthermore, in terms of the value added produced by manufacturing factories, concentration of two areas is more prominent, which showed 87.7% in 1980, growing from 77.7% in 1970.

3.17 Allocation of manufacturing factories usually depends on such elements as the access to raw materials, easiness in recruitment of industrial workers, and availability of infrastructure which includes water supply, electricity, the access to the seaports, and the access to the central administrative services. For manufacturing factories excepting rice mills, the last element is to be a crucial one. And this element is exactly the reason why Bangkok and the nearby provinces could always attract the manufacturing factories for the past time.

3.18 But after the latter part of the 1970s, the economic planners in the government began to recognize that one of the important factors causing the widening income disparity between Bangkok and other regions should be attributed to this uneven development of manufacturing among regions. The government thus started a new development strategy which aimed at promoting the growth and the dispersion of modern type of factories to the other regions outside Bangkok.

For instance, the Industrial Estate Authority of Thailand recently planned to construct the regional industrial estates in three regions beside the existing industrial estates all of which exceptionally located in the Greater Bangkok area. These regional industrial estates are Lamphun in the North, Khongkaen in the Northeast, and Nakhonsrithammarat in the South. The Eastern Seaboard project also was designed partially to promote the regional industrial development in the Eastern part of Thailand,

together with promotion of the heavy industry based on the natural resources.

#### 4. Small Scale Industry in Thailand

3.19 Historically, the government of Thailand has paid little attention to the small-scale industry, although it has played a significant role in employment and in production of a certain type of products. But the weighted unemployment problem and the desire of promoting the export-oriented industries unavoidably made the government awake to its importance to the national economy. Thus the government for the first time intended to promote the small-scale industry in manufacturing in the Fifth Economic Development Plan (1982-86).

3.20 In spite of the fact that the significance of the small-scale industry in the Thai economy is widely recognized now, there is no official information about the size distribution of manufacturing factories in the whole country or the time series data about the small-scale industry. Scattered information is found only in the sampled firms surveys conducted by the researchers and institutions such as Saeng Sa-ngwongruang and others (1976 and 1978); the International Development Center of Japan (IDC)(1980); the Small Industry Finance Corp. of Thailand(1984); the World Bank(1982); and the Institute of Developing Economies of Japan (IDE)(1985-).

3.21 According to the summary of the World Bank report, based on the survey by the Labor Department in 1976/77, cottage industry with the number of employees of less than 10 persons accounted for 62.2% (39,925 of the total number of 64,205 establishments), while the small-scale industry with between 10 and 49 persons for 33.1%, the medium-scale industry with between 50 and 299 persons for 4.1%, and the large-scale industry with 300 persons and over for 0.6% respectively. In terms of the number of employees, however, the large-scale industry accounted for 37.9% (421,385 of the total number of 1,112,501 employees), whereas the cottage industry for merely 14.8%, the small-scale industry for 23.4% and the medium-scale industry for 37.9% respectively.

3.22 Latest field survey about the size distribution of manufacturing factories is conducted by the Labor Department of the Ministry of Interior in 1980, which covered Bangkok and the neighboring three provinces. Table 3.8 summarizes the research result of this survey in accordance with the UNIDO's industrial classification. As illustrated in the

table, the size distribution of manufacturing factories in Bangkok shows the similar pattern to that of the survey in 1976/77 conducted in the whole country. The surveyed factories in Bangkok numbered 11,699, which employed totally 213,180 persons. Of them, a larger portion, or 75.8% of the total number of factories belong to the cottage industry. But this group occupied only 15.9% in terms of the number of employees. By contrast, a group of the large-sized industry, which accounted for merely 0.8% of the total number of factories, attracted over 40% of the total number of employees employed in manufacturing in Bangkok.

3.23 Classified by the type of industry, it is found that wearing apparels and metal products are the two largest industries contributing to employment of manufacturing in Bangkok. In addition, in these two industries, both the cottage and the small-scale industries play a significant role in employment as well as in their production. In contrast with these traditional type of industries, more modern type of industries such as chemicals, electrical machinery and textiles (spinning and weaving) attracted much more the large-sized factories.

#### 5. Employment and Wage Structure

3.24 As mentioned in 3.21, available statistics on establishments and employees, classified by type of industries, is a survey by the Labor Department of the Ministry of Interior which was conducted in 1976/77. A result of this survey is summarised in Table 3.9. Since 1979, the second round study on employment started by the same department in the whole country. But unfortunately, research results are not yet published excepting Bangkok and the nearby provinces.

Survey in 1976/77 covered 20,991 establishments (approximately 40% of a total number of the registered factories in the Ministry of Industry), which employed 566,153 persons. Among industries, the largest contributor to employment is textile industry (21.6%), following food products excepting grain milling (18.1%), wood and wood products (8.1%), non-metallic minerals (6.1%), grain milling (5.8%) and wearing apparels (5.8%).

3.25 Regarding time series data about employment classified by industry, the NESDB previously attempted to make a rough estimation as to the 20 industries during 1970-77. But since this estimation has several problems in making statistics, the report omitted it from list of tables.



3.26 Information sources about wages and salaries in manufacturing are only three: the Industrial Census, the I-O tables in the years of 1975 and 1980, and the Bank of Thailand's data on wage rates of unskilled workers. Figures contained in the Industrial Census are omitted here because of the same reasons as remarked in 3.01. So the report provides two major tables as tentative ones to show the outline of wage structure in manufacturing.

3.27 Table 3.10 is made from the I-O tables to present a total amount of wages and salaries in each industry and the ratio of wages to the value added. Industries with high ratio of wages to the value added in 1980 include glass (37.2%), plastic products (34.6%), scientific equipments (34.0%), wearing apparels (32.3%), food processing (32.0%), and so on. On the contrary, petroleum products, tobacco and liquor belong to industries with lower ratio of wages to the value added due partially to the fact that in these products taxes occupy an unproportionate part of the total value added. Concerning distribution of wages and salaries classified by industry, food processing is the largest one, followed by textiles, transport equipments, and wearing apparels. All of these industries belongs to a group of labor-intensive industries, and combined percentages reach as high as 55%.

3.28 Table 3.11 shows the changes in wage rates (daily wages of unskilled workers) in Bangkok between 1978 and 1982. But unfortunately, figures are available in only nine industrial groups. It is impossible to show the changes in wage rates in manufacturing in accordance with the UNIDO's industrial classification. According to the table, the average wage rates of manufacturing in Bangkok increased from 37.6 baht per day in 1978 to 72.38 baht in 1982, or by 1.94 times. In the same period, the minimum wage rate in Bangkok Metropolitan area increased from 35 baht to 66 baht per day.

## 6. Growth of the Manufactured Export

3.29 The growth of the manufactured exports after the 1970s was illustrated briefly in Table 2.4 in the previous chapter. In this section we will examine more elaboratedly the changes in export structure of Thailand, classified by major commodities. Table 3.12 shows the trends of the manufactured goods in comparison with the traditional type of products such as rice and rubber.

3.30 As clearly indicated in the table, four major traditional products (rice, teak, rubber, and tin) have drastically dropped their shares in the total export value, although their export value itself has increased owing to the price increase in international markets. Combined percentage of these four commodities now represents only 25.9% of the total exports, falling from over 70% in 1960. In contrast with the decline of the traditional type of primary commodities, the newly introduced agricultural products such as maize, tapioca, beans, and sugar cane have impressively expanded their shares after the 1960s. Especially in the mid 1970s, the combined shares of these products reached 37.4%, larger than those of the traditional ones.

3.31 So far as exports of the manufactured goods are concerned, three groups of commodities essentially have enjoyed a remarkable growth for the past decade. They are 1) processed and preserved foods in general, and canned seafoods and canned fruits in particular; 2) textiles (yarn and fabric manufactured from both cotton and man-made fibre) and garments; and 3) other products which include jewelry, the integrated circuits (ICs), plastic products, footwear, furniture and leather products. Almost all of these products excepting jewelry and frozen shrimps started or accelerated their exports after the mid 1970s.

3.32 Among the export-oriented industries, textile industry including garment manufacturing has been important, contributing most to growth of the manufactured goods of Thailand during the 1970s. Textile industry started its export since the end of the 1960s. In initial stage of export, cotton yarn and fabric were major commodities, and soon man-made yarn and fabric followed and replaced them in export value. After the latter part of the 1970s, garments, which were exported mainly to the United States and the EEC, and later to the Middle East countries, became the largest item among textile goods, representing around half of the total exported textile goods in terms of value.

3.33 Second significant group is food processing, which consists of various products based on the domestically available raw materials such as shrimps, fishes, cuttle fishes, fruits and poultry. In earlier time, frozen shrimps, exported mostly to Japan, played a crucial role in expanding export of Thai products in foreign market. In the following years, canned pineapples followed them with the assistance of foreign investments. In recent time, frozen chickens exporting to Japan, and canned fishes, especially tuna, exporting to the United States show the prominent growth in their export. But in the case of tuna canning industry, all of the raw materials is imported from the outside. All of

these products substantially shares the common characteristics, namely, exclusively labor-intensive industry with simple technique in processing of their products. Such point as seen in food processing can be partially identified in other export oriented industries of Thailand.

3.34 Another important commodity which quickly increased its exports after the mid 1970s is ICs. In recent five years, its annual export value has constantly amounted to 6 billion baht. But all of the firms manufacturing ICs in Thailand belongs to the foreign owned firms as seen in the National Semiconductor. Furthermore, all of the necessary raw materials is imported from the home country. Consequently, actual contribution of ICs to earnings of foreign currency is by far smaller than the outlook of its export value. Lastly, footwear, plastic products and furniture also are expected to expand their exports in the future.

## 7. Domestic Investments in Manufacturing

3.35 There is no official data on domestic investments in manufacturing. On this account, the report summarises the activities of limited companies and limited partnerships which were newly registered in the Ministry of Commerce during 1978-82 as a tentative indicator showing the current investment pattern in manufacturing of Thailand. Table 3.13, showing the number and the amount of paid-up capital of the newly registered companies in recent five years, gives a different picture on industrial distribution from that of the registered factories illustrated in Table 3.5.

3.36 According to the table, a total number of 5,612 firms were newly registered in the Ministry of Commerce between 1978 and 1982, while 25,638 factories were registered in the Ministry of Industry in the corresponding period (see Table 3.4). This wide gap between two information sources may be attributed partially to the fact that a large number of registered factories did not form limited company or limited partnership in their establishments, and partially to the fact that a part of registered factories were owned and operated by a same company.

3.37 Major fact findings contained in the table is as follows: the portion of the food manufacturing in the number of firms is relatively smaller as compared to that in the registered factories, accounting for 18%, and its share in paid-up capital represented 28%. Excepting the food manufacturing, wearing apparels occupied the largest portion in terms of the number of firms (8.9%), following metal products

(7.5%); wood products (7.2%); other chemical products (5.7%); non-metallic products (5.3%); and electrical machinery (5.0%). On the other hand, in terms of amount of paid-up capital in the registered firms, the largest industrial group excepting food is metal products (7.8%), and then followed by wood products (6.8%); non-metallic products (6.0%); and textiles (6.0%).

## 8. Foreign Investments in Manufacturing

3.38 Foreign capital has played an important role in development of the Thai manufacturing. As commonly observed in other Asian countries, the government of Thailand gave the various privileges to the advanced foreign firms through her industrial promotion policy. Foreign firms, which had previously exported their products, also attempted to shift their production base from the home country to Thailand in order both to overcome the increasing import duties and to protect their established markets in Thailand.

3.39 An active role of foreign capital in growth of manufacturing is found in their investments in the promoted industries, as shown in Table 3.14. Table tells us that in the period between 1960 and 1972, 2,750 million baht out of the total registered capital of 5,450 million baht, or 32%, belong to a group of foreign investors, while the balance to the Thai. Among the foreigners, Japan is the largest capital supplier (38% of total foreign investments), followed by Taiwan (16%); and the United States (14%). Contribution of foreign capital to investments in the promoted industries has steadily decreased during the 1970s, whereas that of local capital increased. But they still provide little less than one-fourth of the total registered capital in recent ten years (1972-82).

3.40 Trends as stated above show only investments in the firms promoted by the government. Table 3.15 provides the whole structure of foreign investments in Thailand, classified by sector and by industry, during the period from 1978 to 1982. As seen in the table, manufacturing attracted the largest portion of total foreign investments into Thailand: 4,185 million baht of the total amount of 14,237 million baht, or 29.4%. Regrettably, it is impossible to reclassify the manufacturing sector in accordance with the UNIDO's measurement because that the Bank of Thailand's information divides manufacturing into only nine groups. However, an outline of industrial distribution of foreign investments can be seen in the table.

3.41 According to the table, around half of investments in manufacturing concentrated in electrical machinery (possibly ICs), and the rest towards chemicals (10.5%), food (9.1%), and machinery and transport equipments (7.4%). Textiles, which had previously attracted a larger portion of foreign investments until the mid 1970s, now reduced its share to merely 2.3% in recent five years.

### 9. Sources of Growth in Manufacturing

3.42 Growth pattern of manufacturing may be depicted according to a simple methodology in which the sources of growth are divided into three effects: domestic demand effect (DE); import substitution effect (IS); and export expansion effect (EX). Defining domestic demand (Dt) as production (Xt) plus import (Mt) minus export (Et), or  $Dt = Xt + Mt - Et$ , and the import share (Ut) as  $Mt/Dt$ , the computation of these three sources of growth over a period of time 0 to t are:

Domestic demand effect, or growth due to the increase in domestic demand,

$$DEt = (1-Ut) \#Dt / \#Xt$$

where # indicates the change in the value of a variable over the period (0,t).

Import substitution effect (ISt), or the growth due to the replacement of imports,

$$ISt = (Uo-Ut) Dt / \#Xt$$

Export expansion effect (EXT), or the growth due to increase of exports,

$$EXT = \#Et / \#Xt$$

3.43 Estimates of the contributions from these three sources are shown in Tables 3.16 and 3.17 for three periods of 1966-72, 1972-75, and 1975-80. Only in the period between 1975 and 1980, manufacturing is divided into the 29 industries in accordance with the UNIDO's measurement by employing the I-O tables.

3.44 As computed in the table, domestic demand was the primary source of growth in manufacturing in the period of 1966-72 and before. Import substitution was also important in principally transport equipments, consumer durables,

machinery and a part of intermediate products. Export effect in this period was relatively small. Overall there was no net import substitution during the period from 1972 to 1975, and even some negative substitution in sectors where demand outpaced the growth of domestic capacity and which increased the import share. In several sectors, exports made an increasing contribution to the growth of output.

3.45 Between 1975 and 1980, export expansion demand has become more important in its direct contribution to growth of manufacturing in Thailand. Among industries, industrial groups whose growth mainly came from export demand are food manufacturing (47.4%), wearing apparels (18.7%), leather products (81.2%), rubber products (70.1%), and electrical machinery (36.2%). In the same period, domestic demand effect also contributed much more to growth of overall manufacturing. But import substitution effect had no meaningful role as compared to the previous periods. Rather in groups of industrial chemicals, iron and steel, and glass products, negative substitution was clearly observed due to rapid increase in domestic demand excessing expansion of domestic production.

3.46 These indicators are not the sophisticated ones to show the dynamic changes taking place in the Thai manufacturing. However, the tables suggest that, through three periods, expansion of domestic demand expressed in income growth has been the major source of growth for manufacturing in Thailand. And import substitution also contributed to its growth during the 1960s, while export demand in the latter part of the 1970s. This point will be examined in detail in the next chapter.

## CHAPTER 4

### MARKET STRUCTURE IN MANUFACTURING

#### 1. Import Substitution in Manufacturing

4.01 Industrial promotion policy which the government adopted since the late 1950s mainly aimed at developing the import substitution industries such as food, textiles, automobiles, electrical machineries, chemicals and so on. Most typical industry which experienced the progress of import substitution is the textile industry.

For instance, in the case of the cotton fabric, the ratio of imports to the total domestic demand was as high as 80% in 1957. But under the government promotion policy to the industry concerned and an active introduction of foreign capital in general and the Japanese capital in particular, the cotton industry of Thailand showed the prominent growth during the 1960s. The ratio of the imported cotton fabric to domestic demand in terms of volume sharply dropped from 59% in 1962 to 9% in 1972. Man-made fabrics, which started its domestic production in the late 1960s, also followed the same progress with the cotton fabrics in the first half of the 1970s. Its import/domestic demand ratio dropped from 96% in 1965 to 12% in 1975.

4.02 Import substitution ratio or ISR said here is defined as the ratio of import value against domestic demand. Table 4.1 indicates these ratios in both years of 1975 and 1980, classified by industrial groups adopted by the UNIDO. Computation was made from the figures contained in the I-O tables. In order to make it easy to understand the degree of progress in import substitution, the report tentatively classifies industries into three groups according to the stage of import substitution as in the following:

- a) industry in which domestic production basically meets domestic demand -----ISR less than 10%
- b) industry which is now under the process of import substitution -----ISR 10% and over, but less than 40%
- c) industry which still must depend a larger portion of domestic demand on the imports -----ISR 40% and over

4.03 In 1975 13 industries belong to a category of a) industry, and no change took place in 1980. Industries belonging to a category of c) industry numbered five in

1975, and four in 1980. In comparing the ratios of ISR in two years, we can discover several noticeable changes in the selected industries. Industries such as cement and petroleum faced increase in their import ratio between two years. This increase should be attributed to the fact that the government strictly restricted the expansion of production capacity, although their domestic demand outpaced their production capacity. In the cases of iron and steel, and industrial chemicals, another factor caused their increase in import ratio during 1975-80. That is, in the process of import substitution of finished goods, expansion of domestic production accompanied increase in import of necessary intermediate and capital goods such as steel products.

4.04 Table 4.2 shows the more detailed information concerning the selected important products. Looking at the table, we can know more clearly the process of import substitution in Thailand during the latter part of the 1970s. Major products which enjoyed the sharp decline in import ratio include drugs and medicines, agricultural machinery, office machinery, radio and TVs, other electrical appliances, and motor vehicles. By contrast, industrial chemicals and industrial machinery quickly increased their import ratio. This implies that the progress of industrialisation of Thailand relatively concentrated in consumers goods even in 1980.

## 2. Export Expansion in Manufacturing

4.05 The largest contributor to exports of the manufactured goods, classified by industry is the food processing industry because that it includes rice milling, tapioca pellets manufacturing, sugar refining and manufacturing of canned seafoods. Rubber products (ISIC 355) and non-ferrous metals, namely smelted tin (ISIC 372) also important exported goods, and their proportion of export to domestic production is very high. Textiles and wearing apparels are growing as export-oriented industries during the 1970s, although their export ratio is fairly low due to their established large-sized domestic market.

4.06 More interesting fact is found in Table 4.2. Major commodities which experienced the quick increase in their exports include canned fruits (export/domestic production ratio increased from 39% in 1975 to 72% in 1980), canned seafoods (from 25% to 52% in the same period), man-made fibre (from 3% to 31%), jewelry (from 24% to 73%), all of these commodities showed high export ratio to their



domestic production. On the contrary, saw milling products, gunny bags, and cement, which had previously been the major exported products from Thailand, now reduced their export ratio due partially to the expansion of domestic demand, and partially to the government policies as seen in saw milling products (the government banned exports of logs to promote the wood processing industry).

### 3. Monopoly and Oligopoly in Manufacturing

4.07 Recent studies (Kroekkiat:1982; Sethasayam:1980; and Suehiro:1985) reveal important characteristics observed in the Thai manufacturing, namely, the existence of oligopolistic market structure in the selected industries. Most of researchers who are interested in industrial development of Thailand had paid little attention to the structure of supplier. Their focus was put on the changes in demand structure in line with income growth. But in the developing countries market control by few big firms or few business groups is widely observed in manufacturing. Monopoly or oligopoly is the significant element characterising the industrial structure of the developing countries.

4.08 To examine monopolistic structure in manufacturing, two indicators are employed here. One is the marketing shares of the selected largest individual firms (top 1, top 2, top 3, and top 5) in either actual production volume or production capacity in each industry. The other one is the marketing shares of the selected groups of companies in production or production capacity.

4.09 The existence of a group of companies is not to be dismissed in examining the oligopoly in the Thai economy. Especially, in such industries as sugar, feed milling and textiles, a large number of firms in actuality belong to not a group of independent firms but a single group of companies in terms of capital ownership. And two or three groups substantially control the domestic market, although their members individually occupies smaller portion in production.

4.10 Typical pattern can be found in the case of sugar industry. In Thailand there are 42 sugar mills in 1979. Of these mills, top three mills occupies merely 16% of the total production of sugar. But out of these 42 mills, 20 mills in fact belong to the three major sugar tycoons: the Thai Roong Ruang group; the Kwang Soon Lee group; and the Mitra-Pol group. Combined production of these sugar mills belonging to the three groups represented over 55% of the

total refined sugar production in the whole country in 1979. As contrary to the observation on the marketing shares of individual firms, the sugar industry is without doubt dominated by few monopoly groups in Thailand.

4.11 Table 4.4 indicates the marketing shares of either the selected firms or groups of companies in major industries. Information contained in the table was obtained mostly from the survey by the Bank of Thailand (Pawa Thurakit lae Utsahakam) and the survey by the Board of Investment (Rai-ngan Pracham Pi). Looking at the tables, we can find the surprising fact that there are few industries in Thailand which are under the free competition. The situation of oligopoly or control of few business groups on manufacturing market is prevalent in Thailand.

4.12 Monopoly structure in manufacturing seems to be a direct product of industrial promotion policy by the government for the past time. For the government policies, which aimed at the quick growth of the selected industries to achieve import substitution, usually worked in favor of the large-sized firms. This incentive policies unintentionally helped the formation of a group of companies in the promoted industries. Promoted big firms which could enjoy tax exemption and tax holidays naturally could expand their economic activities with a more rapid rate than unpromoted firms, most of which belonged to the small-sized firms. Bi-polarisation in development between the large-sized and the small-sized firms thus has progressed in line with industrialisation in Thailand. In addition, introduction of foreign capital in the form of joint-venture system accelerated the quick growth of the selected local business groups. These groups include the Siam Motos group in the auto-industry, the Sukree group and the Saha Union group in the textile industry, and the SPI group in the consumers goods manufacturing industry.

## CHAPTER 5

### PROBLEMS FACING THE THAI ECONOMY

#### 1. Fifth Five Year Economic Development Plan

5.01 The government of Thailand put into effect the Fifth Five Year Plan (1982-86) in October 1982. The plan envisaged a moderate change as to the national economic growth in next five years: 5-6% per annum in terms of the GDP. But so far as industrial development is concerned, the

government planned more ambitious strategy to undertake a new phase of industrialisation.

5.02 As disclosed in the announcement of Prime Minister Prem Tinsulanon in October 1983, the government hopes to switch Thailand to a newly industrialised country (NICs) in the next decade. Major new strategies and projects expressed in the plan are two. They are 1) industrial restructuring policy aiming at the rationalisation of domestic industries; and 2) large-scale industrial project based on the domestic natural resources, especially the natural gas in the Gulf of Thailand.

5.03 Industrial restructuring policy principally purposes to change the present industrial structure supported by the import substitution industries into more effective and competitive one. Policy measures and procedures include:

1) improvement of tariff system from protective one to more rationalised one in which the rate above 60% will be reduced to 60%, and below 10% raised to 10% in stages,

2) promotion of export-oriented industries through tax rebate system; establishment of the Export Service Center (information and administrative services by the government); financial assistance by the governmental organisations such as the Bank of Thailand and the Industrial Finance Corp. of Thailand (IFCT); promotion of local trading companies by the Board of Investment to expand the exports of manufactured goods; and market research for local products in the foreign markets,

3) promotion of the small-scale industry to enhance the international competitiveness and to create a new job opportunities through financial assistance and protective measurements by the government.

5.04 Of them, adjustment of tariff rate is one of major industrial policies in the new plan in the sense that it aims at fundamentally changing the traditional attitude of the government towards manufacturing, from incentive and protective one to more selective and rationalised one. According to the original plan, improvement of tariff rate would be done industry by industry as follows:

1982: motor vehicles and parts; electronic and electrical products,

1983: chemical and plastic products; non-metallic mineral products,

1984: iron and steel; machinery and other equipments,

1985: textiles; paper and paper products,  
1986: leather and rubber products; wood products; and food processing products.

5.05 Large-scale industrial project, namely, the Eastern Seabords Industrial Development Project is another target to be achieved in the new plan. This projects are mainly divided into two areas. One is the industrial estate in the Chonburi province, 70 km east from Bangkok, where export-oriented, and labor-intensive types of industries such as garments, electronics, and footwear will be constructed mainly to promote the growth of the manufactured exports and to absorb the industrial workers in the region outside Bangkok. At the same time, tourist industry like hotel industry in Patthaya beach is expected to provide the large-sized job opportunities.

5.06 The other one is a group of the heavy industry or the pollution industry located in the Rayong Province, further 100 km south from the Chonburi Province. Unlike the Chonburi industrial project, the government planned to construct exclusively the heavy industry consuming the natural gas which was discovered in the Gulf of Thailand in 1973 in order to initiate a new phase of industrialisation of Thailand. These industries include the gas separation plant, the integrated steel complex, the petro-chemical complex, the chemical fertilizers plant, the soda ashes plant, and so on. Total estimated investments costs including investments in infrastructure are reported to amount to around 100,000 million baht, and which are expected to provide job opportunity to some 20,000 persons. It doubtlessly is the largest industrial project that Thailand has ever undertaken for the past time.

5.07 Ambitious strategies set up in the Fifth Five Year Plan, however, have faced various problems. For instances, industrial restructuring policy, especially tariff reform faced the strong opposition from the local manufacturers, and then its procedure is vey much behind time schedule as compared to the original plan. Regarding the Eastern SEabords Industrial Project, although the gas separation plant was completed, major plants , excepting chemical fertilizers plant and petro-chemical complex plant, virtually halted due to the shortage of capital funds and reluctances of foreign investors to some projects.

5.08 In the case of chemical fertilizers, the National Fertilizer Corp. was formed in November 1982 with the registered capital of 200 million baht, 41% of which came from the government. The chemical complex also was planned

to establish with the state participation of 49% in its capital. But these two projects embrace the problem of distribution of their products exceeding the domestic demand. As a consequence, the government now are compelled to scale down the economic size of projects and to slow down the pace of carrying out them. Furthermore, the government in late February 1985 decided to scale down investments in infrastructure projects such as the deep seaports and railway construction with the aim of saving 740 million baht.

## 2. Two Directions of Development Strategies

5.09 There is a basic conflict among the economic planners concerning the desirable direction of the Thai economic development in the future. One group considers the increasing trade imbalance as the most serious problem facing the Thai economy and the obstacle to hinder the further development of the Thai manufacturing. Thus they claim that the government should quickly undertake the industrial restructuring policy to improve the international competitiveness and inefficient operation of domestic manufacturing. They also suggest the government to promote the overall export-oriented industries to solve the deteriorated trade deficits. These views are essentially supported by the staffs of the World Bank.

5.10 The other group emphasises the increasing income disparity between in the rural area and in the urban area rather than the trade problems. Their recommendations are put stress on the measurements to improve the rural poor and the underemployed people in off-farm season. In line with this understanding, they advise the government to undertake the overall rural development projects including the promotion of rural industries to provide off-farm income sources for farmers and to absorb underemployed rural population. In addition, they give a first priority to the agro-industry as an export-oriented industry.

5.11 Two different directions in development strategy are not in contradiction each other. In fact, the government for the past time has managed to harmonise rural development policy with industrial development policy in constructing the national economic plans. But in recent times, budget restraints and expanding trade imbalance make it more and more difficult for the government to undertake the multi-purposed policies. In this sense, it may be said that Thailand is now facing the cross road in seeking for her desirable development strategy.

5.12 When we examine the economic strategy of Thailand, we must take its unique economic structure into consideration. As remarked in Chapter 2, a larger part of population in Thailand still belong to the agricultural sector, which is the crucial point differing from the NICs in the Far East. If the government allocate inproportionally the limited fiscal sources in favor of industrial sector, the Thai economy will unavoidably face some underdevelopment in agricultural sector. And this will in turn limit income growth in rural areas, and in the long run national economy will suffer the stagnation in its growth. Furthermore, the quick industrial promotion at the expense of rural population may lead Thailand an industrialised country suffered from the heavy foreign debt as many Latin American countries have already experienced. In this sense, Thailand is expected to seek for the different development pattern from that of the other Asian countries such as South Korea, Taiwan and Singapore.

Table 1.1 Annual Growth Rate of the GDP: 1961-1981.

(Unit: %)

Sector	First Plan (1961-1966)		Second Plan (1966-1971)		Third Plan (1971-1976)		Fourth Plan (1976-1981)	
	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Agriculture	3.3	4.6	4.3	4.1	5.1	3.9	5.0	3.0
Mining	5.3	10.9	6.6	8.1	6.0	5.5	3.2	11.2
Manufacturing	9.3	10.2	10.9	9.2	8.0	8.6	9.6	9.0
Construction	3.9	12.3	11.4	8.4	6.5	4.0	3.0	11.7
Electricity & Water Supply	16.4	18.2	18.0	20.7	15.0	14.4	11.3	10.9
Communication	9.3	9.0	11.0	7.5	6.0	8.1	7.4	8.7
Banking, Insurance	5.5	16.6	17.0	14.4	15.0	5.1	8.1	14.4
Wholesale & Retail	5.5	8.0	8.4	7.7	7.0	4.8	6.3	6.2
GDP	5.5	7.3	8.3	7.2	7.0	6.2	7.0	7.3

Sources : 1. Yasuda, Yasushi "Economic & Social Development Plan" in Thai-koku Keizai Gaikyo 1982-1983, Japanese Chamber of Commerce, Bangkok, 1983.

2. The National Economic and Social Development Board.

Table 2.1 Growth of the GDP, classified by Sector  
at the 1972 prices: 1960-83

(Units: Million of Baht, ₧)

Sector	1960	1965	1970	1975	1980	1983
Agriculture	28227	35931	48332	62081	72784	80940
	40.2	36.1	32.2	30.5	24.9	23.6
Manufacturing	8389	14249	23320	36787	60597	71947
	12	14.3	15.5	18.1	20.7	21
GDP	70139	99544	150092	203514	292852	342878
	100	100	100	100	100	100

Source: the NESDB

Table 2.2 Annual Growth Rate of the GDP, classified by  
Sector at the 1972 prices: 1960-83

(Unit: %)

Sector	1960-65	1965-70	1970-75	1975-80	1980-83	1980-83
Agriculture	4.94	5.11	5.13	3.23	3.6	4.85
Manufacturing	11.13	10.35	9.55	10.5	5.89	10.39
GDP	7.25	8.55	6.23	7.55	5.4	7.41

Source: the NESDB



Table 2.3 Labor Force Employed by Sector and Contribution to the Growth of Labor Force between 1970 and 1980 by Sector: 1960-80

(Units: thousand persons, %)

Industry Group	1960	1970	1975	1980	1970-80 (%)	
Agriculture, Forestry (%)	11332	13202	13270	15943	2741	46.7
Mining, Quarrying (%)	30	87	28	37	-50	-0.9
Manufacturing (%)	470	683	1356	1789	1106	18.8
Construction (%)	69	181	206	436	255	4.3
Electricity, Gas, Water	16	25	41	60	35	0.6
Commerce	779	876	1371	1916	1040	17.7
Transport, Storage	166	268	381	456	188	3.2
Services	654	1184	1522	1887	703	12
Banks, Insurance					0	0
Others, Unknown					0	0
<b>Total</b>	<b>13750</b>	<b>16652</b>	<b>18182</b>	<b>22524</b>	<b>5872</b>	<b>100</b>

Sources: 1960, 1970: NSO, Labor Force Survey

1975, 1980: UN, Statistical Yearbook for Asia and the Pacific

Table 2.4 Changes in Imports, classified by  
Commodities: 1960-80

(Unit: %)

Year	Food	Consumers* goods	Intermediate goods for consumers	Intermediate goods for capital goods	Capital goods
1960	8.2	31.0	12.1	11.1	37.6
1965	5.5	25.8	18.2	7.4	43.1
1970	4.0	18.8	23.0	7.8	46.3
1975	3.0	11.7	36.7	8.8	40.0
1980	3.3	13.6	45.4	9.6	28.1

Sources: U.N., ESCAP, Statistical Yearbook for Asia and the Pacific, various years; the Bank of Thailand, Quarterly Bulletin

Table 2.5 Exports of the Manufactured Goods in Thailand:  
1965-80

(Units: Million of Baht, ₧)

SITC	1965	1970	1975	1978	1980
SITC 5	15	33	243	444	938
SITC 6	599	2188	6419	17479	29474
SITC 7	9	15	573	2719	7618
SITC 8	28	59	1582	4213	8467
SITC 5-8	651	2295	8817	24855	46495
(%)	(5)	(15.5)	(19.6)	(29.9)	(34.9)
SITC 68 (Tin)	399	1618	2285	7363	11347
SITC 5-8 less 68	252	677	6532	17492	35148
(%)	(1.9)	(4.6)	(14.5)	(21.1)	(26.4)
Total Export	12938	14772	45007	83065	133197
	100	100	100	100	100

Source: Computed from UN, Statistical Yearbook for Asia and the Pacific, various issues

Table 2.6 Industrial Sector in the Thai Economy  
(1960, 1972, and 1980)

Items	1960	1972	1980
Population (million persons)	25.6	38.4	47.0
GNP per capita (baht, current prices)	2,056	4,257	14,475
GDP (B million current prices)	55,816	164,626	684,930
GDP (B million, 1972 prices)	70,139	164,626	292,852
Gross fixed capital formation (% of GDP)	14.9	21.0	24.4
Agriculture value added (% of GDP)	40.2	30.3	24.9
Manufacturing value added (% of GDP)	12.0	17.0	20.7
Imports as % of GDP	17.2	18.8	28.2
Manufactured imports as % of total imports	74.6	74.2	72.3
Exports as % of GDP	15.4	13.7 19.5	19.5
Manufactured exports by SITC (% of exports)	1.4	10.1	26.4
Manufactured exports by I-O code	n.a.	28.0	45.9
Manufacturing employment (% of total employment)	3.4	7.7	7.9.9
Share of manufacturing output in the Central region	73.2	73.9	87.7

# SECTION 1

Table 3.1 Estimated Value Added and Gross Output of Manufacturing in Thailand: 1970-

	Industries		1970	1971	1972	1973	1974	
311	Food Manufacturing	VA	9184	9737	9276	12292	19427	23
		VA/GOP	0.2637	0.2637	0.2637	0.2637	0.2637	0.2
		GOP	34827	36925	35176	46614	73671	87
313	Beverages	VA	2909	2852	3258	4104	5637	5
		VA/GOP	0.6763	0.6763	0.6763	0.6763	0.6763	0.6
		GOP	4301	4217	4817	6068	8335	8
314	Tobacco	VA	1836	2260	2430	2706	3410	3
		VA/GOP	0.4718	0.4718	0.4718	0.4718	0.4718	0.4
		GOP	3891	4790	5150	5735	7228	8
321	Textiles	VA	3017	4005	6000	7187	9109	8
		VA/GOP	0.3333	0.3333	0.3333	0.3333	0.3333	0.3
		GOP	9052	12286	18002	21563	27330	25
322	Wearing Apparel	VA	811	1161	1264	1732	2461	2
		VA/GOP	0.3408	0.3408	0.3408	0.3408	0.3408	0.3
		GOP	2380	3407	3709	5082	7221	8
323	Leather	VA	136	192	217	262	309	0.3
		VA/GOP	0.3656	0.3656	0.3656	0.3656	0.3656	0.3
		GOP	372	525	594	717	845	1
324	Footwear	VA						
		VA/GOP						
		GOP						
331	Wood and Cork	VA	1020	1094	1246	1634	2589	2
		VA/GOP	0.4151	0.4151	0.4151	0.4151	0.4151	0.4
		GOP	2457	2636	3002	3936	6237	5
332	Furniture	VA	595	554	568	701	974	1
		VA/GOP	0.3901	0.3901	0.3901	0.3901	0.3901	0.3
		GOP	1525	1420	1459	1797	2497	2
341	Paper and Pulp	VA	711	861	1603	949	1940	1
		VA/GOP	0.3761	0.3761	0.3761	0.3761	0.3761	0.3
		GOP	1890	2289	2667	2523	5158	4

# SECTION 2

Output of Manufacturing in Thailand: 1970-82

	1972	1973	1974	1975	1976	1977	1978	1979	1980
7	9276	12292	19427	23018	25964	27714	28381	29716	36092
7	0.2637	0.2637	0.2637	0.2637	0.2637	0.2637	0.2637	0.242	0.242
5	35176	46614	73671	87289	98460	105097	107626	122793	149140
2	3258	4104	5637	5637	6005	8410	10147	12120	14290
3	0.6763	0.6763	0.6763	0.6763	0.6763	0.6763	0.6763	0.6712	0.6712
7	4817	6068	8335	8335	10210	12435	15004	18057	21290
0	2430	2706	3410	3785	4455	5299	5541	6503	7392
8	0.4718	0.4718	0.4718	0.4718	0.4718	0.4718	0.4718	0.4773	0.4773
0	5150	735	7228	8022	9443	11231	11744	13625	15487
5	6000	7187	9109	8357	9368	11432	13605	17165	20896
3	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3229	0.3229
6	18002	21563	27330	25074	28197	34299	40811	53159	64714
1	1264	1732	2461	2961	3615	4270	5774	7755	10017
8	0.3408	0.3408	0.3408	0.3408	0.3408	0.3408	0.3408	0.2968	0.2968
7	3709	5082	7221	8688	10007	12529	16942	25954	33524
2	217	262	309	370	276	268	309	397	482
6	0.3656	0.3656	0.3656	0.3656	0.3656	0.3656	0.3656	0.3661	0.3661
5	594	717	845	1012	755	733	1091	1084	1317
				460					1984
4	1246	1634	2589	2447	2846	3039	3305	4561	5474
1	0.4151	0.4151	0.4151	0.4151	0.4151	0.4151	0.4151	0.515	0.515
6	3002	3936	6237	5895	6850	7321	8100	8856	10629
4	568	701	974	1059	1125	1483	1610	2092	2323
1	0.3901	0.3901	0.3901	0.3901	0.3901	0.3901	0.3901	0.378	0.378
0	1450	1797	2497	2715	2884	3802	4127	5534	6146
1	1003	949	1940	1577	2102	3048	4148	5557	7302
1	0.3761	0.3761	0.3761	0.3761	0.3761	0.3761	0.3761	0.3628	0.3628
0	2667	2523	5158	4193	5589	8104	11029	15317	20127

# SECTION 3

iland: 1970-82

1974	1975	1976	1977	1978	1979	1980	1981	1982
19427	23018	25004	27714	28381	29716	36092	45276	43844
.2637	0.2637	0.2637	0.2637	0.2637	0.242	0.242	0.242	0.242
73671	87289	98430	105007	107026	122793	149140	187091	181174
5637	5637	6065	8410	10147	12126	14290	14019	17866
.6763	0.6763	0.6763	0.6763	0.6763	0.6712	0.6712	0.6712	0.6712
8335	8335	10210	12435	15004	18057	21290	20886	26618
3410	3785	4455	5290	5541	6503	7392	9269	9460
.4718	0.4718	0.4718	0.4718	0.4718	0.4773	0.4773	0.4773	0.4773
7228	8022	9443	11231	11744	13625	15487	19420	19820
9109	8357	9368	11432	13605	17165	20896	22907	22645
.3333	0.3333	0.3333	0.3333	0.3333	0.3229	0.3229	0.3229	0.3229
27330	25074	28197	31299	40819	53159	64714	70941	70130
2461	2961	3615	4270	5774	7755	10017	12330	13920
.3408	0.3408	0.3408	0.3408	0.3408	0.2988	0.2988	0.2988	0.2988
7221	8688	10607	12529	16942	25954	33524	41265	46586
309	370	276	268	309	397	482	548	646
.3656	0.3656	0.3656	0.3656	0.3656	0.3661	0.3661	0.3661	0.3661
845	1012	755	733	1091	1084	1317	1497	1765
	460					1084		
2589	2447	2840	3039	3305	4561	5474	5922	4944
.4151	0.4151	0.4151	0.4151	0.4151	0.515	0.515	0.515	0.515
6237	5895	6850	7321	8106	8856	10629	11499	9600
974	1059	1125	1483	1610	2092	2323	2834	2928
.3901	0.3901	0.3901	0.3901	0.3901	0.378	0.378	0.378	0.378
2497	2715	2884	3802	4127	5534	6146	7497	7746
1940	1577	2102	3048	4148	5557	7302	8314	8648
.3761	0.3761	0.3761	0.3761	0.3761	0.3628	0.3628	0.3628	0.3628
5158	4193	5580	8104	11029	15317	20127	22916	23837

# SECTION 1

Table 3.1 (continued) Estimated Value Added and Gross Output of Manufacturing: 19

Code	Industries	Item	1970	1971	1972	1973	1974
342	Printing	VA	302	340	394	524	798
		VA/GOP	0.388	0.388	0.388	0.388	0.388
		GOP	778	876	1015	1351	2057
351	Industrial Chemical	VA	576	611	670	770	901
		VA/GOP	0.3363	0.3363	0.3363	0.3363	0.3363
		GOP	1713	1817	1992	2290	2679
352	Other Chemicals	VA	1301	1379	1512	1739	2033
		VA/GOP	0.3802	0.3802	0.3802	0.3802	0.3802
		GOP	3422	3627	3977	4574	5347
353	Petroleum	VA	1282	1688	1899	2345	3337
		VA/GOP	0.2409	0.2409	0.2409	0.2409	0.2409
		GOP	5322	7007	7883	9734	13852
354	Other Petroleum	VA	79	104	117	145	206
		VA/GOP	0.3925	0.3925	0.3925	0.3925	0.3925
		GOP	201	265	298	369	525
355	Rubber Products	VA	721	966	1096	1293	1982
		VA/GOP	0.3805	0.3805	0.3805	0.3805	0.3805
		GOP	1895	2530	2880	3398	5209
356	Plastic	VA					
		VA/GOP					
		GOP					
361	Pottery, Ceramics	VA	113	119	126	156	189
		VA/GOP	0.5262	0.5262	0.5262	0.5262	0.5262
		GOP	215	226	239	296	359
362	Glass, Glass Products	VA	329	345	365	453	548
		VA/GOP	0.4508	0.4508	0.4508	0.4508	0.4508
		GOP	730	765	810	1005	1216
369	Non-Metallic Product	VA	719	755	799	991	1199
		VA/GOP	0.3658	0.3658	0.3658	0.3658	0.3658
		GOP	1960	2064	2184	2709	3278



# SECTION 2

and Gross Output of Manufacturing: 1970-82

1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
340	394	524	798	826	865	862	1029	1374	1640
0.388	0.388	0.388	0.388	0.388	0.388	0.388	0.388	0.4343	0.4343
876	1015	1351	2057	2129	2220	2222	2652	3164	3776
611	670	770	901	1115	1278	1651	1958	2622	3504
0.3363	0.3363	0.3363	0.3363	0.3363	0.3363	0.3363	0.3363	0.3371	0.3371
1817	1902	2290	2679	3315	3800	4909	5822	7778	10395
1370	1512	1739	2033	2516	2883	3726	4418	5918	7098
0.3802	0.3802	0.3802	0.3802	0.3802	0.3802	0.3802	0.3802	0.4159	0.4159
3627	3977	4574	5347	6618	7583	9800	11020	14229	17067
1688	1890	2345	3337	3908	4174	4811	5948	9113	11486
0.2409	0.2409	0.2409	0.2409	0.2409	0.2409	0.2409	0.2409	0.2309	0.2309
7007	7883	9734	13852	16222	17327	19971	24091	39467	49744
104	117	145	206	241	257	297	367	562	708
0.3925	0.3925	0.3925	0.3925	0.3925	0.3925	0.3925	0.3925	0.4224	0.4224
265	298	369	525	614	655	757	935	1330	1676
966	1096	1293	1982	2289	3024	3896	4457	5615	6160
0.3805	0.3805	0.3805	0.3805	0.3805	0.3805	0.3805	0.3805	0.3131	0.3131
2530	2880	3398	5209	6016	7947	10239	11714	17934	19674
				1281					2214
110	126	156	189	221	271	373	462	560	682
0.5262	0.5262	0.5262	0.5262	0.5262	0.5262	0.5262	0.5262	0.5265	0.5265
226	239	296	359	420	515	709	878	1064	1295
345	365	453	548	642	788	1083	1341	1627	1982
0.4508	0.4508	0.4508	0.4508	0.4508	0.4508	0.4508	0.4508	0.4612	0.4612
765	810	1005	1216	1424	1748	2402	2975	3528	4297
755	799	991	1199	1404	1724	2369	2933	3559	4336
0.3658	0.3658	0.3658	0.3658	0.3658	0.3658	0.3658	0.3658	0.3318	0.3318
2064	2184	2709	3278	3838	4713	6170	8018	10726	13068

# SECTION 3

ng: 1970-82

1974	1975	1976	1977	1978	1979	1980	1981	1982
798	826	805	802	1029	1374	1640	2089	2217
0.388	0.388	0.388	0.388	0.388	0.4343	0.4343	0.4343	0.4343
2057	2129	2220	2222	2652	3164	3776	4810	5105
901	1115	1278	1651	1958	2622	3504	4197	4631
3363	0.3363	0.3363	0.3363	0.3363	0.3371	0.3371	0.3371	0.3371
2679	3315	3800	4909	5822	7778	10395	12450	13738
2033	2516	2883	3726	4418	5918	7098	9470	10449
3802	0.3802	0.3802	0.3802	0.3802	0.4159	0.4159	0.4159	0.4159
5347	6618	7583	9800	11020	14229	17067	22770	25124
3337	3908	4174	4811	5948	9113	11486	13862	12493
2409	0.2409	0.2409	0.2409	0.2409	0.2309	0.2309	0.2309	0.2309
13852	16222	17327	19971	24691	39467	49744	60035	54106
206	241	257	207	307	562	708	855	770
0.3925	0.3925	0.3925	0.3925	0.3925	0.4224	0.4224	0.4224	0.4224
525	614	655	757	935	1330	1676	2024	1823
1982	2289	3024	3896	4457	5615	6160	6279	5972
0.3805	0.3805	0.3805	0.3805	0.3805	0.3131	0.3131	0.3131	0.3131
5209	6016	7947	10239	11714	17934	19674	20054	19074
	1281					2214		
189	221	271	373	402	560	682	796	899
0.5262	0.5262	0.5262	0.5262	0.5262	0.5265	0.5265	0.5265	0.5265
359	420	515	709	878	1064	1295	1512	1708
548	642	788	1083	1341	1627	1982	2311	2611
0.4508	0.4508	0.4508	0.4508	0.4508	0.4612	0.4612	0.4612	0.4612
1216	1424	1748	2402	2975	3528	4297	5011	5661
1199	1404	1724	2369	2933	3559	4336	5054	5710
0.3658	0.3658	0.3658	0.3658	0.3658	0.3318	0.3318	0.3318	0.3318
3278	3838	4713	6170	8018	10726	13068	15232	17209

# SECTION 1

Table 3.1 (continued) Estimated Value Added and Gross Output of Manufacturing:

Code	Industries	Item	1970	1971	1972	1973	1974
371	Iron and Steel	VA	601	710	944	1635	2552
		VA/GOP	0.3236	0.3236	0.3236	0.3236	0.3236
		GOP	1857	2194	2917	5053	7886
372	Non-Ferrous Metal	VA	265	314	417	722	1127
		VA/GOP	0.2235	0.2235	0.2235	0.2235	0.2235
		GOP	1186	1405	1866	3230	5043
381	Metal Products	VA	801	1056	1278	1923	1936
		VA/GOP	0.3507	0.3507	0.3507	0.3507	0.3507
		GOP	2541	3011	3644	5483	5520
382	Machinery	VA	889	1016	1160	1463	1779
		VA/GOP	0.3366	0.3366	0.3366	0.3366	0.3366
		GOP	2641	3018	3446	4346	5285
383	Electrical Machinery	VA	651	703	831	987	1483
		VA/GOP	0.3285	0.3285	0.3285	0.3285	0.3285
		GOP	1982	2140	2530	3005	4514
384	Transport Equipments	VA	1281		1640	2603	3947
		VA/GOP	0.2770	0.2770	0.2770	0.2770	0.2770
		GOP	4610	0	5901	9601	14203
385	Scientific Equipments	VA	62	67	60	80	105
		VA/GOP	0.3205	0.3205	0.3205	0.3205	0.3205
		GOP	193	209	215	278	328
390	Other Mfg Products	VA	1249	1357	1394	1704	2137
		VA/GOP	0.5638	0.5638	0.5638	0.5638	0.5638
		GOP	2215	2407	2473	3182	3790

# SECTION 2

and Gross Output of Manufacturing: 1970-82

1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
710	944	1635	2552	2102	2680	3435	4341	5858	6396
236	0.3236	0.3236	0.3236	0.3236	0.3236	0.3236	0.3236	0.2734	0.2734
194	2917	5053	7886	6496	8300	10615	13415	21426	23394
314	417	722	1127	928	1186	1516	1916	2586	2824
235	0.2235	0.2235	0.2235	0.2235	0.2235	0.2235	0.2235	0.1519	0.1519
405	1866	3230	5043	4152	5306	6783	8573	17024	18591
056	1278	1923	1936	1477	1758	2270	3523	3775	4709
507	0.3507	0.3507	0.3507	0.3507	0.3507	0.3507	0.3507	0.3634	0.3634
011	3644	5483	5520	4212	5013	6498	10046	10388	12958
016	1160	1463	1779	1629	2111	2281	2430	2841	3245
366	0.3366	0.3366	0.3366	0.3366	0.3366	0.3366	0.3366	0.326	0.326
018	3446	4346	5285	4840	6272	6777	7219	8715	9954
703	831	987	1483	1404	2418	3140	4263	5290	6538
285	0.3285	0.3285	0.3285	0.3285	0.3285	0.3285	0.3285	0.3196	0.3196
140	2530	3005	4514	4274	7301	9586	12077	16552	20457
	1640	2693	3947	4386	5232	6851	9640	10030	13540
770	0.2779	0.2779	0.2779	0.2779	0.2779	0.2779	0.2779	0.3163	0.3163
0	5001	9691	14203	15783	18827	24653	34089	34556	42807
67	69	89	105	141	183	197	250	309	417
205	0.3205	0.3205	0.3205	0.3205	0.3205	0.3205	0.3205	0.3186	0.3186
200	215	278	328	440	571	615	780	970	1309
357	1394	1704	2137	2857	3717	3983	5063	6263	8442
538	0.5638	0.5638	0.5638	0.5638	0.5638	0.5638	0.5638	0.4958	0.4958
407	2473	3182	3790	5067	6593	7065	8980	12632	17027

# SECTION 3

aring: 1970-82

1974	1975	1976	1977	1978	1979	1980	1981	1982
2552	2102	2688	3435	4341	5858	6396	5673	4910
0.3236	0.3236	0.3236	0.3236	0.3236	0.2734	0.2734	0.2734	0.2734
7886	6496	8300	10615	13415	21426	23394	20750	17959
1127	928	1186	1516	1916	2586	2824	2505	2168
0.2235	0.2235	0.2235	0.2235	0.2235	0.1519	0.1519	0.1519	0.1519
5043	4152	5396	6783	8573	17024	18591	16491	14273
1936	1477	1758	2270	3523	3775	4709	4645	4670
0.3507	0.3507	0.3507	0.3507	0.3507	0.3634	0.3634	0.3634	0.3634
5520	4212	5013	6498	10046	10388	12958	12782	12851
1779	1629	2111	2281	2430	2841	3245	3900	4672
0.3366	0.3366	0.3366	0.3366	0.3366	0.326	0.326	0.326	0.326
5285	4840	6272	6777	7219	8715	9954	11963	14331
1483	1404	2418	3140	4263	5290	6538	7730	6773
0.3285	0.3285	0.3285	0.3285	0.3285	0.3196	0.3196	0.3196	0.3196
4514	4274	7301	9586	12977	16552	20457	24186	21192
3947	4386	5232	6851	9640	10930	13540	16899	17645
0.2779	0.2779	0.2779	0.2779	0.2779	0.3163	0.3163	0.3163	0.3163
14203	15783	18827	24653	34089	34556	42807	53427	55786
105	141	183	197	250	309	417	568	729
0.3205	0.3205	0.3205	0.3205	0.3205	0.3186	0.3186	0.3186	0.3186
328	440	571	615	780	970	1309	1783	2288
2137	2857	3717	3983	5063	6263	8442	11508	14762
0.5638	0.5638	0.5638	0.5638	0.5638	0.4958	0.4958	0.4958	0.4958
3790	5067	8503	7065	8980	12632	17027	23211	29774

(Notes) Value added of manufacturing sectors is estimated from Thailand national accounts statistics and input-output tables of several years. Since the figure in the national accounts statistics is different from the input-output table, some adjustment is needed not only for the year when the input-output table was constructed but also for the years when the input-output was not constructed. In Thailand, the input-output table was constructed for 1975 and this table is comprehensive one to grasp the whole economy of Thailand. During the estimation period, the input-output project team gathered and examined various statistical materials and supplement information concerning the outputs and inputs. Those data were evaluated from various points such as supply and demand, production technology, yield ratio, imports and exports, and so on. Therefore, the figure in the table must be more reliable than the national accounts data. Especially, since gross outputs were estimated in this manner, it is adequate to convince the input-output table for 1975 and 1980. From National Accounts Division of NESDB, both data, the input-output data and the national accounts data are available. The estimated value added and gross output of manufacturing sectors were derived from both data.

The estimation was made through the following procedures;

- (1) Firstly, gross outputs and value added of 1975 were fixed based on the 1975 input-output table.
- (2) Discrepancy ratios of the national accounts data from the input-output data were calculated.

- (3) Then, the value added based on the national accounts were adjusted by using the discrepancy ratios obtained in (2).
- (4) Gross outputs were estimated from the adjusted value added and value added ratios which are calculated from the input-output table.

In this estimation, there are weak points such that the value added ratio from 1970 to 1978 were fixed based on the 1975 input-output table. However, there is no reliable data to take place of that method at the present stage. Nevertheless to say, more careful check should be done for the estimation.

Table 3.2 Estimated Annual Growth Rates of  
Manufacturing Value Added and Growth Output  
during 1970-80

(Unit: %)

ISIC Industries	Value Added	Gross Output
311 Food Manufacturing	14.67	15.7
313 Beverages	17.25	17.3
314 Tobacco	14.94	14.8
321 Textiles	21.35	21.7
322 Wearing Apparels	28.58	30.3
323 Leather	13.49	13.5
324 Footwear	11.72	
331 Wood and Cork	18.3	15.8
332 Furniture	14.59	15
341 Paper and Pulp	25.23	23.7
342 Printing, Publishing	18.44	17.1
351 Industrial Chemical	19.79	19.3
352 Other Chemical	18.49	17.4
353 Petroleum	24.52	25
354 Other Petroleum	24.52	23.6
355 Rubber Products	23.93	25.4
356 Plastic Products	7.21	
361 Pottery, Ceramics	19.69	19.7
362 Glass Products	19.67	19.4
369 Non-metallic Product	19.63	20.9
371 Iron and Steel	23.53	23.3
372 Non-Ferrous Metal	25.7	31.7
381 Metal Products	18.12	17.7
382 Machinery	13.32	14.2
383 Electrical Machinery	25.93	26.3
384 Transport Equipments	23.59	23
385 Scientific Equipment	21	21.1
390 Other Manufacturing	21.03	22.3
<b>Total</b>	<b>19.21</b>	

Source: Estimation of the IDE



Table 3.3 Value Added Composition of Manufacturing and Its Contribution to the Growth during 1970-80, classified by Industry

(Units: Million of Baht, %)

IC Industries	1970	(%)	1980	(%)	1970-80	(%)
11 Food Manufacturing	9184	27.84	36092	18.87	26908	17
13 Beverages	2909	8.82	14290	7.47	11381	7.19
14 Tobacco	1836	5.56	7392	3.86	5556	3.51
21 Textiles	3017	9.14	20896	10.92	17879	11.3
22 Wearing Apparels	811	2.46	10017	5.24	9206	5.82
23 Leather	136	0.41	482	0.25	346	0.22
24 Footwear	353	1.09	1084	0.57	726	0.46
31 Wood and Cork	1020	3.09	5474	2.86	4454	2.81
32 Furniture	595	1.8	2323	1.21	1728	1.09
41 Paper and Pulp	711	2.16	7302	3.82	6591	4.16
42 Printing, Publishing	302	0.92	1640	0.86	1338	0.85
51 Industrial Chemical	576	1.75	3504	1.83	2928	1.85
52 Other Chemical	1301	3.94	7098	3.71	5797	3.66
53 Petroleum	1282	3.89	11486	6.01	10204	6.45
54 Other Petroleum	79	0.24	708	0.37	629	0.4
55 Rubber Products	721	2.19	6160	3.22	5439	3.44
56 Plastic Products	1104	3.35	2214	1.16	1110	0.7
61 Pottery, Ceramics	113	0.34	682	0.36	569	0.36
62 Glass Products	329	1	1982	1.04	1653	1.04
69 Non-metallic Product	719	2.18	4336	2.27	3617	2.29
71 Iron and Steel	601	1.82	6396	3.34	5795	3.68
72 Non-Ferrous Metal	265	0.8	2824	1.48	2559	1.62
81 Metal Products	891	2.7	4709	2.48	3818	2.41
82 Machinery	889	2.69	3245	1.7	2356	1.49
83 Electrical Machinery	651	1.97	6538	3.42	5387	3.72
84 Transport Equipments	1231	3.38	12540	7.08	12259	7.78
85 Scientific Equipment	62	0.19	417	0.22	355	0.22
90 Other Manufacturing	1249	3.79	8442	4.41	7193	4.54
<b>Total</b>	<b>32992</b>	<b>100</b>	<b>191273</b>	<b>100</b>	<b>158281</b>	<b>100</b>

Source: Estimation of the IDE

Table 3.4 Changes in the Number of the Registered  
Factories: 1972-82

(Unit: Nos. of Factory)

Year	Except Rice Mills	Rice Mills	Total
1972	12170	21066	33236
1973	14286	21758	36044
1974	16395	23083	39478
1975	18389	25868	44257
1976	20767	28424	49191
1977	23623	30410	54033
1978	27211	33166	60377
1979	31524	36212	67736
1980	35423	38802	74225
1981	38754	41436	80190
1982	41990	44025	86015

Source: Computed from the factory file compiled by the  
Factory Control Division, the Ministry of Industry

Table 3.5a Distribution of the Registered Factories, classified by Region and by Industry; 1978

1978

Type of Industry	Bangkok	Central	Eastern	Northern	N-Eastern	Southern	Total	(%)
Food(1)	780	4100	2425	8110	18000	4580	38022	63.4
Food(2)	207	330	103	133	84	100	1122	1.9
Beverage	27	17	6	14	11	10	84	0.1
Tobacco	12	2	0	100	8	0	131	0.2
Textile	502	435	10	10	30	15	1062	1.8
Wearing Apparel	310	22	0	2	1	0	341	0.6
Leather	38	97	0	0	0	1	136	0.2
Footwear	83	1	0	0	0	0	84	0.1
Wood	947	650	210	400	218	280	2720	4.5
Furniture	298	50	14	80	57	01	578	1
Paper	208	43	0	1	0	0	252	0.4
Printing	1342	72	12	41	20	48	1541	2.6
Industrial Chemical	40	00	2	3	0	0	111	0.2
Other Chemical	539	127	8	43	29	14	760	1.3
Petroleum	1	0	2	1	0	0	4	0
Other Petroleum	13	0	1	0	0	0	20	0
Rubber Products	290	105	18	20	25	102	566	0.9
Plastic	820	78	7	2	1	0	914	1.5
Ceramics, Pottery	12	74	17	54	4	0	170	0.3
Glass	31	12	0	0	1	0	44	0.1
Cement, Stone	140	602	123	134	142	197	1338	2.2
Iron and Steel	60	85	0	4	5	0	160	0.3
Non-Ferrous Metal	189	34	1	18	1	3	246	0.4
Metal Products	2374	270	30	52	00	03	2891	4.8
Machinery	1377	695	239	240	320	382	3259	5.4
Electricals	383	78	4	0	11	8	493	0.8
Transport	744	325	50	37	73	01	1296	2.2
Scientific	40	12	0	0	0	0	58	0.1
Others	423	84	20	08	25	34	654	1.1
Repair Shops	427	142	42	102	115	00	918	1.5
Grand Total	12801	8044	3358	0711	10259	0202	59975	100
	21.3	14.4	5.0	10.2	32.1	10.3	100	
Total(Original)	12954	8044	3300	0707	10427	0202	60384	

Source: Computed from the Factory File compiled by the Factory Control Division, the Ministry of Industry

Table 3.5b Distribution of the Registered Factorien, classified by Region and by Industry: 19

1980

Type of Industry	Bangkok	Central	Eastern	Northern	N-Eastern	Southern	Total	
Food(1)	864	4714	2736	9636	22600	4793	45343	8
Food(2)	287	370	133	154	107	236	1287	
Beverage	39	20	10	24	10	12	124	
Tobacco	70	3	0	120	8	0	141	
Textile	617	481	14	12	40	17	1181	
Wearing Apparel	647	32	0	5	1	0	685	
Shoes	81	90	0	0	0	0	180	
Leather	117	0	1	0	0	0	124	
Furniture	1032	782	277	466	267	375	3189	4
Paper	433	94	31	122	133	100	913	1
Printing	270	52	0	3	1	3	329	0
Industrial Chemical	1532	77	0	40	30	40	1737	2
Organic Chemical	44	85	2	6	0	0	137	0
Petroleum	550	155	10	53	30	14	812	1
Other Petroleum	1	0	2	1	0	0	4	
Rubber Products	14	7	1	0	0	0	22	
Plastics	315	127	22	23	31	120	647	0
Ceramics, Pottery	1060	120	0	5	7	0	1207	1
Glass	14	82	21	73	5	13	208	0
Cement, Stone	33	14	0	0	1	0	48	0
Iron and Steel	179	751	144	226	248	346	1894	2
Non-Ferrous Metal	83	104	0	4	7	0	187	0
Metal Products	190	41	2	19	2	4	258	0
Machinery	3088	379	45	108	102	140	3842	5
Electricals	1703	902	324	437	501	600	4527	6
Transport	519	112	6	12	28	13	690	0
Scientific	950	432	82	70	143	99	1782	2
Others	55	15	0	0	0	0	70	0
Repair Shops	507	102	23	72	35	44	783	1
Grand Total	607	241	73	184	233	157	1495	
	801	10450	3977	11871	24579	7150	73848	10
	4	14.2	5.4	16.1	33.3	9.7	100	
Total (Original)	982	10462	3981	11888	24769	7163	74225	

Tab 3.5c Distribution of the Registered Factories, classified by Region and by Industry: 1982

1982

Type of Industry	Bangkok	Central	Eastern	Northern	II-Eastern	Southern	Total	
Food(1)	979	5215	2873	10071	20252	4988	50958	59.8
Food(2)	313	444	103	100	140	255	1487	1.7
Beverage	48	34	11	30	23	17	163	0.2
Tobacco	11	4	0	145	0	0	160	0.2
Textile	766	530	10	12	54	19	1400	1.6
Wearing Apparel	1150	40	1	8	2	0	1201	1.4
Leather	103	102	0	0	0	0	205	0.3
Footwear	171	8	1	0	0	0	180	0.2
Wood	1150	888	311	403	287	434	3563	4.2
Furniture	567	120	37	148	188	130	1196	1.4
Paper	334	58	0	4	3	3	402	0.5
Printing	1769	80	9	41	30	52	1981	2.3
Industrial Chemical	51	90	2	7	0	1	160	0.2
Other Chemical	588	180	9	65	32	15	889	1
Petroleum	1	0	2	1	0	0	4	0
Other Petroleum	14	8	1	0	0	0	23	0
Rubber Products	335	149	27	25	39	148	723	0.8
Plastic	1295	160	11	6	14	10	1496	1.8
Ceramics, Pottery	15	102	20	80	9	18	256	0.3
Glass	35	15	1	0	1	0	52	0.1
Cement, Stone	208	108	109	311	400	411	2307	2.8
Iron and Steel	67	108	0	3	7	11	196	0.2
Non-Ferrous Metal	203	50	2	20	3	4	282	0.3
Metal Products	3774	514	59	130	102	172	4811	5.6
Machinery	1924	1170	390	575	629	665	5353	6.3
Electricals	621	138	9	14	36	14	832	1
Transport	1116	532	105	125	218	122	2218	2.6
Scientific	68	16	0	0	0	0	84	0.1
Other	216	133	27	81	49	54	500	0.7
Repair Shops	788	337	102	231	315	195	1908	2.3
<b>Grand Total</b>	<b>18680</b>	<b>12177</b>	<b>4364</b>	<b>13398</b>	<b>28008</b>	<b>7718</b>	<b>85245</b>	<b>100</b>
	21.9	14.3	5.1	15.7	33.9	9.1	100	
<b>Total (Original)</b>	<b>19269</b>	<b>12159</b>	<b>4369</b>	<b>13394</b>	<b>29003</b>	<b>7733</b>	<b>86017</b>	

Table 3.6 Regional Distribution of the Registered  
Factories: Number of Firms and Employees  
in 1980

Region	No. of firms	(%)	Employment	(%)	Average employment per firm	Capital (B mn)	(%)	Average cost per firm (B'000)
Bangkok	15,882	45.0	264,361	38.4	16.7	26,244	28.3	1,667.7
Central	9,413	26.3	251,262	36.3	26.7	52,781	57.9	5,607.2
North	2,556	7.3	43,261	6.3	16.9	3,769	4.1	1,474.6
Northeast	2,761	7.8	49,937	7.3	18.1	4,083	4.5	1,478.3
South	4,589	13.1	79,373	11.5	17.3	4,251	4.7	926.3
Total	<u>35,151</u>	<u>100.1</u>	<u>688,194</u>	<u>100.0</u>	<u>19.6</u>	<u>91,128</u>	<u>100.0</u>	<u>2,590.5</u>

Source: East Asia and Pacific Regional Office, Thailand:  
Industrial Sector, Background Report, 1983

Note: Exclude rice mills

Table 3.7 Changes in the Value Added of Manufacturing,  
classified by Region: 1970, 1975 and 1980

(Unit: %)

	1970	1975	1980
Bangkok	39.4	38.7	51.7
Central	37.6	41.4	36.0
North	7.9	6.7	4.0
Northeast	8.5	7.3	4.6
South	6.6	5.3	3.7
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Source: East Asia and Pacific Regional Office,  
Thailand: Industrial Sector, Background Report  
Industrial Finance Corp., of Thailand, 1983

Table 3.8a | Size Distribution of the Manufacturing Factories in Bangkok:  
Number of Factories in 1980

Code	Industries	1-9	10-49	50-99	100-299	300 over	Total
311	Food(1)	404	150	22	23	0	605
312	Food(2)	87	40	0	0	0	139
313	Beverage	10	5	3	3	6	27
314	Tobacco	2	0	0	0	1	3
321	Textiles	310	103	20	11	15	549
322	Wearing Apparels	2708	227	14	11	9	3050
323	Leather	80	15	4	4	2	111
324	Footwear	202	40	4	0	3	330
331	Wood	352	120	14	6	2	494
332	Furniture	302	80	6	6	0	490
341	Paper	171	40	7	5	3	226
342	Printing	612	183	13	14	2	824
351	Industrial Chemical	20	28	1	1	1	60
352	Other Chemicals	112	194	34	23	7	280
353	Petroleum Refinery	2	1	1	0	1	5
354	Other Petroleum	0	1	9	0	0	1
355	Rubber	96	72	5	5	1	179
356	Plastic	273	100	5	1	3	382
361	Pottery	14	5	0	0	0	19
362	Glass	22	14	7	3	2	48
369	Non-Metallic Products	67	44	14	6	3	134
371	Iron, Steel	472	144	10	5	1	632
372	Non-Ferrous Metal	74	30	1	0	0	105
381	Metal Products	1370	357	37	13	7	1784
382	Machinery	118	50	3	3	0	174
383	Electrical Machinery	128	56	10	12	8	214
384	Transport Equipment	237	107	14	18	6	382
385	Scientific	10	1	0	0	0	11
390	Other Mfg Products	328	83	5	6	1	423
	Grand Total	8868	2206	200	185	90	11699
		(75.8)	(19.6)	(2.2)	(1.6)	(0.8)	(100)

Source: Computed from the survey by the Labor Department of the Ministry of Interior



Table 3.8b Size Distribution of the Manufacturing Factories in Bangkok:  
Number of Employees in 1980 (Unit: persons)

Code Industries	1-9	10-49	50-99	100-299	300 over	Total
311 Food(1)	1696	2048	1556	3637	2424	12261
312 Food(2)	345	838	451	949	0	2583
313 Beverage	46	132	248	446	5866	6738
314 Tobacco	13	0	0	0	8922	8935
321 Textiles	1166	4212	1318	1813	26308	34817
322 Wearing Apparels	8588	4163	862	1908	5096	21507
323 Leather	348	268	250	572	1119	2557
324 Footwear	1119	670	265	0	2011	4065
331 Wood	1416	2538	1047	1078	2295	8374
332 Furniture	1570	1534	418	803	0	4325
341 Paper	700	860	422	934	1736	4652
342 Printing	2628	3387	881	2372	885	10153
351 Industrial Chemical	139	549	65	170	851	1774
352 Other Chemicals	521	2396	2376	4028	4262	13583
353 Petroleum Refinery	13	20	50	0	672	755
354 Other Petroleum	0	43	0	0	0	43
355 Rubber	440	1452	330	712	445	3388
356 Plastic	1269	1839	322	164	1901	5495
361 Pottery	68	108	0	0	0	176
362 Glass	79	365	417	555	3021	4437
369 Non-Metallic Products	326	1056	953	1140	2776	6251
371 Iron,Steel	1986	2599	625	959	318	6487
372 Non-Ferrous Metal	362	550	52	0	0	964
381 Metal Products	5575	6601	2263	2120	3561	20120
382 Machinery	538	852	242	410	0	2042
383 Electrical Machinery	496	1118	686	1842	8352	12494
384 Transport Equipment	977	2034	1006	2723	2620	9360
385 Scientific	34	16	0	0	0	50
390 Other Mfg Products	1359	1541	311	1115	468	4794
Grand Total	33817	44689	17415	30450	86869	213180
	15.9	21	8.2	14.3	40.7	100

Source: Same as in Table 3.8a

Table 3.9 Distribution of Establishments and Employees, classified by Industry: 1976/77

(Units: No. of Establishments, No. of Employees)

Industries	No. of Establishments	(%)	No. of Employees	(%)
Grain Mill Products	2366	11.27	33019	5.83
Other Food Products	2502	11.02	102556	18.11
Beverages	82	0.39	11901	2.1
Textiles	1051	5.01	122236	21.59
Wearing Apparels	3881	19.49	32779	5.79
Leather	560	2.67	8503	1.5
Wood	1811	8.63	45845	8.1
Paper	261	1.24	11155	1.97
Printing	972	4.63	11395	2.01
Industrial Chemicals	226	1.08	9389	1.66
Other Chemicals	365	1.74	18140	3.2
Rubber Products	357	1.7	15379	2.72
Plastic Products	423	2.02	7606	1.34
Non-metallc Mineral	973	4.64	34537	6.1
Basic Metal Products	855	4.07	17532	3.1
Fabricate Metal Prod	2540	12.1	33059	6
Machinery	308	1.47	4848	0.86
Electrical Machinery	277	1.32	18069	3.3
Transport Equipments	702	3.34	20649	3.65
Other Manufacturing	479	2.28	6053	1.07
<b>Total</b>	<b>20991</b>	<b>100</b>	<b>566153</b>	<b>100</b>

Source: Survey by the Department of Labor of the Ministry of Interior

Table 3.10 Distribution of Wages and Salaries, classified by Industry: 1975 and 1980

(Units: Million Baht, %)

Code Industries	VA 1975	Wage 1975	(%)	WG/VA	VA 1980	Wage 1980	(%)	WG/VA
311 Food(1)	18692	5551	28.4	29.7	30231	9082	23.46	32.03
312 Food(2)	4326	800	4.55	20.57	6895	1450	3.51	21.03
313 Beverages	5637	700	4.04	14.01	10867	1520	3.7	14.07
314 Tobacco	3785	583	2.98	15.4	6786	822	1.99	12.11
321 Textiles	8357	2612	13.37	31.20	21645	5743	13.91	26.53
322 Wearing Apparels	2961	1014	5.10	34.25	7053	2280	5.52	32.33
323 Leather	370	85	0.43	22.97	720	133	0.32	18.24
324 Footwear	460	142	0.73	30.87	1084	293	0.71	27.03
331 Wood	2447	575	2.94	23.5	7465	1422	3.45	19.05
332 Furniture	1059	268	1.37	25.31	3224	756	1.83	23.45
341 Paper	1577	381	1.95	24.16	4739	783	1.9	16.52
342 Printing	826	248	1.27	30.02	4408	692	1.68	15.7
351 Industrial Chemical	1115	347	1.78	31.12	1690	460	1.11	27.22
352 Other Chemicals	2516	642	3.20	25.52	7585	1599	3.87	21.08
353 Petroleum Refinery	3908	141	0.72	3.61	11228	448	1.09	3.99
354 Other Petroleums	241	0	0.03	2.49	778	63	0.15	8.1
355 Rubber	2289	597	3.05	26.08	5157	1141	2.76	22.13
356 Plastic	1281	620	3.17	48.4	2214	705	1.85	34.55
361 Pottery	221	52	0.27	23.53	1003	220	0.53	21.93
362 Glass	642	176	0.9	27.41	993	309	0.89	37.16
369 Non-Mettalic Product	1404	307	1.57	21.87	4163	959	2.32	23.04
371 Iron and Steel	2102	390	2	18.55	3036	593	1.44	19.53
372 Non-Ferrous Metal	928	339	1.73	39.53	2993	842	2.04	28.13
381 Metal Products	1477	349	1.79	23.63	3007	683	1.65	22.71
382 Machinery	1629	456	2.33	27.99	4356	1245	3.02	28.58
383 Electrical Machinery	1404	371	1.9	26.42	6520	1562	3.78	23.92
384 Transport Equipments	4386	1047	5.36	23.87	14205	3511	8.51	24.72
385 Scientific	141	39	0.2	27.66	441	150	0.36	34.01
390 Other Mfg Products	2857	525	2.69	18.38	4183	1078	2.61	25.77
<b>Total</b>	<b>79038</b>	<b>19543</b>	<b>100</b>	<b>24.73</b>	<b>178087</b>	<b>41273</b>	<b>100</b>	<b>23.1</b>

Source: Computed from the I-O tables in the years of 1975 and 1980

Table 3.11 Changes in Wage Rates of Unskilled Workers in Bangkok: 1978-82

(Unit: Baht per Day)

Industries	1978	1979	1980	1981	1982
Food and Beverages	39.2	43.4	52.0	67.50	72.4
Textiles, Wearing Apparols	36.0	41.4	51.8	63.72	72.08
Wood and Furniture	37.5	41.3	51	66.16	71.28
Paper and Printing	41.5	46.2	57	67.88	75.84
Chemical, Petroleum, Rubber an	39.0	44.3	55.5	65.04	73.2
Non-mettalic and Glass	36.5	43.4	52.8	63.88	71.96
Iron, Steel and Basi Metal	37.0	46.0	52.8	68.36	72.24
Machinery, Fabricated Metal	37.0	44.2	57	68.4	75.44
Other Manufacturing	40.0	42	52.0	67.24	77.48
<b>Manufacturing</b>	<b>37.0</b>	<b>42.8</b>	<b>53.2</b>	<b>65.32</b>	<b>72.88</b>

Source: Survey by the Bank of Thailand

Table 3.12 Export Value of Traditional-type and Manufactured Products in Thailand: 1960-83

(Units: Million of Baht, %)

Group	Commodity	1960	1970	1974	1978	1978	1980	1981	1982	1983
Traditional Products	Rice	2570	2516	6778	8617	16424	19518	26367	22510	20517
	Rubber	2570	2232	5035	5307	8030	12351	10841	9490	11787
	Tin	537	1618	3110	3107	7365	13556	10207	8476	5626
	Teak	350	150	402	749	254	0	40	0	0
	Sub-Total	6042	6522	18325	17780	26073	45425	47461	40476	37930
	(%)	70.14	44.3	36.47	29.25	31.39	34.1	31.02	25.34	25.9
Agricultural Products	Sugar	8	94	4249	7323	4474	3338	10145	13063	6045
	Maize	551	1069	5905	5508	4231	7201	8282	8231	8387
	Tapiocca	288	1223	3834	7530	10802	14887	10443	19748	15385
	Tobacco	21	197	450	699	1091	1371	1745	2546	1791
	Beans	57	271	611	1220	1567	1725	2266	2482	1823
	Sorghum	0	103	426	374	372	661	904	928	790
	Sub-Total	925	3857	15535	22744	23227	29183	39785	46998	34221
	(%)	10.74	26.2	30.92	37.41	27.96	21.91	26	29.42	23.36
Processed Foods	Seafoods	3	224	1367	2080	4954	7130	8724	10803	12117
	(Canned Fishes)	0	0	0	61	253	603	1109	1664	2116
	(Frozen Shrimps)	3	224	604	1347	1500	1965	2136	2764	3164
	(Cuttle Fishes)	0	0	368	632	1022	1301	1335	1784	1637
	Canned Fruits	0	55	285	645	1269	1723	2288	2203	2145
	Frozen Chikens	0	0	14	65	334	656	1187	1310	946
	Sub-Total	3	279	1666	3699	6557	9509	12199	14316	15208
	(%)	0.03	1.9	3.32	6.08	7.89	7.14	7.07	8.96	10.38
Textiles Garments	Yarn	0	5	166	436	796	1038	1185	997	970
	Fabrics	0	24	787	2044	3312	3616	4303	4856	4344
	Garments	3	44	1798	4034	6773	9567	12525	13859	14180
	Sub-Total	3	73	2751	6514	10881	14221	18013	19712	19494
	(%)	0.03	0.5	5.48	10.71	13.1	10.68	11.77	12.34	13.31
Other Manufacturing Products	Jewellery	20	130	851	995	2108	3854	5152	5363	7356
	ICs	0	0	0	0	2158	6215	6251	6205	5945
	Plastic	0	0	127	165	320	850	979	972	1180
	Wood Products	6	36	264	369	562	824	822	798	809
	Footwear	0	0	9	8	92	358	955	1343	1743
	Furniture	0	0	70	71	200	576	707	793	981
	Sub-Total	26	166	1321	1608	5440	12077	14866	15474	18014
	(%)	0.3	1.13	2.63	2.64	6.55	9.52	9.72	9.69	12.3
Grand Total	Total	8614	14722	66245	66780	83005	133107	153661	159728	148472

Table 3.13a Number of the Newly Registered Company Limited and Limited Partnership in Manufacturing: 1978-82

(Unit: Nos. of Firm)

Type of Business	1978	1979	1980	1981	1982	Total	
Grain Mill	74	81	88	85	115	443	7.89
Beverages	19	32	39	26	18	134	2.39
Other Food	157	107	93	97	112	566	10.09
Textiles	39	28	52	52	82	253	4.51
Wearing Apparel	97	88	102	86	124	497	8.86
Leather	14	27	22	13	30	106	1.89
Wood Products	73	68	76	74	111	402	7.16
Paper	28	22	18	13	25	106	1.89
Printing	78	75	64	115	128	460	8.2
Chemicals	28	27	21	28	40	144	2.57
Chemical Products	66	59	57	79	60	321	5.72
Rubber	22	14	18	25	24	103	1.84
Plastic	46	43	44	54	62	249	4.44
Non-Metallic	80	69	51	42	57	299	5.33
Basic Metal	39	14	26	28	52	159	2.83
Metal Products	84	90	73	66	107	420	7.48
Machinery	28	23	29	44	43	172	3.06
Electric Machinery	48	53	40	62	79	232	5.02
Transport Equip	43	43	41	45	63	240	4.23
Others	44	70	31	46	63	253	4.56
Total	1107	1033	985	1080	1402	5612	100

Source: Computed from informations compiled by the Bank of Thailand

Table 3.13b Paid-Up Capital of the Newly Registered Company Limited and Limited Partnership in Manufacturing: 1978-82

(Unit: Million of Baht)

Type of Business	1978	1979	1980	1981	1982	Total	
Grain Mill	106	152	123	113	233	727	12.75
Beverages	27	46	19	41	23	156	2.79
Other Food	275	315	181	145	281	1197	20.94
Textiles	64	77	109	75	100	425	6.01
Wearing Apparel	38	53	51	46	76	264	3.74
Leather	15	36	12	16	27	106	1.5
Wood Products	49	180	45	55	149	478	6.76
Paper	21	27	22	3	34	107	1.51
Printing	27	41	21	33	121	243	3.44
Chemicals	93	44	51	35	111	334	4.73
Chemical Products	34	140	54	43	61	332	4.7
Rubber	19	60	11	44	23	157	2.22
Plastic	27	89	31	38	74	259	3.66
Non-Metallic	67	198	45	36	81	427	6.04
Basic Metal	37	37	63	22	29	188	2.66
Metal Products	65	227	60	72	127	551	7.8
Machinery	99	39	22	21	44	225	3.18
Electric Machinery	35	136	35	36	121	363	5.14
Transport Equip	39	117	14	32	22	224	3.17
Others	28	80	14	29	92	243	3.44
Total	1165	2093	988	940	1881	7067	100

Table 3.14 Investments in the Promoted Industries,  
classified by Nationality: 1960-82

(Units: Million of Baht, %)

	1959-1965	1960-1972	1960-1976	1960-1982 (June)
<b>Total Registered<sup>1</sup> Capital (Million Baht)</b>	2,530 (100.0)	8,020 (100.0)	13,792 (100.0)	24,743 (100.0)
1. Thai	1,686 (66.4)	5,450 (68.0)	9,811 (71.1)	18,726 (75.7)
2. Foreign	852 (33.6)	2,750 (32.0)	3,981 (28.9)	6,017 (24.3)
<b>Foreign</b>				
1. Japan	408 (47.9)	965 (37.5)	1,521 (38.2)	1,710 (28.4)
2. USA	106 (12.4)	356 (13.9)	622 (15.6)	600 (10.0)
3. Taiwan	145 (17.0)	404 (15.7)	465 (11.7)	696 (11.6)
4. Hong Kong	n.a.	36 (1.4)	225 (5.7)	357 (5.9)
5. United Kingdom <sup>2</sup>	25 (2.9)	135 (5.3)	189 (4.7)	530 (8.6)

Notes : 1 Registered capital of firms granted promotion certificates.

2 Includes the Chinese investors with British nationality who located in Hong Kong.

Sources : The Board of Investment, Activity Report various issues.

Table 3.15 Foreign Direct Investments in Thailand, classified by Sector: 1978-82

(Units: Thousand of Baht, ₧)

Types of Business	1978	1979	1980	1981	1982	1978-82		
Agriculture	1001	3839	208350	6204	14876	234309	1.85	
Mining	74085	118479	553594	622591	700081	2068830	14.53	
Manufacturing	348717	652075	977192	1158133	1048659	4185376	29.4	100
Food	17187	63136	96170	78830	123587	378010	2.66	9.1
Textiles	20596	5724	31177	4109	33060	94066	0.66	2.3
Metal-Non-Metallic	21508	23821	60695	64688	81488	252200	1.77	6
Electricals	178661	322166	488397	582593	542727	2114544	14.85	50.5
Machinery, Transport	33894	57098	68360	64152	86494	309998	2.18	7.4
Chemicals	49946	94720	128805	87348	80570	441389	3.1	10.5
Petroleum	1053	1528	2176	228553	33197	260507	1.87	6.4
Construction Materials	285	12511	1626	0	2317	10739	0.12	0.4
Others	25587	71071	99786	47800	65219	310423	2.18	7.4
Construction	194852	224440	636517	1109262	795054	3050065	21.42	
Trade & Commerce	298665	216417	548251	296880	699996	2061209	14.48	
Finance	53280	48113	14	376	117359	400842	2.82	
Services	138711	148800	75916	685	516948	2236306	15.71	
Total	1109851	1412763	370376	412710	388773	14237537	100	

Source: Computed from the Bank of Thailand, Business and Industrial Statistics, 1984



Table 3.16 Growth Sources of Manufacturing: 1966-72  
and 1972-75

(Unit: %)

Sector	1966-72			1972-75		
	DE /a	IS	EX	DE /a	IS	EX
Processed food	107.3	0.5	-7.3	89.3	0.6	10.0
Beverages & tobacco	73.6	26.4	-0.1	87.9	0.1	11.9
Construction materials	69.5	19.6	10.9	69.5	0.3	10.2
Intermediate products I	65.3	23.7	10.5	96.3	-2.1	5.3
Intermediate products II	33.6	50.6	15.9	89.7	-9.5	23.6
Consumer nondurables	51.3	35.6	12.6	80.3	14.9	4.3
Consumer durables	31.7	66.7	1.6			
Machinery	48.3	49.0	2.7	107.3	-7.7	0.4
Transport equipment	24.7	75.2	0.1			
<u>Total</u>	<u>64.1</u>	<u>29.4</u>	<u>6.5</u>	<u>91.0</u>	<u>0.5</u>	<u>8.5</u>

Source: the Industrial Finance Corp., of Thailand

Note: Definitions of DE, IS, and EX are referred in the notes  
for Table 3.17

Table 3.17 Growth Sources of Manufacturing: 1975-80

(Unit: %)

Industries	DE	EX	IS
Food Manufacturing I	57.3	47.4	-4.7
Food Manufacturing II	82.4	18.9	-1.3
Beverages	102	1.1	-3.1
Tobacco	89.9	9	1.1
Textiles	85	13.7	1.3
Wearing Apparel	81.1	18.7	0.2
Leather	21.4	81.2	-2.6
Footwear	92.7	7.6	-0.3
Wood and Cork	100.6	2.1	-2.7
Furniture	95.2	4.9	-0.1
Paper and Pulp	98.3	1.5	0.2
Printing, Publishing	95.8	1.8	2.4
Industrial Chemical	157.6	15.1	-72.7
Other Chemical	97.3	2.5	0.2
Petroleum Refineries	110.1	-0.4	-9.7
Other Petroleum	80.4	0.1	10.5
Rubber Products	30.8	70.1	-0.9
Plastic Ware	85.3	14.3	0.1
Pottery and Ceramics	74.9	16	6.1
Glass and Glass Products	100.4	12.2	-12.3
Non-Metallic Products	102	0.1	-2.1
Iron and Steel	117.5	18.3	-23.2
Non-Ferrous Metal	21.2	80	-11.2
Metal Products	33.1	20.3	14.9
Machinery	74.9	5.1	14.9
Electrical Machinery	31.0	30.1	11.1
Transport Equipment	94.7	0.3	11.1
Scientific Equipments	70.4	33.2	10.8
Other Mfg Products	20.4	97.3	-21.2

Source: Computed from the I-O tables

Notes: 1)  $D_t$  domestic demand at a time of  $t$ ; $X_t$  production;  $M_t$  imports;  $E_t$  exports;  $U_t$  imports share $D_t = X_t + M_t - E_t$ ;  $U_t = M_t/D_t$ 2) Domestic Demand Effect  $DE_t = (1-U_t) \# D_t / \# X_t$ 3) Import Substitution Effect  $IS_t = (U_t - U_t/D_t) / \# X_t$ 4) Export Expansion Effect  $EX_t = \# E_t / \# X_t$ 

5) # indicates the changes in the value of a variable over the period (0, t)

Table 4.1 Import Substitution in the Manufacturing Sector  
(units: Million Baht, %)

Industries	IMP 1975	IMR 75	IMP 1980	IMR 80
311 Food Manufacturing I	1136	1.85	6106	6.31
312 Food Manufacturing II	316	3.06	717	4.12
313 Beverages	228	2.66	937	5.5
314 Tobacco	699	8.53	1098	7.72
321 Textiles	2107	8.24	3901	6.14
322 Wearing Apparel	51	0.64	23	0.11
323 Leather	38	4.06	79	6.8
324 Footwear	1	0.08	13	0.45
331 Wood and Cork	114	2.35	1027	7.24
332 Furniture	2	0.08	15	0.18
341 Paper and Pulp	1158	21.94	3527	21.52
342 Printing, Publishing	245	10.32	777	2.09
351 Industrial Chemical	5437	62.34	15378	73.5
352 Other Chemical	2811	30.20	7910	22.93
353 Petroleum Refineries	1637	3.20	17333	27.04
354 Other Petroleum	692	3.39	934	35.04
355 Rubber Products	221	5.91	609	8.36
356 Plastic Ware	239	11.33	609	11.23
361 Pottery and Ceramics	180	30.72	1077	7.88
362 Glass and Glass Products	211	13.11	470	13.34
369 Non-Metallic Products	367	3.31	2000	14.03
371 Iron and Steel	4163	33.40	12000	30.00
372 Non-Ferrous Metal	1043	3.33	4000	12.55
381 Metal Products	4440	3.33	10000	3.33
382 Machinery	11000	1.00	10000	1.00
383 Electrical Machinery	4440	1.00	10000	1.00
384 Transport Equipment	3000	1.00	10000	1.00
385 Scientific Equipments	500	1.00	10000	1.00
390 Other Mfg Products	141	1.00	10000	1.00
Grand Total	46781	13.34	134934	12.84

Note: IMR: Import Substitution Ratio = Import Value / (Domestic Production + Import - Export)

Table 4.2 Import Substitution and Export Expansion  
in the Selected Industries and Products: 1975 and 1980

(Unit: %)

Industries	IMR 75	IMR 80	EXPR 75	EXPR 80
Dairy Products	30.2	26.9	1.8	3.8
Canning of Fruits	2.7	8.8	38.7	72
Canning of Seafoods	2.4	7.7	25	52.2
Animal, Vegetable Oil	15.2	49.1	6.8	16
Rice Milling	0	0	14.6	32.8
Tapioca Milling	0	0	92.2	96.6
Sugar	0.1	16.4	60.3	28.7
Animal Feeds	1.6	4	0.1	18.3
Liquor	0.7	4.8	0	4.8
Beer	8.2	6.5	0.4	6.5
Soft Drinks	5.6	7.3	0.1	7.3
Spinning	8.2	4.8	4.3	6
Weaving	11.5	10.7	10.1	16.4
Knitting	6.2	3	0.9	8.3
Juce Mill Products	6.4	1.8	30.1	20.9
Wearing Apparel	0.6	0.1	9.6	15.3
Saw Mills	2.3	7.3	19.4	3.3
Pulp, Paper	30.8	30.6	2.3	1.9
Industrial Chemical	49.1	71.9	0.7	2.3
Fertilizer Pesticide	71.4	75.4	0.5	1
Synthetic Resin	79.1	89.1	2.7	31.3
Drugs and Medicines	28.4	18.5	2.1	2.6
Soap Cleaning	10.6	8.4	0.9	0.5
Matches	0	0	0	0
Tyres and Tubes	3.7	4.2	0.2	7.1
Cerest	0.1	19.9	17.3	0.7
Iron and Steel	37.8	43.9	0.7	0.8
Secondary Steel Products	39.8	59	1.3	11.9
Engines, Turbines	79.2	78.3	0.6	1.7
Agricultural Machinery	44.1	34.3	0.5	2.2
Special Ind. Machinery	70.3	69.3	1.5	5.4
Office Machinery	71.4	27.1	2.9	4.3
Industrial Machinery	62.4	95.1	0.6	3
Radio TV and Apparatus	52.5	32.1	29.5	2.4
Household Appliances	17.3	21.5	0.8	1.9
Batteries etc	3.6	2.6	0	6.7
Motor Vehicle	42.9	28.4	0.2	0.3
Motor Cycle, Bicycle	38.9	15.2	0.3	0.9
Jewellery	4	26.3	23.7	72.7

Notes: IMR = Import Value/Domestic Demand  
EXPR = Export Value/Domestic Production

Table 4.3 Export Expansion in the Manufacturing Industries

(Units: Million Baht, %)

	Industries	EXP 1975	EXR 75	EXP 1980	EXR 80
311	Food Manufacturing I	16988	22	44439	32.9
312	Food Manufacturing II	69	0.68	1629	8.89
313	Beverages	5	0.07	90	0.56
314	Tobacco	527	6.57	1083	7.62
321	Textiles	1606	6.4	7357	10.98
322	Wearing Apparel	824	9.48	3606	15.28
323	Leather	113	11.17	908	45.61
324	Footwear	1	0.08	137	4.59
331	Wood and Cork	1151	19.53	1335	9.21
332	Furniture	102	3.76	385	4.51
341	Paper and Pulp	72	1.72	204	1.56
342	Printing, Publishing	1	0.05	145	1.43
351	Industrial Chemical	31	0.94	283	5.75
352	Other Chemical	125	1.89	413	2.26
353	Petroleum Refineries	201	1.24	60	0.12
354	Other Petroleum	17	2.77	18	0.98
355	Rubber Products	2498	41.53	9823	59.64
356	Plastic Ware	121	4.93	542	10.17
361	Pottery and Ceramics	14	3.11	252	13.23
362	Glass and Glass Products	26	1.33	115	5.34
369	Non-Metallic Products	105	2.74	115	0.92
371	Iron and Steel	99	1.52	965	8.69
372	Non-Ferrous Metal	2197	50.73	14152	73.69
381	Metal Products	201	4.77	1040	12.67
382	Machinery	68	1.4	534	4.37
383	Electrical Machinery	393	9.21	3713	30.33
384	Transport Equipment	21	0.13	122	0.27
385	Scientific Equipments	56	12.73	393	29.73
390	Other Mfg Products	801	13.12	4113	48.73
	Grand Total	23334	17.73	101034	17.33

Notes: EXP: Export value

EXR: Export ratio=Export Value/Domestic Production

Monopoly and Competition in Thai Manufacturing Industries ( 1 )

Commodity, Industry	Year	Criteria	Nos. of Firms	Top 1	Market Share Top 2	Market Share Top 3	Top 5	Top Three Firms	Sources
① Pq Slaughtering	1973-83	Production	1	100				Saha Sannakha Co. Ltd.	Survey
② Chicken, Poultry								W Bangkok Livestock Processing	
③ Milk (Condensed, Evaporated)	1974 1978 1980	Production	4 4 4	40 49 46	42 48 45	83 85 83	100 100 100	W Bangkok Milk @ Bangkok Milk @ Maekha W Bangkok Milk @ United Milk @ Maekha W Bangkok Milk @ Maekha @ United Milk	Milk BOT. Pawa Utsahakom 2517 BOT. Pawa Utsahakom 2521 BOT. Pawa Utsahakom 2516
④ Canned Pineapples	1974 1977 1981		6 6 2	45 32 26	49 58 45	28 73 61	94 89	W Thai Pineapple Canning Industry W Paha Thailand @ Siam Foods " "	BOT. Pawa Utsahakom 2517 BOT. Pawa Utsahakom 2520 BOT. Pawa Utsahakom 2521
⑤ Fish Sauces			Many	nil	nil	nil		N. A.	
⑥ Vegetable Oil									
⑦ Wheat Flour								W United Flour Mill	Survey
⑧ Tapioca Products	1983		N. A.	nil	N. A.	N. A.		Meho Group	Survey
⑨ Sugar Refinery (Factory)	1979		42	6	11	16	25	W Nanyang @ Klong Lam Sugar W Nitr-Siam	Thai Sugar Institute
⑩ Sugar Refinery (Group of Companies)	1972 1979 1983	Production Production	27 42 43	34 23	57 40	71 53		W Thai Klong Klong @ Klong Siam Lee @ Nitr-Siam W Thai Klong Klong @ Klong Siam Lee @ Nitr-Siam	Survey by Ando, Pl. Thai Sugar Institute (by Kioekhai Survey)
⑪ Sugar Export	1973	Export Volume	N. A.	48	23			W N. Uthairat (London) " (Singapore)	BOT. Pawa Utsahakom 2517
⑫ Milling of Rice	1974	Production	1	73	87	76		W Ajinomoto @ Thai Perseveration	BOT. Pawa Utsahakom 2518

Monopoly and Competition in Thai Manufacturing Industries (2)

No. SUEHIRO  
1984. 12. 6

Commodity, Industry	Year	Criteria	Nos. of Firms	Marketing Share				Top Three Firms	Sources
				Top 1	Top 2	Top 3	Top 5		
(13) Animal Feeds (Factory)	1975	Production	9	23	38	50	22	BOI Survey	
	1980	Production	35	30	41	51	67	① Bangkok Feedmill, ② Lam Thong Coy ③ Chansen Pakpand Feedmill	
(14) Animal Feeds (Group of Companies)	1975	Production	9	41	54	65	-	① C.P., ② CENIACO, ③ Hong Hing	
	1980	Production	35	49	60	67	-	① C.P., ② Lam Thong, ③ CENIACO	
(15) Liquor	19 - 8	Sales (Production)	1	100	-	-	-	① Mahayana Distillery	
(16) Beer	1980	Sales (Volume)	2	92	100	-	-	① Donmuang Brewery ② Thai Amarit	
(17) Soft Drinks	19	Sales in							
	1982	Bangkok (Volume)	N.A.	46	50	93	-	① Thai Five Drinks, ② Sarn Sak ③ Green Spot (Thailand)	
(18) Cigarettes	1982	Production	1	100	-	-	-	① Thai Tobacco Monopoly Sikewjite Mill	
(19) Gunny Bags	1974	Production	10	22	37	51	76	① Lam Thong ② Northeast Jute Mill ③	
	1983	Equipment (Spinning)	11	19	37	48	67	① Lam Thong Industry ② Pak-Ching Jute ③ Jute & Kapok Industry	
(20) Textile - Spinning (Factory)	1975	Equipment	over 60	13	23	29	40	① Thai Double ② Luckytex ③ Thai American	
	1978	"	60	9	18	24	32	① Luckytex ② Thai Double ③ Thai American	
	1983	"	68	8	16	23	34	① Thai Double, ② Union Textile ③ Luckytex	
(21) Textile - Spinning (Group of Companies)	1975	Equipment	over 60	18	31	43	53	① Sukree ② Thai Double ③ Tony-17L	
	1978	"	60	17	28	37	48	① Sukree ② Tony-17L ③ Thai Double	
	1983	"	68	21	32	40	50	① Sukree ② Saha Union ③ Tony-17L	
(22) Textile - Weaving (Factory)	1975	Equipment	368	7	12	14	18	① Thai Double ② Luckytex ③ Thai American	
	1978	"	432	6	10	14	17	① Luckytex ② Union Textile ③ Thai Double	
	1983	"	over 500	5	10	13	17	① Luckytex ② Union Textile ③ Thai Double	

Monopoly and Competition in Thai Manufacturing Industries (3)

No. SUEHUR 2  
1984 . 12 . 6

Commodity, Industry	Year	Criteria	Nos. of Firms	Marketing Share				Top Three Firms	Sources
				Top 1	Top 2	Top 3	Top 5		
(21) Textile - Weaving (Group of Companies)	1975	Equipment	343	7	13	17	20	(1) Thai Amble, (2) Jany-til, (3) Sukree	Survey by Japanese
	1978	"	432	6	11	14	21	(1) Jany-til, (2) Thai Amble (3) Sukree	Chamber of Commerce
	1983	"	400	5	10	15	21	(1) Jany-til, (2) Saha Union (3) Sukree	
(22) Textile - Dyeing, Finishing	1975	Capacity	82	7	13	18	27	(1) Thai Nicoll, (2) Thai Dunette (3) Jokai Dyeing	Same to the above
	1978	"	95	7	15	20	28	(1) Luckytex (2) Thai Nicoll (3) Jokai Dyeing	
	1983	"	44	6	10	15	22	(1) Union Textile, (2) Thai Nicoll (3) Jokai Dyeing	
(23) Carpets & Rugs	1975	Capacity	5	53	73	85	100	(1) Thai Diateki (Hologuna), (2) Thai Carpet	Book Clubs
	1983	Capacity	7	36	62	76		(1) CP Textile (2) Carpet International (3) Thai Carpet Factory	Japanese Chamber of Commerce
(24) Garments	1980	Export Value	Major Firms 48	13	20	24	28	(1) Thai Chinnent Export, (2) Thai Jyo (3) Dan Thai Textile	Survey by Suehiro
(25) Plywood	1982	Capacity	N.A.	37	57	75	---	(1) Thai Plywood	BOT, Pawa Utsahakam 2525
(26) Veneer Panels	1981	Capacity	10	30	43	57	70	(1) Thai Chip Board, (2) Thai Asia Lintulay (3) Thai Teak Wood Veneer	BOT, Pawa Utsahakam 2525
(27) Pulp	1977	Production	4	62	85	93	---	(1) Thai Pulp Industry (2) Thai Pulp Industry (3) Thai Pulp Industry	BOT, Pawa Utsahakam 2520
(28) Kraft Paper	1974	Production	12	60	77	82	87	(1) Siam Kraft Paper (2) Hanyang Fibre Co. (3) Bangkok Paper	Survey by Book Club Finance & Securities
	1983	Capacity	21	29	48	54	72	(1) Siam Kraft Paper (2) Hanyang Fibre (3) Thai Union Paper	Siam Kraft Paper Co
(29) Printing-Writing Paper	1974	Production	4	87	75	96	100	(1) Thai Union Paper, (2) Hanyang Fibre (3) Siam	Survey by the Book Club
	1983	Capacity	10	46	58	49	83	(1) Thai Union Paper (2) Siam Paper (3) Hanyang Fibre Paper Mill	Siam Kraft Paper Co
(30) Sanitary Paper	1974	Production	3	51	94	100	---	(1) Thai Scott Paper (2) Kimberly-Clark	
	1977	Production	4	29	57	81	100	(1) Kimberly-Clark (2) Thai Scott Paper (3) Siam Paper Industry	BOT, Pawa Utsahakam 2520



Monopoly and Competition in Thai Manufacturing Industries (4)

No. 5. UFAHBB  
1984 . 12 . 6

Commodity Industry	Year	Criteria	No. of Firms	Top 1	Marketing Top 2	Share Top 3	Top 5	Top Three Firms	Sources
(67) Cauter Soda	1975	Capacity	N.A.	43	53	63		W Thai Asphalt, P. Siam Soda	BOT, P. Siam Uthitakom 2572
	1980	Production		54	66	77		W Thai Asphalt, Siam Soda, W Thai Asphalt, Industrial W Siam Soda, W Siam Soda	BOI Survey Industry
	1975	Capacity	N.A.	45	63	74			BOT, P. Siam Uthitakom 2572
(68) Detergents	1976	Capacity	5	46	75	84		W Leven Brothers, W Caltex Palmolive, W Lion Lion Oil	BOT, P. Siam Uthitakom 2572
	1982	Capacity	5	43	66	87		W Leven Brothers, W Lion Lion Oil, W Caltex Palmolive	BOT, P. Siam Uthitakom 2572
(69) Fertilizer	19 - 83	Production	1	100	-	-		W Thai Chemical	
(70) Polyester Staple	1972	Capacity	1	100	-	-		W Teijin Polyester	Survey by Japanese
	1978		2	63	100	-		W Teijin Polyester, W Thai Nylon Polyester	Chamber of Commerce
	1983		2	69	100	-			1972, 1978, 1983
(81) Polyester Filament	1972	Capacity	2	55	100	-		W Teijin Polyester, W Tomy Nylon Thai	Same to the above
	1978		4	46	69	97	100	W Teijin, W Tomy Nylon, W Thai Nylon	
	1983		3	45	75	100		W Teijin, W Thai Nylon, W Tomy Nylon	
(82) Nylon Filament	1972	Capacity	2	60	100	-		W Tomy Nylon Thai, W Lion Fibre	Same to the above
	1978		3	36	71	100		W Tomy Nylon, W Lion Fibre, W Liontex	
	1983		3	40	73	100		W Tomy Nylon, W Lion Fibre, W Liontex	
(83) Rayon Staple	1978	Capacity	1	100	-	-		W Thai Rayon	Same to the above
	1983		1	100	-	-			
(84) Soap								W Leven Brothers, W Caltex Palmolive, W Lion Soap	
(85) Matches								W Thai Match Co.	

Monopoly and Competition in Thai Manufacturing Industries ( 5 )

No. SURHRO  
1984 . 12 . 6

Commodity, Industry	Year	Criteria	Nos. of Firms	Marketing Share				Top Three Firms	Sources
				Top 1	Top 2	Top 3	Top 5		
(43) Petroleum Products	1974	Production	4	3				National Energy Administration, "Oil and Thailand" 1977, 1982	
	1978	"	4	38	72	88.8	100		PTORC-Shell @ Bangkok @ ESSO
	1982	"	4	38	69	88.6	100		PTORC-Shell @ Bangkok @ ESSO
(44) Tyres (for Cars)	1974	Production	4	39	69	84		BOT, Pawa Utsahokam 2517 @ Dunlop	
									@ Pirestone, @ Thai Dunlop
(45) Tyres (Inner Tube)	1974	Production	4	35	64	82		BOT, Pawa Utsahokam 2517 @ Dunlop	
									@ Thai Dunlop @ Pirestone
(46) Glass Bottles	1977	Capacity	around 20	62	84			BOT, Pawa Utsahokam 2520 " / BOI, Annual Report 2523	
	1980	"	20	35	60	Nil.	88		@ Thai Glass Industries, @ Glass Chyamp
(47) Glass Sheets	19 - 83	Production	1	100	--	--	--	@ Thai Asahi Glass	
(48) Cement (Portland)	1974	Production	3	65	87	100		BOT, Pawa Utsahokam 2517, 2521, 2525	
	1978	Capacity	3	68	87	100			@ Siam Cement @ Silapattana @ Siam City
	1982	"	3	70	88	100			"
(49) White Cement	1974	Capacity	2	50	100	--		" Same to the above	
	1982	"	2	62	100	--			@ Siam Cement, @ Universal White Cem

Monopoly and Competition in Thai Manufacturing Industries ( 6 )

No. SUREURO  
1984 . 12 . 6

Commodity Industry	Year	Criteria	Nos. of Firms	Manufacturing Share			Top 3 Firms	Sources
				Top 1	Top 2	Top 3		
(1) Iron & Steel	1978	Production	6	35	63	82	100%	A Survey by the Japanese Steel Chamber of Commerce 1980, 1983
	1980	"	6	33	56	77		
	1982	"	6	37	52	74		
(2) Tube & Pipe	1978	Production	12	18	33	48	70	Same to the above Thai Steel Pipe
	1980	"	14	21	35	48		
	1982	"	14	22	35	49		
(3) Galvanized Steel Plate	1978	Production	3	44	80	100	100	Equal Iron Same to the above
	1980	"	3	46	78	100		
	1982	"	3	46	81	100		
(4) Tin Plates	19 - 83	Production	1	100	-	-	100%	Same to the above
(5) Wire Rods	1978	Production	11	17	30	44	68	Same to the above
	1980	"	11	-	-	-		
	1982	"	12	14	28	41		
(6) Welded Tubes	1978	Production	4	34	64	84	100%	Same to the above
	1980	"	4	35	63	87		
	1982	"	5	30	60	88		
(7) Sheets Steel	1978	Production	7	25	44	60	100%	Same to the above
	1982	"	7	33	48	61		
(8) Iron & Steel	1978	Production	11	23	42	56	100%	BOT, Iron & Steel Industry (1987)
1982	"	11	23	42	56			
(9) Iron Smelting	1981	Capacity	4	90	98	98	100%	

Monopoly and Competition in Thai Manufacturing Industries ( 7 )

Commodity Industry	Year	Criteria	No. of Firms	Top 1	Marketing Top 2	Share Top 3	Top 5	Top Three Firms	Sources
(37) Air Conditioner	1975 1978		N.A.						
(38) Refrigerator	1975 1978	Capacity	N.A.	37	46	55	71	(1) Sanyo (2) Toshiba (3) A.P. National	
(39) Electric Fan	1975 1978 1980	Capacity Production	N.A.	16 13	31 23	45 32	70 68	(1) Sanyo (2) National (3) Sanyo	
(40) Radio Receiver	1974 1977	Production Capacity	N.A.	25	37	N.A.	N.A.	(1) Janin (2) National	GOT. Pawa Utsahakom 2572
(41) TV Receiver	1974 1977	N.A. Capacity	25 13	42 17	54 30	73 64	88 88	(1) Sanyo (2) National (3) Hitachi	GOT. Pawa Utsahakom 2572 Survey by BOT
(42) Dry Cell Batteries	1973 1978 1981	Production Production Capacity	15 + 4 15 + 4 13 + 4	42 34 31	62 53 47	75 64 42	87 83 85	(1) Sanyo (2) National (3) Sanyo (4) National (1) Sanyo (2) National (3) Sanyo (4) National (1) Sanyo (2) National (3) Sanyo (4) National	GOT. Pawa Utsahakom 2572 BOT. Pawa Utsahakom 2572 BOT. Pawa Utsahakom 2574
(43) Storage Batteries	1977	Capacity							GOT. Pawa Utsahakom 2572
(44) ICs	1981	Capacity	5	53	82	91		(1) National Semiconductor (2) Signetics	GOT. Pawa Utsahakom 2574
Incandescent Lamp	1975	Production	7	60				(1) Thai Lamp	Survey by MOI

# Monopoly and Competition in Thai Manufacturing Industries (8)

No. 52/EH/82  
1984 . 12 . 6

Commodity Industry	Year	Criteria	Nos. of Firms	Marketing Share			Top 5	Top Three Firms	Sources
				Top 1	Top 2	Top 3			
① Auto-Industry	1974	Nos. in Sales		26	47	61	77	Toyota Motors Co. Servy BOT, Pawa Utchakorn 2520	
	1977	"		23	45	61	77		
	1982	"		29	53	73	85		
② Passenger Cars	1982	Nos. in Sales		36	53	64	75	BOT, Pawa Utchakorn 2525	
	1982	Nos. in Sales		27	55	82	90		
③ Commercial Cars	1980	Nos. in Sales	5	37	74	94	100	Business in Thailand Aug 1981	
④ Buses	1974		1	97	-	-	-	Business in Thailand Aug 1981	
	1977		3	43	93	100	-		
	1980			50	82	94	-		
⑤ Trucks (<10 wheels)	1977		5	61	92	96	-	Business in Thailand Aug 1981	
	1980		5	43	67	76	-		
⑥ Trucks (<6 wheels)	1977		4	61	98	-	-	Business in Thailand Aug 1981	
	1980		4	55	99	-	-		

PART II BANGLADESH

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## Preface

This report was prepared as a part of the IDE project on the "Manufacturing in Asian Countries" to meet with the requirement of the UNIDO. The main purposes of the report are two. One is to provide basic information concerning manufacturing in Bangladesh, and to construct the statistical data in series which are comparable to those in other Asian countries. The other one is to present a brief description on its change in various aspects in connection with the manufacturing of Bangladesh for the past time.

The report consists of four chapters. The first chapter deals with a brief history of the manufacturing industry of Bangladesh and the industrial policies undertaken by the government. The second chapter provides overviews on the contribution of manufacturing to growth of the national economy during the last two decades on the levels of gross domestic products, employment and foreign trade.

The third chapter analyses the structure of manufacturing with more detailed information. Major topics discussed in this chapter are the value added, the gross output, the number of establishments regional and industrial distribution of manufacturing factories, the small and cottage industries, and domestic investments in manufacturing.

The last chapter summarises problems facing the Bangladesh manufacturing in connection with the New Industrial Policy by the government of Bangladesh.

Most of information concerning the Bangladesh manufacturing contained in the report were collected through the field survey conducted in Bangladesh in October 1984 in co-operation with UNIDO Dakha office and other organizations.



## Chapter I

### A Review of Industrial Development and Policies

#### 1. Manufacturing Industries in the East Pakistan Period

1.01 When Dhaka was the capital of Bengal under Mughuls, it was the center of muslin cloth production which was popular in Europe. In addition Bangla produced fine cotton, silk and brocade. There were many skilled workers who produced very fine and luxurious muslin cloth. In the early years of 19th century, however, production of muslin, jute goods became important production in Bengal. The establishment of jute mills in Europe led to increased demand for jute, but it also made local handloom production uncompetitive. So, basic technological tradition was almost disappeared from Bengal till the end of the 19th century.

1.02 With the partition of British India in 1947, Muslim East Bengal opted to become part of the new state of Pakistan. East Pakistan was poorly placed for economic independence. Because it had been the agricultural hinterland of Calcutta, East Pakistan had practically no large industries, banks or commercial establishments. Its strength lay in its strong agricultural base, with produce only rice and jute.

1.03 At partition, the manufacturing sector accounted for about 4% of GDP in East Pakistan. The largest share was that of the 200,000 or so cottage industry establishments (units employing mainly household labour), producing handloom textile, salt, processed food and beverages and wool products. Second in importance came some 3,000 small-scale industry units (employing less than 10 workers). Large and medium-scale industrial enterprises shared only 0.5% of GDP. Those mainly produced cotton textile. Despite of main jute producer in the world (almost 80% of the world output), there were not a single jute mill in East Pakistan, because jute had to be processed in, and exported from Calcutta.

1.04 After the partition, government of Pakistan made industry the cornerstone of its economic development strategy. While india's path towards economic development was influenced mainly by the model of the USSR, Pakistan tended towards the Japanese model. The strategy was to promote rapid industrialization under the private ownership with assistance from the Government. As the result, between 1949/50, manufacturing sector in East Pakistan was expanded rather slowly, and its share of GDP was increased from 4.1% in 1949/50 to only 7.2% in 1969/70.

1.05 The first major growth area was jute industry. Between 1951 and 1958, 14 jute mills, with about 8,000 looms, commenced operation. By 1969/70, the number of jute milles had increased to 74 having 22,500 looms, and one half of the jute crops was being processed by local jute mills. The 2nd one was cotton textile industry. Based on West Pakistan's raw cotton, its production increased very rapidly. In 1947, East Pakistan had 110,000 spindles and 2,700 looms. By 1969/70 installed capacity had risen to 750,000 spindles and around 7,000 looms, and production had reached 105 million pounds of yarn and 59 million yards of cloth. Yarn production increased more rapidly than cloth, because mills had to provide the yarn to handlooms. These two textile sectors accounted for about 43.1% of value-added in manufacturing in 1969/70. The 3rd major sector was food processing, beverages and tobacco sector which shared 29.6% in the same year. It means that over 70% of value-added in manufacturing was produced only these two sectors, textile and food processing.

1.06 Another feature of the process of industrial growth was the rapid expansion of large-scale manufacturing relative to small-scale and cottage industry. Value-added in large-scale units (10 or more workers) grew at 14.9% per annum while value-added in smaller units is estimated to have grown only at about 4% per annum during 1949/50 to 1969/70, which is a little over the population growth rate at 2.5%. There was sharp contrast

between an expanding "enclave" group of urban, large-scale industries on one hand, and a stagnant traditional manufacturing sector in the rural areas using minimum capital.

1.07 There were many reasons which could explain slow and unbalanced industrial growth in East Pakistan.

1) There was substantial shortfall in private and public investments in East Pakistan. The main strategy for industrialization of government of Pakistan was to promote private investment and government supported their activities providing institutional framework and infrastructure. At partition, private capital was concentrated into West Pakistan and the investors invested their capital mainly in West Pakistan, and only some parts of capital was invested into jute and cotton textile industry in East Pakistan. And also more than half of government development outlays was made in West Pakistan for supporting private sector. So East Pakistan did not have enough infrastructure for sustaining economic growth at a reasonably rapid pace. Further more, financial institutes, such as Pakistan Industrial Credit and Investment Corporation (PICIC), Pakistan Industrial Development Corporation (PIDC), Industrial Development Bank of Pakistan (IDB) tended to be mainly in support of the projects of West Pakistan.

2) East Pakistan could not use foreign exchange which it received by exporting jute and jute products. These foreign exchange was used for importing materials which needed for the projects of West Pakistan. Foreign assistance also mostly flowed into West Pakistan. As a result, in the 1960's, East Pakistan became the market of West Pakistan's products, which were protected by import tariff or import restriction.

3) The reliance on the private sector tended to create a bias against East Pakistan with its limited entrepreneurial tradition and accumulated capital. So, investment in large-scale jute and cotton textile mills were mostly West Pakistani. They tended to employ administrators and technicians from West Pakistan and to sent back large profits to West Pakistan, not reinvested in East. Transfer of technology did not take place in the factory and these large-scale textile industry were a kind of "enclave"

in the economy of East Pakistan, with a little contribution to East Pakistan's economic development.

1.08 In the 1960's, there was increasing realization that East Pakistan was lagging industrially and regional income disparity increased further and that this was causing politically unstable and resentment. Bengali nationalist movement strengthened in East Pakistan. There was an attempt to encourage local entrepreneurship in East Pakistan through direct investment by a state-owned Industrial Development Corporation (EPIDC). The idea was that EPIDC would bring the manufacturing units into operation, demonstrate their profitability and then disinvest them to the private sector. While this was done initially, EPIDC very soon became a large holding and managing company because these manufacturing units could not demonstrate their profitability and/or West Pakistanis were rather hesitant to invest in East Pakistan and East Pakistanis did not have the capital to invest.

## 2. Industrial Development after The Independence

1.09 After 9 months civil war, East Pakistan became independent Bangladesh in December 1971. All West Pakistani entrepreneurs and managers repatriated. In March 1972, all assets in Bangladesh of West Pakistanis were declared to be "abandoned", and ownership passed over to the government of Bangladesh. In addition, all jute, cotton textile, sugar mills were nationalized irrespective of their ownership. The new enlarged public sector, consisting of the abandoned units, nationalized mills and the enterprises owned and managed by the EPI, totalled nearly 400 units and about 85% of the value of industrial assets in medium- and large-scale industry.

1.10 Based on this nationalization policy, Government set up First 5 Year Plan (1973/74-1977/78). So far major objectives of the plan placed on the agricultural development, specially self-sufficiency in food grain and further development of economic infrastructure, allocations of the plan outlay for the industri-

al sector was only 20%. Among that 85% were allocated to the Public Sector, and private sector was only 15% of total outlay. Agriculture have been given highest priority with allocation of 24%. For economic infrastructure, transport and communication sectors which were poor conditions in East Pakistan period and most damaged sectors during the civil war in 1971, claim nearly 16%, power and natural resources claim about 12% of total development outlay.

1.11 In the industrial sector plan, first priority was given on agro-support industry, such as fertilizer, pesticide, power pumps, tubewells and sprayers, etc., and agro-based industry, such as jute, sugar, tobacco, tea, leather and so on. The second emphasis was given to the industry which utilize available domestic resources, such as natural gas, clay and limestone. For import substituted capital good industry, plan described "to gradually develop a capital good industry starting from simple operations and developing through linkage effects to feed inputs to other sector (e.g. transport) or other industries (viz., machinery and parts)." As for export-oriented industry, because of the possibility of diversifying export seemed limited, plan did not give much emphasis on it.

1.12 The composition of industrial investment as proposed in the plan was rather unrealistic. The plan lays heavy emphasis on new projects (70% of total industrial investment) and for balancing, modernization and replacement purposes in the public sector was set 10% only. In a situation where much of the industry was seriously affected by the lack of maintenance and replacements, and had to operate under many capacity constraints, such plan seemed too much ambitions.

1.13 The performance of the First 5 Year Plan was far below of expectation and plan targets. During plan period, GDP increased at an average annual growth rate of 4.0% as against the plan target of 5.5%, and growth rate of the real per capita GDP was only 1.6% per annum though target was 2.5%. This is shown in Table I-1.

1.14 The results of manufacturing sector were more disappointing. Its average annual growth rate shown -0.3% as against the plan target of 7.1%. Industrial output could not even reach the 1969/70 level until 1976/77 as public sector enterprises were under the deteriorated condition. Physical target and achievement during plan period had shown that except tea and sugar, almost all industrial products could not achieve their target and achievement rate was very low.

1.15 The short fall in the performance of the manufacturing sector during the First 5 Year Plan period could be attributed to a number of economic and non-economic factors as follows;

1) Institutional weakness and management problems: effective implementation of nationalization policy should be supported by well organized and established government administration. But Bangladesh had no such administrative organization, no skilled managerial personnels at the time of independence.

2) Scarcity of financial resources: Plan started at the same year of the first oil crisis in 1973. After that, by domestic and international inflationary pressure, domestic resources and foreign aid in real term was decreasing quickly. As a result, total development expenditure was more than plan target in current prices, but at 1972/73 constant prices, it was only about 51% of plan target in the real term.

3) Loss of export markets: prior to independence, West Pakistan absorbed about one-half of Bangladesh merchandise export. The disruption of this trade and inability to develop alternative market resulted in considerable under-utilization of capacity, and also in serious scarcity of current imports.

4) Lack of infrastructure: the frequent break downs in the power supply, transport bottlenecks were also important factors.

5) Political instability: in 1975, there were 3 military coup d'états.

6) Natural calamity: in 1982 and 1983, there were severe drought, and in 1984, historical flood had caused the starvation.

1.16 Following The First 5 Year Plan, government formulated The Two Year Plan (1978/79-1979/80). After Ziaur-Rahman's military government took the power in 1975, new government gradually introduced more pragmatic economic policies. The aims of making this kind of transitional plan were to complete many unfinished projects in the First 5 Year Plan, and it was felt a period of 2-3 years, in which these new policies would be pursued and implemented, would provide some experience which might prove valuable in preparing the Second 5 Year Plan.

1.17 In the manufacturing sector, Two-Year Plan had two main objectives. One was to improve management efficiency of the public sector industrial enterprises and second was to further stimulate the private sector. Private sector allocated 16% of the plan outlay compared to 11% provided in the First Plan. Distribution of the public sector allocation showed that about 90% of the total development outlay was invested into on-going projects.

1.18 The performance of Two Year Plan was better than the First Plan. The annual growth rate of GDP was 3.5% and manufacturing sector achieved the growth rate of 2.3%. But physical production targets were not achieved in most major products, jute, cotton yarns cloth, paper and sugar. (Table I-2)

1.19 After two years transitional period, government started the Second Five Year Plan (1980/81-1984/85). In view of the urgency for overcoming food deficit, creating employment opportunities in the rural areas, highest priority was given to agricultural development in this plan. The industrial strategy was therefore to provide the necessary support to the rural sector. Somain emphasis was on agro-support and agro-process industries. Considering the long-term economic interest of the country, manufacture of machinery and equipment were also given due emphasis.

1.20 But, macro economic situation in the first and second fiscal year were very poor because of bad weather conditions and

continuous political troubles after the assassination of President Ziaur Rahman in May, 1981. There was another coup d'état by Army General Md. Ershad in March, 1982 and Martial law was declared again. New Ershad government changed industrial strategy and issued the New Industrial Policy in June, 1982 with more liberal and opened economic policy. And May 1983, Ershad government revised the Second Five Year Plan. There was not a great change in the objectives of the Plan, but some changes in the emphasis, strategy and targets. With availability of lesser resources, investment programme also set at a lower level. For the industrial sector, the policy of encouraging the private investment in the big way was adopted.

1.21 Since there are, among other things, no strict continuity of political system as well as that of economic system as in Bangladesh between the pre- and post-independent period, we can not have a firm basis for our long-term analysis on the economy of Bangladesh. It is impossible for us to adopt a single base year for long-term analysis between these two period. So, throughout this paper 1959/60 is selected as base year for the pre-independent period and 1972/73 for the post-independent period. We have so far no information whether the unification of base year for the two period are possible in the near future.

1.22 Table I-1 provides the long term performance of the economy of Bangladesh for the two periods. As indicated in the table, the annual growth rate in terms of GDP for post-independent period was far from the satisfactory level as compared to the expectation, and annual growth rate of per capita GDP was so low. The manufacturing sector could not reach its targeted growth rate in the whole period.

### 3. Changes in Industrial Policies

1.23 In Pakistan period, the whole industrial system operated within the frame work of a mixed economy in which the private sector played the dominant role and public sector was



restricted to a few selected areas and was designed to facilitate the working of the private sector by developing infrastructures and acting as a catalyst and promoter in the field of manufacturing industry.

1.24 With the emergence of Bangladesh in 1971 as a separate state, the new government hanged the whole frame work of industrial ownership and policy. All industrial units owned by the non-locals were taken over by the government and all units in the jute, textile and sugar sectors were nationalized. Ten sector corporations were established for the management of these nationalized units and the government brought nearly 240 enterprises with 85% of all industrial fixed assets under public ownership.

1.25 This action was part of the government's policy to create socialism which was one of the objectives of the state policy, which was to allow private property within limits and cooperative ownership within the legal framework of the country. The industrial policy of the government accordingly aimed to encourage the private sector within small limits set in terms of fixed assets. It allowed foreign private investment as a minority share holder in association only with a public corporation.

1.26 But the nationalized sector was faced with a number of difficulties, such as, shortage of trained managerial personnel, scarcities of skilled manpower, no effective incentive system, chonical labour unrest, delay in supply of raw materials and spare parts, inadequancies in transport, power and pricing problem which determined by the government below cost in most cases.

1.27 The new government under General Ziaur Rahman came into power in November 1975 and had taken a number of important steps to stimulate and promote industrial development and investment in Bangladesh. They amended the industrial policy in December 1975. The aims of this amended policy were to utilize private

entrepreneurs for industrialization of Bangladesh, and to change the public sector into more effective production unit. Major changes under the amended policy were summarised as in the following: Firstly, private sector was provided for a large role. Ceiling on private investment was raised from Taka 30 million (US\$ 2 million) to Taka 100 million (US\$ 7 million) and the number of industries reserved for the public sector was reduced from 18 sub-sectors to 8 sub-sectors. In case of joint venture, private investor would be allowed to manage the unit though the majority shares should be retained by public sector.

1.28 Secondly, financial institutions supporting industry were re-activated. The Investment Corporation of Bangladesh was set up to provide the credit to private industries and to generate private savings, the stock exchange market was re-activated.

1.29 Thirdly, the disinvestment of public enterprises to private entrepreneurs was started. Foreign private investment either in collaboration with public or local enterprises were made welcome. Repatriation of foreign capital and profits were permissible.

1.30 Lastly, the reorganization of the public corporations. The number of sector corporations had been reduced from 10 to 5 by bringing related industrial sectors under one corporation, such as Chemical Industries Corporation (BCIC), Sugar and Food Industries Corporation (BSFIC), Steel and Engineering Corporation (BSEC), Textile Mills Corporation (BTMC) and Jute Mills Corporation (BJMC).

1.31 Unfortunately, performance of Manufacturing under this policy was not as excellent as expected. So, in June 1982, new government of General Ershad issued the New Industrial Policy in order to provide a new dimension and greater thrust to industrialization of Bangladesh.

1.32 The New Industrial Policy is comprehensive statement of positive policies enforcing a greater role for the private sector within a mixed economy. Among its stated objectives were : (1) to improve the efficiency of public sector enterprises, (2) to provide an improved policy environment for the private sector, (3) to foster the development of efficient export oriented and import substituting industries, (4) to encourage the spatial dispersal of industries especially to backward areas, (5) to provide increasing opportunities for productive employment in the industrial sector. In the following chapters, the report will examine that whether the government could accomplish her objectives or not, and how the Bangladesh manufacturing has changed in line with new policies.

## Chapter II

### The Role of Manufacturing in the Bangladesh Economy

#### 1. Structure of GDP and Sectorial Growth Rate

2.01 Basically, Bangladesh is still under the agrarian economy, we can say that the industrialization is just in the beginning stage. So far technological development and infrastructure of agriculture are far behind from other Asian countries, agricultural production largely depend on weather condition. As the result, growth rate of agricultural production was very low level and GDP's growth rate also shown stagnant over the past two decades. Per capita income did not change largely even after the independence.

2.02 Table II-2 indicates the average annual growth rate in each five years. Manufacturing showed higher growth rate than agriculture and the GDP in the 1960s and 1970s, but its ratio declined in the 1980s, though government of Bangladesh gave special emphasis on manufacturing with new industrial policy during Second Five Year Plan, 1980-85 (as mentioned in Para 1.32)

2.03 Contribution of manufacturing to the GDP increased from 6.2% in 1959/60 to 11.0% in 1983/84. On the other hand, agricultural contribution decreased from 61.3% to 52.9%, still very high. It means that economic structure of Bangladesh is more or less the same of Nepal or Bhutan and it will take quite some time that manufacturing will surpass agriculture in terms of the value added at constant prices.

2.04 Though the industries sector contributes only 11% of the GDP, its importance is much greater as it plays a strong supportive role in the country's agricultural and infrastructural development. It accounts for about 70% of the foreign exchange earnings and provides a wide range of essential consumers items. Further manufacturing sector including small-scale and cottage industries absorbed large number of employment.

## 2. Employment

2.05 Compared with slow structural change of the GDP, composition of the labour force changed more remarkably. Agricultural share in the total labour force was decreased from 84.6% in 1961 to 58.6% in 1983/84. On the other hand, manufacturing's share increased from 4.8% to only 7.5% in this period. Large numbers of the labour forces were absorbed in various service sectors, such as tiny business, rickshaw pullers or small shops.

2.06 The share of agricultural labour force seems to be too small compare with other South Asian countries. One of the reasons is that agriculture can not absorb large number of the labour force any more, because of its low productivity. There are many un-employed and under-employed labour force in the rural areas and these un- or under-employed labourer push out from rural to urban areas. But manufacturing sector can not give enough employment opportunities to these migrated peoples, so they have to find their job in the service sectors.

2.07 Another reasons may be that though large number of temporary seasonal workers are employed in agriculture as daily workers, they are not included in agricultural labour force. If these population include, the proportion of agricultural population will be higher than that expressed in the table II-3.

### 3. Trade Structure

2.08 Trade structure also reflected stagnant economic situation in Bangladesh. Table II-4 indicates the changes in import of Bangladesh. The share of food import occupied nearly about one quarter, though fluctuated according to domestic food production. From this structure of import, we can not see any remarkable changes occurred in the industrialization. It suggested that Bangladesh has not entered into a real industrialization process, but just at the beginning stage.

2.09 Table II-5 showed the changes of export structure. Export of raw jute declined in the last ten years between 1973/74 to 83/84. Because of capacity utilization of the jute mills recovered, and new export commodities, such as jute carpet, produced in the jute mills, domestic consumption of raw jute increased, so that there were not so much export surplus of raw jute. The share of jute goods export also decreased from 53.2% in 1973/74 to 44.4% in 1983/84. On the other hand, non-traditional export items, such as leather, Hides and skins, garments, increased in the last 3-4 years. It means that the diversification of export commodities took place gradually.

2.10 Most of these exported commodities from Bangladesh belong to the products produced by selected industries consuming domestically-produced agricultural raw materials, such as jute good, tea and frozen foods or labour-intensive industries, such as garments manufacturing.

2.11 The share of manufacturing in the total export was quite high as shown in the Table II-6. It was 64.3% in 1973/74

and 76.3% in 1983/84. But it does not mean that higher stage of the industrialisation. Under the condition of that export occupy less than 10% of GDP, and there are no exportable natural resources or no export surplus of agricultural production, share of manufacturing has to be much higher.

2.12 Table II-6 summarised the industrial sector in association with the national economy in the selected years of 1973/74, 1978/79 and 1983/84. Various indicators suggest slow growth of industrial sector for the past decade.

### Chapter III

#### Structural Characteristics of Manufacturing Industries

##### 1. Value Added and Gross Output

3.01 A thorough evaluation of the structure and recent performance of industry in Bangladesh is very difficult, due to a lack of reliable or comprehensive industrial statistics. Only information source concerning industrial sector is annual Census of Manufacturing Industries (CMI) conducted by the Bangladesh Bureau of Statistics (BBS). Though the restricted coverage of the CMI is generally known, the results tend to be accepted as representative of industry as a whole. Thus, conclusions regarding the sectoral composition of industry, the share of government enterprises, regional dispersion, etc. are commonly based on the CMI, and the coverage of manufacturing in the national accounts and input-output tables and weighting system of the monthly indexes of industrial production are tied very closely to this source.

3.02 Generally speaking, the CMI covers only the public sector enterprises fully and, at least in principle, private establishments with ten or more employees. Small-scale and

cottage industries, whose employment are less than ten, are not covered by CMI, though these small industries are dominant in the industry of Bangladesh. As for the information of small-scale and cottage industries, Bangladesh Small and Cottage Industries Corporation (BSCIC) conducted two surveys, one concerned with small-scale industries in 1978 and the others concerned with cottage industries in 1979. And for the privately-owned textile units, including handloom factories, Department of Textiles published several data.

3.03 Because of these collections of data originate in different organization, definitions and classifications are different and there are overlapping between these data. In 1983, Government of Bangladesh initiated a series of studies for a Trade and Industrial Policy (TIP) Reform Program and try to integrate various official collections of industrial statistics under this TIP studies. This report thus attempts to basically use adjusted TIP report figures if available.

3.04 Table III-1 presents some selected indicators of industrial activity after the independence. The growth rates of real gross output shows large fluctuations, so that it is difficult to interpret the long term growth trend, but as shown, average annual growth rate of gross output over the last decade (1973/74-1983/84) has been only 5.7%.

3.05 The trend in real value added has been much less satisfactory. The growth rate in value added is only 1% per annum between 1973/74 and 1981/82, in spite of the increase in the quantity of labour and capital inputs to manufacturing.

3.06 In contrast to the 41% growth of gross output between 1973/74 and 1977/78, there was no growth in value added during same period, so that value added as a percentage of gross output declined from 0.50 in 1973/74 to 0.39 in 1977/78 and subsequently to 0.33 in 1981/82. Such a decline in the ratio might be caused primarily by intermediate input prices rising faster than output prices because output prices were controlled

by the government, so that increase of intermediate input prices were not passed on to product prices.

## 2. Structure of Bangladesh Manufacturing

3.07 Table III-2 presents the distribution of manufacturing activity by ownership in 1981-82, showing that the bulk of the employment (64.6%) is in cottage industries and public sector employ only 13.7% of total labour force in manufacturing. But public sector's share of value added is 46.1% of the total. While the value added per establishment in public and large-scale private units are TK 882,000 and TK 28,000 respectively, the value added per worker in the two groups are only TK 28,000 and TK 23,000. It means that public sector could not realize the benefit of economies of scale.

3.08 Table III-3 sets out the sectoral composition of manufacturing for the year of 1981/82, where the broad category of textiles (including cotton, jute, garment and leather) constitutes the largest industry with 33.5% of manufacturing value added, following by food (25%) and chemicals (12.9%). With the denationalisation of jute and textile units after 1982, the share of public sector would since have been considerable reduced in these sectors.

3.09 Structure of manufacturing changed slightly in the last eight years as shown in the table III-4 according to CMI in 1974/75 and 1982/83. The share of tobacco and textiles are decreased during this period, instead of this, the share of machinery and chemicals was increased. It means that value added by nationalized heavy industry have been grown very quickly, so that Bangladesh is having more balanced industrial structure.

## 3. Number of Establishment

3.10 CMI is only one data which accurately shows the trend of the number of establishments in Bangladesh. This informa-



tion, however, has several limitations in estimating the actual number of existing establishments.

1) statistical data on establishments refer only to factory registered under the Factories Act 1934 or Factories Act 1965, in which factory is defined as either the establishment with 20 or more employees and with the aid of power (category A), or the unit with 10 or more employees and with or without the aid of power (category B). As its consequence, most of the small-scale factories and family operated factories are supposed to be excluded from this data.

2) this statistics cover only the factories registered legally with the Chief Inspector of Factories, Ministry of Industry. A large number of unregistered factories are excluded, too.

3) after 1973/74, statistics did not cover handloom factories, though handloom units supposed to represent about one quarter of the total number of existing establishments.

3.11 Keeping such limitations as mentioned above in mind, let us look at Table III-5 which indicate the trend of the number of the registered manufacturing factories in the whole country from 1971/72 to 1983/84. As shown in the Table, its number did not change so large extent. If we compare between 1973/74 and 1983/84, registered factory grown from 3190 to 3827, or only 20% increase. Growth of food processing factory has been fastest among others and textile, tobacco are following, mostly labour intensive and agro-based industries.

#### 4. The Share of Public Sector

3.12 Public sector accounts for about half of total manufacturing value added and engages a fifth of the labour force, as shown in Table III-6. Its most dominant position is in the basic metal, where it has a virtually complete monopoly. Next come textiles and chemicals. Other activities are mainly in private hands. The ranking according to employment share is nearly identical with the ranking by value added.

3.13 The fact that government's share in value added is

bigger than its share in employment is implying that value added per worker is always higher in public sector than private sector, due mainly to the larger amounts of capital equipment available per worker in the public sector. Other reasons have to do with difference in the patterns of public and private involvement. Government dominates the highly capital intensive basic metal and chemical industries, and private sector initiated from labour intensive consumer industries like food processing, garments and handloom.

3.14 But public sector's performance was not satisfactory in the last ten years. They could not contribute to government revenue as expected and sometimes had to receive government subsidy to cover their loss. Table III-7 indicate the performance of public sector corporations.

3.15 To improve the efficiency and performance of public sector enterprises, government announced its New Industrial Policy (NIP) in June 1983. Most important policy change under NIP affecting the public sector have been (1) the disinvestment and reorganization of the public sector units, (2) the capital restructuring and financial rehabilitation of the retained units, (3) pricing reforms. The main aims of this new policy were public sector enterprise should be governed by commercial criteria and given adequate operational autonomy to the extent accepted on the one hand, and on the other hand private sector should be given a greater role within a mixed economy.

3.16 Under the NIP, nearly 110 major public sector units were disinvested during 1982/83-1983/84, including 33 jute mills and 22 cotton textile mills. Forty more units are expected to be disinvested during 1984/85. Two out of six nationalized banks have also been returned to private ownership. For the capital restructure, large amount of debt was converted to equity or grants, and the debt were rescheduled after determining appropriate debt service payments.

## 5. Regional Distribution of Manufacturing

3.17 The picture of the regional distribution of manufacturing obtained from CMI needs to be adjusted for the location of the small-scale and cottage industries. For example, CMI show 69% of all establishment concentrated in Dhaka division and within this 67% in Dhaka district alone. In comparison, of the small-scale industries, 38% are to be found in Dhaka division and 22% in Dhaka district, and in cottage industries, the corresponding figures are only 28% and 13%.

3.18 Table III-8 indicate regional distribution of manufacturing employment and value added after the adjustment which combined 3 sources (CMI in 1976/77, SIS in 1978, CIS in 1979). There were no survey of small and cottage industries in the previous year, we can not analyze the change of regional distribution during the last decades. But from Table III-8 we can say there is not so seriously high concentration of manufacturing in the specific region so far.

3.19 Of course, government recognize the problems of widening income disparity among regions which caused by uneven development of manufacturing. The government thus started such a development strategy as to promote the growth of small-scale and cottage industries in private sector.

## 6. Small and Cottage Industry in Bangladesh

3.20 Small-scale industry in East Pakistan period develop so slowly because Pakistan government did not pay due attention on it. After the independence, government of Bangladesh issued the nationalization policy and private sector were guided to develop small and cottage industry. In October 1972, government formed two institutions which would promote small-scale industry. One was Small-scale Industries Corporation (BSIC) and the other one was Bangladesh Shilpa (=industry) Bank. The First 5 Year Plan (1973/74-1977/78) gave very high priority on small and cottage industry.

3.21 Though small-scale and cottage industry carried out very important role in the Bangladesh economy, there were no reliable, comprehensive information and time series data on small-scale and cottage industries. So that Bangladesh Small-scale and Cottage Industries Corporation (BSCIC) conducted a survey on small-scale industry in 1977/78, and it conducted another survey on cottage industry in 1981. In case of small-scale industry, survey could cover about 85% of all registered enterprises and the survey of cottage industry covered except handloom, jamdani and sericulture industries. So far we could not have other information on these sector, this report have to depend on these survey reports.

3.22 Table III-9 shows general statistics of small-scale industries which has capital stock of no more than TK 2.5 million and be employing at least 10 workers if the firm uses electric power, or at least 20 workers if it does not use power.

3.23 According to the Table III-9, total number of small-scale units is 24,005 which share about 6.9% of total manufacturing units in Bangladesh and the share of employment is about 14% of the total employment. In case of value added, small-scale industries produce nearly 17% of total value added of manufacturing.

3.24 Classified by the type of small-scale industry, it is found that food and allied products is the largest industry. It is contributing 72.3% of total units, 35.9% of the fixed investment and 54.9% of all employment in small-scale industry. Next is basic metal industries and textile, wearing apparel is the third largest industries.

3.25 Table III-10 shows general statistics of cottage industries which is carried out mainly by the family member and employ less than 10 persons if the firm uses electric power, or maximum 20 persons without power. This survey did not include handloom industry though number of units in handloom section

share 35% of the total units, 30.9% of total employment of manufacturing in Bangladesh.

3.26 Among the cottage industry, Food processing, Textile and apparel, Wood products are three main industries sharing 75.6% of total units, 66.3% of fixed investment and 73.9% of total working persons.

## 7. Employment and Wage Structure

3.27 The information of the sectoral distribution of industrial employment target from census and labour force survey and number of workers in major industries can get from "Chief Inspector of Factory and Establishments".

3.28 Table III-11 shows number of workers in major industries. Among industries, the largest contributor to employment is jute mills (63.7%), following textile industry (29.0%), engineering (11.0%), sugar mills (5.2%). So far this statistics covered only major industries, these employment were mostly public sector's employment.

3.29 BBS is only one information source about wages in manufacturing. Table III-12 shows nominal and real wage rate in the last 10 years. In case of real wage rate, total manufacturing wage rate in 1981/82 did not reach at the level of pre-independent base year in 1969/70.

## 8. Domestic Investments in Manufacturing

3.30 Domestic Investment in Manufacturing can divide into two parts. One is public sector's investments and the other is private investments. About public sector's investments, we can use government expenditure on industry under The Annual Development Programme (ADP) though this figures is not exactly as same as investments. As for private investments, there is no official data. Planning Commission of the government set up private investments programme in every Five Year Plan, but this

is a kind of target or expectation of the government.

3.31 Table III-13 shows public and private investments in real term at 1973/74 prices. The table clearly indicate that private investments increased from 1976/77 when Ziaur Rahman government started liberalization policy and it entered another stage in 1983/84 when Ershad government promoted dis-investment policy and geared up more opened economic policies.

## Chapter IV

### Problems and Issues in the Bangladesh Economy

#### 1. The Second Five Year Plan, 1980-85

4.01 The Second Five Year Plan was launched in July 1980. But with the experience of two years and a perception of the prospects for the third year, government had to change the Plan and published new revised Second Five Year Plan in May 1983. Several reasons were mentioned in the revised Plan. First, terms of trade was worsen because of the prices of exported primary products declined and the prices of petroleum, manufactured goods and machineries shot up substantially. Second, official development assistance became stagnant in nominal terms. Thyer had to be severe constriction of imports and this had direct adverse impact on government revenue which was heavily dependent on import trade.

4.02 With availability of lesser resources, both of domestic and foreign, the level of investment programme became lower and production targets also needed substantial revisions. In the sectoral allocations, the rural and agricultural sector were given more emphasis and other sectors including industry had to make some sacrifice. As a result, average annual GDP growth

rate reduced from 7.2 % in the original plan to 5.4 % in the revised plan and the growth rate of manufacturing sector reduced from 8.6 % to 8.4 %.

4.03 Since agriculture has been accorded highest priority in the revised Plan, the industrial programme has been oriented towards supporting agricultural development. However, overall resource constraints will limit investment in the industrial sector and require it to be more selective. Therefore, the Plan envisages a modest industrial growth, although for the long term structural change and sustained growth of the economy, a faster development of this sector is extremely desirable. On this background, government set the following objectives for guiding the investment decisions.

- 1) supporting the rapid expansion of the food and agriculture sector through the establishment of agro-support and agro-based units,
- 2) creating employment opportunities with a special emphasis on rural employment through promotion of rural industries,
- 3) improving the balance of payments position through accelerated growth of export-oriented and importsubstitution industries with focus on maximum use of labour and indigenous resources,
- 4) improvement of capacity utilization of existing industrial units for quicker increase of output with little or marginal investment.

4.04 In case of private investment policy, it means substantial shift of economic system in Bangladesh from "mixed economy" to "capitalism". Under the new policy, only six basic sectors are reserved for the public sector and thirteen sectors have been placed in the area where both public and private investment are admissible. Reserved sectors are 1) defence industry, 2) atomic energy, 3) air transport, 4) telecommunication, 5) generation and distribution of electricity and 6) forest

extraction.

4.06 Other policy measured and procedured include; 1) to support the import substitution industries, so that import of some industrial goods are banned for protection and promotion of local industries, 2) to liberaliz sanctioning procedure for private investment. The number of industries which does not need any investment permission will be increased and procedures for government sanction have also been streamlined, 3) to promote export-oriented industries (industries with prospect of export of 80 % of their production), though priority on it is lower than import substituted industries. Towards this end, additional monetary and fiscal incentives, such as discount of 1 % point for interest for investment loans, banking credit upto 90 % of working capital requirement are provided, 4) to encourage foreign private investment, particularly in new enterprises requiring specific foreign technology.

4.07 About the policy on public sector, it has two purposes. One is to promote private activities though disinvestment of public enterprises and the other one is to reorganize the public sector as following way;

1) public sector's enterprises will be governed by commercial criteria and gived adequated operational autonomy including their prices,

2) public sector corporation will be given subsidies, if losses accrue due to government action or the adoption of non-commercial performance,

3) public sector corporation will have capital restructuring and financial rehabilitation facilities, such as, to convert their debts in to equity or grant, to reschedule the debts.

## 2. Some Issues on Development Strategies

4.08 There are two outstanding issues on development strategies that have not been completely resolved. 1) the problems



on heavy dependance on foreign aid, 2) the future role of the public sector in manufacturing.

4.09 The opinions concerning to these issues among the economists are not the same. One group insists that resources constraints is the most serious problems facing Bangladesh economy and obstacle to hinder the further development of the manufacturing. Thus they claim that heavy dependance on foreign aid is inevitable for developing countries like Bangladesh, so the public sector enterprises in manufacturing should be set up where private investment can not afford and when the enterprises can make profit, they should disinvest it to private sector.

4.10 The other group insisted that disinvestment and denationalisation policy can not accelerate industrial development in Bangladesh. They argue that government have to seek national self-reliance and to keep public sector as the leading sector as before, for privatization policy may cause the income discrepancy between rural and urban population.

4.11 Government of Bangladesh is still preparing the Third Five Year Plan, 1985-90, though the plan period started already. It is not clear that government adopt what kind of recommendations in the new Plan. But, from various statements of the concerning officials, the Third Plan will probably accept the opinion of the first group.

Table I - 1 Annual Growth Rate of the GDP: 1960/61-1983/84

(Unit: %)

	Pakistan Period <sup>(1)</sup>		Bangladesh Period <sup>(2)</sup>					
	2nd Plan 60/61-64/65	3rd Plan 65/66-69/70	1st 5 Year Plan 1973/74-1977/78		2 Year Plan 1978/79-1979/80		2nd 5 Year Plan <sup>(3)</sup> 1980/81-1984/85	
	Actual	Actual	Target	Actual <sup>(4)</sup>	Target	Actual <sup>(5)</sup>	Target	Actual <sup>(6)</sup>
Agriculture	3.1	3.3	4.6	3.7	4.1	1.8	5.0	4.2
Manufacturing	5.8	7.1	7.1	- 0.3	7.3	2.3	8.4	3.3
Large Scale	9.4	10.8	-	-	-	-	-	-
Small Scale	2.7	2.6	-	-	-	-	-	-
Construction	42.1	- 4.3	12.1	7.8	17.3	18.0	4.8	- 1.6
Electricity,								
Gas & Water	45.1	11.2	11.0	1.3	15.8	11.8	16.0	15.7
Transportation & Communication	4.2	5.3			5.7		5.7	2.0
Trade	4.5	4.3	6.2	6.0	5.5	4.7	5.7	2.0
Banking & Insurance	20.1	1.9			8.2		5.7	5.6
Other Service	3.0	3.1			5.2			
GDP (at factor cost)	4.6	3.3	5.5	4.0	5.6	3.5	5.4	3.7
Per Capita GDP	2.2	0.9	2.5	1.6	2.8	1.4	3.5	1.1

notes: (1) 1960/61-1969/70: at 1959/60 market price.

(2) 1973/74-1984/85: at 1972/73 market price.

(3) Revised 2nd 5 Year Plan. (4) Over benchmark at 1972/73. (5) Revised.

(6) 1980/81-1982/83 only. 1982/83 was estimated.

**sources:**

IBRD, Bangladesh: Development in a Rural Economy, July 1974

Planning Commission, The Two-Year Plan 1978-80, March, 1978

Planning Commission, The Second Five Year Plan, 1980-85 (Revised), May, 1983

Mohiuddin Alamgir & L. Berlage, Bangladesh: National Income and Expenditure, 1949/50-1969/70. BIDS, 1974

Table I - 2 Major Physical Target and Achievement of Manufacturing

Commodity	Unit	1st 5 Year Plan		2 Year Plan		2nd 5 Year Plan	
		Target	Achieved	Target	Achieved	Original Target	Revised Target
		(1977/78)	(1977/78)	(1979/80)	(1979/80)	(1984/85)	(1984/85)
Jute Textile	1000 tons	766	547	667	538	736	650
Textile Yarn	Lakh lbs.	1,975	1,069	1,641	1,129	2,844	1,830
Cloth (1)	Lakh yds.	1,910	845	1,161	924	1,638	1,486
Fertilizer (2)	1000 tons	700	264	456	442	1,428	1,037
Pulp, Paper & Newsprint	"	100	61	67	48	123	123
Sugar	"	148	175	160	93	216	200
Engineering	Lakh Taka	-	-	-	-	400	-
Ship	1000 M.Tons	-	-	-	-	31	-
Steel (ingot)	"	450	111	133	133	225	225
Cement	Lakh M.Tons	10	3.4	3.5	3.4	5.4	4.5

notes: (1) Mill made cloth only.

(2) Include Urea, TSP and Ammonia Sulphate.

source: Planning Commission, The Two Year Plan, 1978-80.

Planning Commission, The Second Five Year Plan, 1980-85, May, 1980

Planning Commission, The Second Five Year Plan, 1980-85 (Revised), May, 1983

Table II - 1 Growth of the GDP by Sector<sup>(1)</sup> in Constant Prices, 1959/60-1983/84

(Units: Millions Taka, %)						
Sector	1959/60	1964/65	1969/70	1974/75	1979/80	1983/84 <sup>(2)</sup>
Agriculture	9,042	10,485	12,286	28,537	33,136	38,288
(Share)	(61.3)	(57.1)	(57.1)	(56.4)	(52.1)	(52.9)
Manufacturing	912	1,210	1,696	5,481	7,210	7,937
(Share)	(6.2)	(6.6)	(7.9)	(10.8)	(11.3)	(11.0)
Large-scale	406	633	1,041	3,031	4,095	4,452
(Share)	(2.8)	(3.4)	(4.8)	(6.0)	(6.4)	(6.2)
Small-scale <sup>(3)</sup>	506	577	655	1,833	3,115	3,485
(Share)	(3.4)	(3.2)	(3.1)	(4.8)	(4.9)	(4.8)
Others	4,785	6,656	9,245	16,607	23,240	26,178
G D P <sup>(4)</sup>	14,739	18,351	21,531	50,625	63,586	72,403

notes: (1) 1959/60-1960/70 at the 1959/60 prices in millions of Rupee.

1974/75-1983/84 at the 1972/73 prices in millions of Taka.

(2) Provisional.

(3) Including cottage industries.

(4) At factor cost.

sources: IBRD, Bangladesh: Development in a Rural Economy, 1974

IBRD, Bangladesh: Economic and Social Development Prospects, 1985.

Table II - 2 Annual Growth Rate of the GDP by Sector<sup>(1)</sup> in Constant Prices, 1960/61-1983/84

(Unit: %)

Sector	1960/61-64/65	1965/66-69/70	1970/71-74/75 <sup>(2)</sup>	1975/76-79/80	1980/81-83/84 <sup>(3)</sup>
Agriculture	3.1	3.3	1.6	3.5	3.6
Manufacturing	5.8	7.1	3.7	5.8	2.5
large-scale	9.4	10.8	4.3	6.6	2.2
small-scale	2.7	2.6	2.1	4.9	2.9
G D P <sup>(4)</sup>	4.6	3.3	- 0.1	4.7	3.3

notes: (1) 1960/61-1969-70 at the 1959/60 Prices.

1970/71-1983/84 at the 1972/73 Prices.

(2) Provisional estimates by Bangladesh Planning Commission.

(3) 1983/84 provisional estimates.

(4) At factor costs.

sources : IERD, Bangladesh: Development in a Rural Economy, 1974.

IERD, Bangladesh: Economic and Social Development Prospects, 1985.

Planning Commission, Memorandum for the Bangladesh Aid Group, 1982/83.

Table II - 3 Employed Population (10 Years and Over) by Industry, 1961-1983/84

	(Units: thousand persons, %)				
	Employed Population <sup>(1)</sup>			Growth Rate <sup>(2)</sup>	
	1961 Census	1974 Census	1983/84 L F S	1961 to 1974	1974 to 1983/84
Agriculture, Fisheries (share)	14,239 (84.6)	16,839 (78.7)	16,389 (58.6)	1.3 -	- 0.3 -
Mining, Quarrying	1	2	48	3.0	37.4
Manufacturing (share)	810 (4.8)	1,026 (4.8)	2,108 (7.5)	1.8 -	7.5 -
Electricity, Gas, Water	11	8	107	- 2.5	29.6
Construction	92	36	321	- 7.2	24.5
Trade, Hotels	619	841	3,271	2.4	14.6
Comm. & Transp.	204	351	1,209	4.3	13.2
Finance, Services	10*	62	178	14.7	11.1
Community Services	774	2,242	3,250	8.5	3.8
Not Reported	68	0	1,089	-	-
<b>Total</b>	<b>16,828</b>	<b>21,408</b>	<b>27,972</b>	<b>1.9</b>	<b>2.7</b>

notes: (1) Census figures in 1961, 1974 were adjusted. LFS=Labour Force Survey.

(2) Annual average growth rate.

source: Bangladesh Bureau of Statistics (BBS), Statistical Yearbook of Bangladesh, 1983/84.

Table II - 4 Changes in Import Structure, 1973/74-83/84

	(Unit: %)				
	1973/74	1980/81	1981/82	1982/83	1983/84 <sup>(1)</sup>
Food, Beverage, Oil & Fat	49.2	14.6	22.2	23.4	28.8
Crude Materials	6.5	8.2	6.4	7.8	6.5
Mineral Fuels	8.0	22.2	18.4	11.8	14.4
Chemical & Drugs	7.8	10.1	11.8	11.4	7.5
Manufactured Goods					
classified by materials	13.1	18.8	20.7	17.9	18.4
Machinery & Transport Equip.	14.1	24.3	18.5	25.6	19.9
Miscellaneous					
Manufactured Goods	1.3	1.6	1.8	1.8	2.3
Others	-	0.2	0.2	0.3	2.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

note: (1) Estimated

sources:

- (1) Ministry of Finance, Bangladesh Economic Survey, 1983/84  
(for the year of 1973/74, 1983/84)
- (2) B.B.S., Monthly Statistical Bulletin, Aug., 1984  
(for the year of 1980/81-1982/83)

Table II - 5 Changes in Export Structure, 1973/74-1983/84

	(Unit: %)				
	1973/74	1980/81	1981/82	1982/83	1983/84 <sup>(1)</sup>
Raw Jute & Mesta	33.0	16.7	16.2	16.0	14.3
Jute Goods	53.2	51.6	46.5	46.6	44.4
Tea	3.6	5.7	6.1	6.8	8.7
Leather, Hides & Skins	5.9	8.0	10.1	8.5	10.4
Frozen Foods	2.8	5.6	8.4	10.5	9.4
Naptha & Furnace Oil	-	6.8	6.8	4.5	3.1
Chemicals, Paper	1.0	1.3	1.8	1.9	2.2
Others	0.5	4.3	4.1	5.2	7.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

notes: (1) Estimated

source: Ministry of Finance, Bangladesh Economic Survey, 1983/84



Table II - 6 The Role of Industrial Sector in the Bangladesh Economy

Items	Unit	1973/74	1978/79	1983/84 <sup>(6)</sup>
Population <sup>(1)</sup>	million persons	77.0	86.9	98.0
G D P (current price) <sup>(2)</sup>	billion Taka	68.7	163.9	295.2
G D P (1972/73 price)	billion Taka	48.9	62.8	72.4
G N P per capita (current p.)	Taka	892	1936	3211
Gross Fixed Capital Formation	% of GDP <sup>(3)</sup>	7.9	12.8	15.2
Agricultural Production	% of GDP <sup>(3)</sup>	58.4	52.9	45.7
Manufacturing Production	% of GDP <sup>(3)</sup>	6.0	9.2	9.6
Import	% of GDP <sup>(3)</sup>	10.3	12.8	19.5
Manufactured Import <sup>(4)</sup>	% of total import	39.3	64.2	59.0
Export	% of GDP <sup>(3)</sup>	4.2	5.6	6.4
Manufactured Export <sup>(5)</sup>	% of total export	64.3	70.9	76.3
Employment in Manufacturing Sector	% of total employment	4.8	n.a.	7.5

Notes: (1) Estimated population by BBS(1973/74, 1983/84) and by Planning Commission.

(2) GDP at factor cost. (3) GDP at market prices.

(4) Manufactured Import-exclude Food (code no. 0), crude materials (2) Mineral fuels (3) from total import.

(5) Manufactured Export-exclude raw jute, frozen food from total export.

(6) Provisional.

Source: B.B.S., Statistical Yearbook of Bangladesh, 1983/84

B.B.S., Monthly Statisticals Bulletin, various issues, M. of Finance, Bangladesh Economic Survey, 1983/84.

Table III - 1 Value Added and Gross Output of Manufacturing, 1973/74-1983/84 (at 1973/74 Price)

(Units: Million of Taka, %)

	Gross Output	Growth rate	Value Added	Growth rate	Capital Stock	Capital-Gross Output-ratio
1973/74	7,729	-	3,864	-	6,980	0.90
74/75	8,154	5.5	3,157	- 18.3	7,151	0.88
75/76	9,173	12.5	2,899	- 8.2	7,470	0.81
76/77	9,797	6.8	3,503	20.83	7,954	0.81
77/78	10,914	11.4	3,874	10.6	8,657	0.79
78/79	11,294	4.4	4,311	11.28	9,586	0.84
79/80	11,861	4.1	4,294	- 0.5	10,652	0.90
80/81	12,597	6.2	4,354	1.4	11,569	0.92
81/82	12,672	0.6	4,172	- 4.2	12,354	0.97
82/83	11,849	- 6.5	-	-	13,083	1.10
83/84	13,460	13.6	-	-	13,728	1.02

source: IBRD, Bangladesh: Economic and Social Development prospects, 1985

Table III - 2 Structure of Bangladesh Manufacturing, 1981/82

	No. Units	Employment (1000)	Share (%)	Value Added (M. Taka)	Share (%)
Public Sector	303	310.2	13.7	8,680	46.1
Private Sector	425,089	1,958.5	86.3	10,156	53.9
Large Scale Units	2,425	93.2	4.1	2,139	11.4
Small Scale Units	24,217	400.0	17.6	3,205	17.0
Cottage Units	398,447	1,465.3	64.6	4,812	25.5
with handloom	248,447	765.3	33.7	2,871	15.2
without handloom	150,000	700.0	30.9	1,941	10.3
<b>Total</b>	<b>425,392</b>	<b>2,268.7</b>	<b>100.0</b>	<b>18,836</b>	<b>100.0</b>

source: W.I. Abraham, Features of Bangladesh Manufacturing Industries, 1984

Table III - 3 Sectoral Distribution of Manufacturing Establishments, Workers and Value Added (1981-82)

Division	Public Sector			Private Sector			Total Industry				
	No.	No.	Value	No.	No.	Value	No.	No. Workers		Value Added	
	Units	Workers ('000)	(Tk.M)	Units	Workers ('000)	(Tk.M)	Units	( '000)	%	(Tk.M)	%
Food, beverages, tobacco	65	21.4	690.1	74,294	421.1	3,527.4	74,359	442.5	28.2	4,217.5	25.0
Textiles, (1) garments and leather	134	245.2	4,364.6	45,812	266.1	1,289.6	45,946	511.3	32.6	5,654.2	
33.d5 Wood, furniture	10	1.9	52.5	71,673	288.0	839.6	71,683	229.9	14.7	892.1	5.3
Paper, printing	9	8.0	294.1	2,912	22.5	456.8	2,921	30.5	1.9	750.9	4.4
Chemicals	32	16.4	1,557.2	2,128	26.8	616.5	2,160	43.2	2.7	2,173.7	12.9
Non-metallic mineral products	6	2.3	159.6	18,796	94.5	331.7	18,802	96.8	6.2	491.3	2.9
Basic metal	11	5.7	1,078.7	30	3.3	42.4	41	9.0	0.6	1,121.1	6.6
Metal products	36	9.3	483.3	25,807	110.4	811.7	25,843	119.7	7.6	1,295.0	7.7
Other, handicrafts	-	-	-	33,637	85.8	299.1	33,637	85.8	5.4	299.1	1.8
<b>Total</b>	<b>303</b>	<b>310.2</b>	<b>8,680.1</b>	<b>275,089</b>	<b>1,258.5</b>	<b>8,214.8</b>	<b>275,392</b>	<b>1,568.7</b>	<b>100.0</b>	<b>16,894.9</b>	<b>100.0</b>

Note: (1) Excluding handlooms.

Source: Same as III - 1.

Table III - 4 Value Added<sup>(1)</sup> Composition of Manufacturing and Its Contribution to the Growth during 1974/75-1982/83, classified by Industry

		(Units: Million Taka, %)					
ISIC	Industries	1974/75	(%)	1982/83	(%)	1974/75-82/83	(%)
311	Food Manufacturing	224.7	11.9	638.3	12.9	413.6	13.5
313	Beverages	20.4	1.1	55.9	1.1	35.5	1.2
314	Tobacco	411.0	21.8	626.8	12.6	215.8	7.0
321	Textiles	706.4	37.5	1,607.1	32.4	900.7	29.3
322	Wearing Apparels, Footwear						
323	Leather						
331	Wood and Cork	22.6	1.2	16.1	0.3	- 6.5	- 0.2
332	Furniture	1.0	0	20.5	0.4	19.5	0.6
341	Paper and Pulp	2.1	0.1	3.1	-	1.0	-
342	Printing, Publishing	36.7	1.9	120.6	2.4	83.9	2.7
351	Industrial Chemical	191.4	10.3	703.2	14.2	511.8	16.7
352	Other Chemical						
353	Petroleum	5.6	0.3	16.1	0.3	10.5	0.4
354	Other Petroleum						
355	Rubber Products	0.1	0	11.4	0.2	11.3	0.4
369	Non-metallic Product	32.5	1.7	117.5	2.4	85.0	2.8
371	Iron and Steel	112.8	6.0	163.2	3.3	50.4	1.7
372	Non-Ferrous Metal	29.1	1.5	23.4	0.5	- 5.7	- 0.2
381	Metal Products						
382	Machinery	10.5	0.6	632.5	12.8	622.0	20.2
383	Electrical Machinery	19.2	1.0	107.3	2.2	88.1	2.7
384	Transport Equipments	25.8	1.4	29.1	0.6	3.3	0.1
390	Other Manufacturing	15.1	0.8	12.7	0.3	- 2.4	- 0.1
Total		1,884.8	100.0	4,957.6	100.0	3,072.8	100.0

Notes: (1) at 1972/73 constant price.

Source: Calculated from Statistical Yearbook of Bangladesh, 1983/84

Table III - 5 Number of Registered Factories by Major Industrial Groups

Name of industry	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
Food manufacturing	462	484	543	449	473	572	614
Beverage	7	7	5	6	6	6	9
Tobacco	47	47	24	28	28	25	27
Textile <sup>(2)</sup>	553	1166	450	464	492	516	504
Foot wear other wearing apparels and madeup textile	208	213	190	204	204	206	170
Wood cork and allied products	15	20	20	25	23	26	29
Furniture and fixture	68	71	69	59	59	59	67
Paper and paper products	30	32	47	37	37	40	43
Printing, publishing & allied industries	139	140	140	148	148	141	154
Leather and leather products	192	202	200	158	146 <sup>(1)</sup>	147	136
Rubber products	5	6	8	3	3	3	16
Chemical and chemical products	764	733	759	617 <sup>(1)</sup>	600 <sup>(1)</sup>	576	536
Petroleum and coal products	5	4	4	3	3 <sup>(1)</sup>	3	4
Non metallic mineral products	56	54	61	57	61 <sup>(1)</sup>	66	72
Basic metal industries	46	43	45	44	44	48	48
Metal products except machinery	254	253	252	215	221 <sup>(1)</sup>	228	228
Machinery except electrical	88	93	107	94	97	114	113
Electrical machinery and apparatus	29	32	36	37	38	38	55
Transport equipments	63	60	79	54	51 <sup>(1)</sup>	39	36
Other manufacturing industries	165	150	151	124	120 <sup>(1)</sup>	123	143
<b>Total</b>	<b>3,196</b>	<b>3,810</b>	<b>3,190</b>	<b>2,826<sup>(1)</sup></b>	<b>2,854<sup>(1)</sup></b>	<b>2,976</b>	<b>3,005</b>

Notes: (1) Where there are no data inscribed for the years in between are either for no census conducted or for no publication/information available for those years.

(2) Figures for handloom factories are not included in 1973-74 and onwards.

Source: B.B.S., Statistical Yearbook of Bangladesh, 1983/84.

Table III - 5 Number of Registered Factories by Major Industrial Groups (cont.)

Name of industry	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84
Food manufacturing	620	611	643	669	647	787
Beverage	10	9	9	9	6	9
Tobacco	27	28	29	30	33	120
Textile	526	530	540	565	567	684
Foot wear other wearing apparels and madeup textile	171	106	109	108	111	140
Wood cork and allied products	29	22	23	26	30	48
Furniture and fixture	68	65	66	86	70	65
Paper and paper products	43	39	41	44	42	44
Printing, publishing & allied industries	155	144	149	157	183	188
Leather and leather products	137	137	141	142	147	151
Rubber products	16	30	31	30	49	60
Chemical and chemical products	545	525	534	561	515	554
Petroleum and coal products	4	3	3	3	4	6
Non metallic mineral products	72	77	77	81	74	76
Basic metal industries	49	48	48	53	54	73
Metal products except machinery	236	265	305	326	292	323
Machinery except electrical	116	108	108	123	140	193
Electrical machinery and apparatus	56	56	60	77	65	85
Transport equipments	37	32	34	47	68	71
Other manufacturing industries	147	174	175	170	117	150
<b>Total</b>	<b>3064</b>	<b>3009</b>	<b>3125</b>	<b>3307</b>	<b>3214</b>	<b>3827</b>

Notes: (1) Where there are no data inscribed for the years in between are either for no census conducted or for no publication/information available for those years.

(2) Figures for handloom factories are not included in 1973-74 and onwards.

Source: B.B.S., Statistical Yearbook of Bangladesh, 1983/84.

Table III - 6 Public Sector Shares in Value Added and Employment, 1981/82

	(Unit: %)	
	Share in Value Added	Share in Employment
1. Basic metal	96.2	63.3
2. Textiles	77.2	48.0
3. Chemicals	71.6	38.0
4. Paper, printing	39.2	26.2
5. Metal products	37.3	7.8
6. Non-metallic mineral products	32.5	2.4
7. Food	16.4	4.8
8. Wood, furniture	5.9	0.8
9. Other, handicrafts	-	-
Total	51.4	19.8

Source: same as III - 2

Table III - 8 Regional Distribution of Manufacturing

	(Unit: %)			
	Value Added	Employment	Population	Urban Population
Dhaka Division	40.9	39.5	30.1	39.7
Chittagong Division	33.5	24.6	25.9	25.6
Khulna Division	12.1	17.6	19.7	18.6
Rajshahi Division	13.4	18.2	24.3	16.1
Total	100.0	100.0	100.0	100.0

Source: W.I. Abraham, Features of Bangladesh Manufacturing Industries: Some New Perspectives, 1984



Table III - 7 Performance Indicators of Public Industrial Corporations<sup>(1)</sup>

(Units: Million Taka, %)

	Net Profits <sup>(2)</sup> (All Corporations)	Net Profits (Excluding BJMC)	Profit-Sales Ratio (All Corporations)	Profit-Sales Ratio (Excluding BJMC)	Net Borrowing from the Banking System % Change
1973/74	5	229	-	7.3	
1974/75	- 271	100	- 4.4	2.4	
1975/76	- 507	- 142	- 6.1	- 2.6	
1976/77	- 759	- 241	- 8.2	- 4.0	
1977/78	1,081	- 132	- 0.8	- 1.6	
1978/79	- 489	96	- 3.6	1.1	
1979/80	879	- 186	5.3	- 1.8	68.6
1980/81	586	248	3.0	1.9	30.2
1981/82	- 904	- 249	- 4.6	- 1.9	31.6
1982/83	912	707	5.1	5.8	- 28.1
1983/84	717	652	3.2	3.8	0.6

Notes: (1) In this Table, net profits are given for total public manufacturing corporations with and without B. Jute Mills Corp.

The reason is that because of world market conditions, the profitability of BJMC shows large fluctuations, which have more to do with differential price changes between raw jute and jute products than with its management.

(2) Net pre-tax profits. Negative sign denotes net losses.

Source: Same as III-1.

Table III - 8 Regional Distribution of Manufacturing

(Unit: %)

		Value Added	Employment	Population	Urban Population
Dhaka	Division	40.9	39.5	30.1	39.7
Chittagong	Division	33.5	24.6	25.9	25.6
Khulna	Division	12.1	17.6	19.7	18.6
Pajshahi	Division	13.4	18.2	24.3	16.1
Total		100.0	100.0	100.0	100.0

Source: W.I. Abraham, Features of Bangladesh Manufacturing Industries:  
Some New Perspectives, 1984

Table III - 9 Genral Statistics of Small-scale Industries in Bangladesh, 1978

(Units: Million Taka, 1000 Persons)

	No. of Units	Fixed Investment	All Employees	Wages, Salarie (All Workers)	Total Production
Food & Allied Products	17,358	1,182.8	223.5	440.2	2,236.5
Textile, Wearing Apparels and Leather Products	1,391	145.9	18.9	80.7	461.2
Wood & Wood Products	886	84.9	12.2	48.3	136.0
Paper & Paper Products	1,092	147.7	11.0	32.8	195.4
Chemicals	572	68.6	6.7	27.3	270.4
Non-Metallic Mineral Products	218	23.8	8.2	22.3	113.1
Basic Metal Industry	1,743	158.3	31.4	121.3	226.2
Fabricated Metal	646	50.8	8.3	21.8	169.4
Others	144	4.6	1.7	7.0	4.6
<b>Total</b>	<b>24,005</b>	<b>3,291.4</b>	<b>321.9</b>	<b>801.7</b>	<b>4,214.1</b>

Source: BSCIC; Survey Report on Small Industries of Bangladesh, 1982

Table III - 10 General Statistics for Cottage Industries in Bangladesh, 1982

(Units: Lakh <sup>(1)</sup> Taka, 1000 persons)					
	No. of Units	Fixed Investment	All Workers	Value Added <sup>(2)</sup>	Sale Value
Food, Beverage, Tobacco	84,749	16,737.3	232.4	24,922.0	34,707.6
Textile, Wearing Apparels					
Leather	87,906	5,410.5	229.4	11,990.9	19,416.9
Wood & Wood Products	70,787	4,570.8	215.4	12,569.8	19,609.4
Paper, Printing, Publishing	1,742	1,484.0	7.6	1,572.4	2,171.7
Chemicals	1,363	299.7	5.1	1,314.9	1,696.8
Non-Metal Products	18,546	1,529.1	83.1	2,972.8	5,129.8
Fabricated Metal Products					
Machinery & Equipment	23,191	3,222.4	60.1	6,339.2	9,302.7
Others	33,460	2,413.0	83.6	4,636.3	7,584.1
<b>Total</b>	<b>321,743</b>	<b>35,666.8</b>	<b>916.8</b>	<b>66,318.2</b>	<b>99,619.0</b>

Notes: (1) lakh=100,000

(2) Production Cost (excluding Cost of Raw materials)

Source: BSCIC, Cottage Industries of Bangladesh; a Survey, 1983

Table III - 11 Number of Workers in Major Industries

Industry	Number of workers									
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1. Cotton textiles	59700	61000	65000	73500	60118	63461	66299	74491	75392	77070
2. Jute mills	169300	179000	180000	192200	178612	189512	200766	210847	234585	270555
3. Sugar factories	17700	17700	17544	16950	18994	23008	23008	17848	15554	23109
4. Cement, lime and potteries	1500	1500	1500	2000	2000	2614	2934	1796	1937	2014
5. Glass factories	2600	3000	3000	3000	3000	3500	3500	3614	3953	4327
6. Match factories	11350	11500	11500	10050	12512	14918	15332	9556	10414	10749
7. Papermills	5250	5500	6000	6750	6750	7020	8530	9332	7660	7384
8. Engineering	42400	41000	41000	41500	67415	89639	99639	44894	45563	48711
<b>Total</b>	<b>309800</b>	<b>319500</b>	<b>325500</b>	<b>345950</b>	<b>349401</b>	<b>384552</b>	<b>420888</b>	<b>428552</b>	<b>395058</b>	<b>443919</b>

Source: Chief Inspector of Factories and Establishments.

Table III - 12 Nominal and Real Wage Rate of Industrial Workers (1969/70=100)

	1973/74		1981/82	
	Nominal	Real	Nominal	Real
Food Manufacturing	146.42	54.58	459.5	70.0
Beverage	168.48	62.80	487.5	74.3
Tobacco	179.92	80.36	401.2	100.0
Textile	180.94	67.45	541.4	82.5
Footwear and Wearing Apparels	216.22	80.60	615.4	93.8
Wood, Cork and Allied Products	187.71	69.97	584.9	89.2
Furniture	218.90	81.60	574.3	87.6
Paper and Paper Products	131.97	49.19	497.1	75.8
Printing, Publishing	182.86	68.16	477.8	72.8
Leather and Leather Products	166.79	62.17	434.2	66.2
Rubber Products	-	-	789.2	120.3
Chemicals	-	65.59	789.2	85.1
Petroleum and Coal	242.66	90.45	805.0	122.7
Non-metallic Mineral Products	186.84	69.65	621.6	94.8
Basic Metal	212.67	79.27	675.2	102.9
Metal Products	203.41	75.82	431.1	65.7
Machinery	187.86	70.03	545.8	83.2
Electrical Machinery	184.64	68.83	599.7	91.4
Transport Equipments	134.63	50.18	516.7	99.6
Miscellaneous	270.40	53.63	712.2	104.6
<b>Total</b>	<b>177.01</b>	<b>65.98</b>	<b>539.5</b>	<b>82.2</b>

Source: Statistical Yearbook of Bangladesh, 1983/84

. Table III - 13 Manufacturing Investment, 1973/74-1983/84  
(at 1973/74 Prices)

(Unit: Million Taka)

	Public Investment	Private Investment	Total Investment
1973/74	525.0	81.0	606.0
74/75	431.5	88.5	519.8
75/76	605.7	88.2	693.9
76/77	623.6	270.4	894.0
77/78	763.8	392.0	1,155.8
78/79	1,088.9	351.7	1,440.6
79/80	1,172.3	478.8	1,651.1
80/81	950.5	634.0	1,584.5
81/82	879.1	648.9	1,528.0
82/83	676.2	876.2	1,552.6
83/84	639.8	905.6	1,545.4

source: IERD, Bangladesh: Economic and Social Development prospects,  
1985.

PART III      SRI LANKA



# Industrial Policy and Economic Structure in Sri Lanka

Hisashi Nakamura

- I. Introduction
- II. Change of Industrial Policy Since Independence
- III. Development of Manufacturing Sector
- IV. Foreign Trade of Industrial Products

## I. Introduction

The social formation of Sri Lanka has been diversified in the long historical process of the interaction with Indian civilization for more than two thousand years and with Western colonial powers since the 16th century. The diversified social life has been woven with the co-existence of multi-ethnic population, many religious organisations, several language streams and cross-cultural activities though the size of the country (65,610 square kilometres) is much smaller than Hokkaido island of Japanese archipelago (Table A). The geographical location of Sri Lanka in the Indian Ocean has given the advantage to the island to have close links with both civilizations of the West and East through sea routes in addition to the neighbouring sub-continent with which it shares many of its institutions, literature, technology, arts, crafts, customs, laws, beliefs and so on.

Mainly from the early 19th century the commoditization of the resources in the West Zone of Sri Lanka began through the penetration of the market mechanism in the midst of the traditional subsistence economy under the British Colonial Rule. The administrative and judicial reforms of Colebrooke-Cameron Commission in 1833/34 and the introduction of the coffee plantations thereafter were the turning point of the economic history of modern Sri Lanka. The economic activities in the modern sector were centred upon the export crops and accelerated toward the expansion of monoculture plantation system with the advent of planters from Britain and estate workers from South India.

The sharp contrast between the very monotonous export economy and the diversified social formation was basic characteristic of the pre-independent Sri Lanka and the pivot of the major contradictions for the nation building even after the political independence. The nationalist movement during the colonial period and the successive governments since 1948 have aimed at the breakthrough of the monoculture export economy. The chief purpose of the industrialisation planning for the past three decades has been to create a more diverse economic life in Sri Lanka in order to meet with its diversified social formation

no matter how it may be difficult in the existing resources endowment.

The objective of this paper is to look back the general trends and patterns of the policy measures for industrialisation and to examine the structural change of the industrial sector in the national economy of Sri Lanka.

Table 1 Population by Ethnicity and Religion (Census years)

Ethnic Group	Number('000')				
	1946	1953	1963	1971	1981 <sup>(1)</sup>
	6,657	8,098	10,582	12,690	14,850
Low Country Sinhales					
Kandyan Sinhalese	4,621	5,617	7,513	9,131	10,986
Ceylon Tamils	734	885	1,163	1,424	1,872
Indian Tamils	781	974	1,123	1,175	825
Ceylon Moors	374	464	627	828	1,057
Indian Moors	36	48	55	27	-
Europeans	5	7	-	-	-
Burghers and Eurasians	42	46	46	45	38
Malays	23	25	33	43	43
Veddhas	2	1	-	-	-
Others	41	32	21	16	29

Religion	Numbers('000)		
	1963	1971	1981 <sup>(1)</sup>
All Religions	10,582.0	12,690.0	14,850.0
Buddhists	7,003.3	8,536.9	10,292.6
Hindus	1,958.4	2,238.7	2,295.8
Muslims	724.0	901.8	1,134.6
Roman Catholics & Other Christians	884.9	1,004.3	1,111.7
Others	11.4	8.3	15.3

Source: Dept. of Census and Statistics.

(1) Provisional.

## II. Change of Industrial Policy since Independence

Sri Lanka inherited a predominantly agricultural export economy when she achieved the political independence as a dominion in Commonwealth in 1948. It was sustained largely by the production and export of three major plantation crops (tea, rubber and coconut). The plantation sector was originally started by British planters in 19th century with Indian immigrant workers who were mostly brought from villages of the present Tamil Nadu. The vested interest of sterling companies remained until the land reform of Sri Lanka in 1975. The agricultural export economy was supplemented by the indigenous subsistence peasant agriculture engaged chiefly in paddy cultivation and other subsidiary food crops.

There was little industrial production other than the processing activities associated with export product, which had traditionally been treated as part of agricultural sector. Snodgrass estimated that in 1950 manufacturing (excluding the processing of tea, rubber and coconut) accounted for only four percent of the GDP at current factor cost.<sup>1</sup> On the other hand, agriculture, forestry and fishing amounted to 50 percent of the GDP while employing 59 percent of the total estimated workforce in 1950.

The official policy towards industrial development during the first few years after independence was very much a continuation of the policy of the pre-independence period. The policy of reserving what are considered basic industries for state ownership such as cement, steel, paper, caustic soda, vegetable oil, textile and sugar remained unchanged. Even in 1952, however, most of the new factories scheduled were still at the planning stage and a few of them were under construction. At this time there began a significant change in official policy, deviating from earlier commitments towards the role of public enterprise in industrial development.<sup>2</sup>

Sri Lanka economic conditions in the early 1950's were influenced in an unusually favourable manner by the Korean War boom in primary commodity prices. With the large trade surpluses, the government was recommended by the World Bank

Mission of 1951 an investment programme for growth, which could be financed through non-inflationary sources. The Mission recommended that industrial development policy should aim at the promotion of initially small industries which would contribute to the spread of industrial techniques and know how as a basis for later growth rather than at the undertaking of single large projects making heavy demands on the still restricted capital, technical and managerial resources available.<sup>3</sup> The views of the World Bank Mission came to be reflected in the government's subsequent Six Year Programme of Investment, which spelled out the new policy as a shift of emphasis from the large-scale to the small-scale industries and a shift in the role of the state to that of a promoter rather than of sole entrepreneur.<sup>4</sup> The extremely low share assigned to industry in the Programme implied that the private sector was expected to play substantial role in industrialization.

The change of the government as a result of the general election in 1956, however, brought out the change of the industrial policy. In the Ten Year Plan of the new government, 24 percent of the total investment was allocated to manufacturing industry<sup>5</sup> in comparison of 4.4 percent in the preceding Six Year Programme. Moreover, the overwhelming bulk of the government's industrial investment was intended to be channelled into large scale industry. But, the environment of foreign trade after the mid-fifties were in creasingly unfavourable for Sri Lanka. Commodity terms of trade (1978=100) consistently deteriorated from a high of 203 in 1955 to 142 in 1965. Hence, the main aim of industrialization became import substitution.

All the industries were broadly classified into three categories. The first one dealt with a group of basic industries such as iron and steel, cement, chemicals, fertilizer, mineral sands and salt. This category was reserved exclusively for the public sector. In the second category there were about 20 industries (textile, tyres and tubes, acetic acid, ceramics, vegetable oil refinery glass etc.) for both government and private enterprise with possibilities of joint participation. The third category consisted of light consumer goods industries left for the private sector. This demarcation did not remain

rigid because the involvement of the public sector came to be more prominent in the second category during the plan period. Under the State Industrial Corporation Act of 1957 existing public corporations were reconstituted and several new corporations were started to promote the large scale industries in the public sector.

Private foreign capital investment was also encouraged in order to accelerate the industrialisation process, 26 joint ventures were approved by the Ministry of Industry while the collaboration with Japanese firms(6) exceeded those with British (5) or American (4) during 1963-67. In the same period, however, the government rejected about 30 applications of private foreign capital investment in such industries as biscuit, radio, garment, cotton spinning and weaving, sand paper, chemical dye, medicine, motor car, scooter, synthetic textile, galvanized iron sheet and so on, on the ground that the existing factories were sufficient to the narrow domestic market. The import substitution industrialisation was the goal of the industrial policy even for the foreign collaboration.

Although the industrial production increased to some extent in the first half of the 1960's, the usual inefficiencies of import substitution industrialisation under heavy protection gradually came into sharp focus at the general election of 1965. The social discontent which all this aroused resulted in a change of the government again. The major element of the strategy the new government adopted to get over the impasse was to depend on foreign aid. An aid Ceylon Group was established under the auspices of the World Bank and larger amount of foreign aid began to flow into the country mostly from the West.

Some of the main policy measures suggested by the World Bank and IMF to Sri Lanka were as follows.

- a) to eliminate the operating losses of government enterprises by raising the prices they charge and by eliminating excess manpower employed by them,
- b) to restrain the growth of bank credit to public and private sectors,
- c) to promote private sector investments through measures like tax incentives, and generally to improve the climate for the

inflow of foreign official and private capital.

In addition to the above measures, the 20 percent devaluation of the currency in November, 1967, the introduction of the Foreign, Exchange Entitlement Certificate Scheme (FEECS) in May 1968 and the import liberalisation were recommended jointly by IMF and World Bank. Through the FEECS the incentive were provided for non-traditional exports, including manufactured goods since the Sri Lanka's traditional plantation products did not come with in the FEECS.

But, free market policies promoted in Sri Lanka did not last long due to the political rejection by the masses in 1970. The industrial policy of the United Left Front which took office in May 1970 was achieve the following objectives;

- a) development of basic and heavy industries within the public sector,
- b) greater employment creation and location of industries in less developed regions,
- c) maximum use of domestic resources in industries
- d) maximum support to export oriented industries
- e) development of technology consistent with basic factor endowments.

These policy objectives have been given more definite emphasis in the Five Year Plan of 1972-76.<sup>7</sup> In the proposed allocation of the planned investment, the public sector took a larger share (55 % of total outlays) in the industrial sector as a whole. The creation and development of a new export sector based on industrial products is a key element in the Five Year Plan 1972-76. This is an attempt to move from the import substitution industrialisation of the Ten Year Plan. Of total increase in export earnings nearly 35 percent was expected to come from industrial exports.

Unfortunately, the Plan's implementation suffered seriously in many respects. Sri Lanka's foreign exchange situation was further aggravated by a sharp escalation in the prices of several imports such as foodstuff, raw material and crude oil. These trends inevitably resulted in a fall in the commodity terms of trade (fell by 30 % in 1970/74). Amid such adverse economic condition, the industrial sector, especially private

industry had to suffer severe shortage of imported raw materials and other inputs. Due to sluggishness of economic activity and other reasons the rate of unemployment increased from 14.4 percent in 1969 to 20 percent in 1977.<sup>8</sup> There were widespread scarcities, which were felt severely in the market for even foodstuffs, particularly in 1973 and 74.

In reaction to the deteriorated economic life, the ruling party was badly defeated in the general election of 1977. The economic policy after the election which was summarised as "open economy" by the present government, was introduced along with massive foreign aid and so-called IMF - World Bank stabilisation package.

In the new industrial policy the private sector was expected to play an increasing role in place of the public sector dominance. The creation of Free Trade Zone in the northern suburbs of Colombo was one of the main measures to attract foreign private capital, in addition to the liberalisation - devaluation package. Even before the establishment of the Greater Colombo Economic Commission for the sake of the Free Trade Zone, the industrial units in the Western province had accounted for about 80 percent of the total number and about 90 percent of the total value of industrial production. The concentration of industrial activities only in a limited region may induce undesired repercussions in the other regions. However, this is the most distinct manifestation of the policy shift from import substitution to the export oriented industrialisation.

The industrial policy of Sri Lanka since the political independence seems to have been staggered very often by the changes of governments and the interventions of the IMF - World Bank. At almost every general election the opposition party has won the mandate and made an effort to dismantle the policy of the previous government as much as possible, thus forcing the path of industrial development to zigzag from state control to free market. The continuity and consistency of the policy might have been seriously hampered by the change of the government as far as superficial argument in planning documents or election manifesto are concerned. But, if we have insight into the



economic reality since the mid-fifties, the trade deficit and the constraint of foreign exchange have compelled each government gradually to seek for the expansion of export in the industrial sector, irrespectively of their ideological stance. In the following section the performance of the industrial sector in Sri Lanka will be examined in the light of contineous tendency of industrialisation.

#### Notes

1. Snodgrass, D.R., Ceylon : An Export Economy in Transition, Homewood, 1966, p.101.
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3. IBRD, Economic Development of Ceylon, John Hopkins Press, Baltimore, 1953, p.126.
4. Planning Secretariat, Six Year programme of Investment, Colombo, 1955, p.245.
5. National Planning Council, The Ten Year Plan, Colombo, 1959, p.78.
6. Lakshman, W.D., The IMF-World Bank Intervention in Sri Lankan Economic Policy, in "Social Scientist", March, 1985, p.14.
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8. IBRD, Development in Sri Lanka, 1978, p.9.

### III. Development of Manufacturing Sector

The report of "Census of Ceylon 1946" describes the conditions of the manufacturing sector in the pre-independence period with the figures of the gainfully employed population classified according to occupations. Broadly speaking, about 63.9 percent of gainful worker in 1946 were engaged in physical production, i.e., agriculturing, fishing and manufacturing. The rest of them were in distribution (21.1 percent) and other service sector (15 percent) as shown in Table 2.

Table 2 Gainful Workers, Ceylon, 1946, by Broad Occupational Groups, showing Percentage in each Group of all gainful Workers

Occupations	Number	Per Cent. of all Gainful Occupations
Agriculture, fishing and forestry	1,381,612	52.9
Industry (manufacturing, mechanical pursuits and mining)	286,507	11.0
Total for physical production	<u>1,668,119</u>	<u>63.9</u>
Commerce (Trade and Transportation)	530,029	20.2
Banking, Commission Agencies, accountancy and Secretarial Services	22,489	.9
Total for distribution	<u>552,518</u>	<u>21.1</u>
Professional service	81,800	3.1
Public service	66,802	2.6
Domestic and personal service	242,285	9.3
Total for service occupations	<u>390,887</u>	<u>15.0</u>

259,799 Workers (males 200,871, females 58,928) were in the manufacturing sector excluding the major agro-based export industries like tea factories.<sup>1</sup> The most of industrial workers were traditional craftsmen rather than modern factory employees. For example, workers in wood numbered 61,006 persons, of whom 77

percent were carpenters and 21 percent were sawyer coir yarn makers were the most of numerous among 33,45 textile workers, and goldsmiths and blacksmiths were more than two thirds (20,262) of workers finding their principal means of subsistence in work on metals. 30,675 construct workers like masons were also included in the manufacturing sector in this Census.

In 1952, a systematic attempt to collect data relating to industrial production was made through the Census of Industry 1952, which covered mining and quarrying, manufacturing, electricity and gas, and construction. This census gathered information on production, employment, wages, capital formation etc., enumerating 692 industrial establishments and public sector enterprises, but being confined only to factory type of industries unlike the previous census.<sup>2</sup>

Coconut processing industry was largest in production as about 900 tea factories and a multitude of rubber mills and factories were brought in the scope of census of Agriculture. The next to it was light engineering, printing, tobacco and electricity industries which produced the net output more than one million rupees respective (Table 3). The level of industrialisation revealed in this census was quite low, but domestic private capital was not attracted by industrial possibilities. In the public sector, only industrial venture of importance set up in the early 50s was the cement factory at Kankasantur, and the introduction of hydro-electric power for the first time with a capacity of 25 megawatts at the Laxapana station.<sup>3</sup>

A change from this situation was slow and sporadic and the import substitution phase in the succeeding period the National Paper Corporation was incorporated in 1956 for the purpose of manufacture and sale of paper and paperboard as well as sale of articles made of pulp and paper. In the same year the Paranthan Chemical Corporation was set up to manufacture caustic soda, chlorine, hydrochloric acid and other by-products. In the following year the National Salt Corporation was also established for processing, recovery, purification, manufacturing and selling salt and other chemical products derived from inland and marine waters.

Table 3 Census of Industrial Establishments 1952 (Extracts) Principal Statistics-by Industry

Industry	Number of Establishments	Gross Output	Net Output	Average Number of Operatives <sup>1/</sup>	Net Output per person employed	Productive Capital employed
		Rs 000s	Rs 000s		Rs	Rs 000s
1 Plumbago	8	7,241	4,114	1,496	2,360	3,196
2 Salt	12	2,906	2,687	366	6,277	-
3 Milk Products	4	773	272	25	7,996	645
4 Grain Milling	67	46,477	2,121	767	2,279	7,981
5 Confectionery, canning & processing of fruit & other products	22	7,532	2,422	806	2,621	1,695
6 Distilleries and Breweries	9	14,158	9,206	368	19,840	5,868
7 Aerated and Mineral Waters	32	6,710	3,626	605	5,129	4,841
8 Tobacco	3	64,397	8,692	1,741	4,524	44,413
9 Textiles and thread	4	11,114	5,954	1,456	3,907	11,817
10 Coir fibre and coir goods	130	25,203	21,913	5,374	3,853	8,965
11 Footwear (exclusive of rubber footwear)	3	626	334	175	1,760	119
12 Plywood and timber sawing	56	6,838	3,696	1,407	2,355	4,895
13 Printing, bookbinding and kindred industries	117	37,150	19,835	4,378	3,981	27,350
14 Leather & leather goods (exclusive of footwear)	6	1,354	504	210	2,175	1,719
15 Rubber goods	6	4,046	2,697	511	4,510	2,898
16 Fertilizers	3	15,923	4,869	121	27,821	4,419
17 Coconut and oil milling	75	234,482	50,463	6,976	6,514	39,599
18 Soap, Glycerine & perfumes	13	23,091	5,971	460	10,739	18,950
19 Matches	5	3,309	2,336	858	2,596	1,543
20 Bricks and tiles	11	1,967	1,442	552	2,461	2,282
21 Ceramics, glass & cement	4	10,426	6,838	1,237	5,062	21,065
22 Engineering	61	94,361	47,779	16,146	2,661	96,108
23 Jewellery and plastics	8	2,895	1,480	244	5,342	1,687
24 Electricity	30	15,678	12,471	972	12,061	37,608
25 Coal gas, oxygen & carbon dioxide	3	5,181	2,944	275	10,294	6,120
	692	610,838	224,666	47,526	4,203	355,783

Source: Census of Industry, 1952 - Department of Census & Statistics

<sup>1/</sup> - Excludes other staff.

The Ceylon Mineral Sands Corporation was created in 1957 in order to recover the commercially valuable minerals (ilmenite, rutile and zircon) from the extensive beach deposit at Pulmodai. The Ceylon Plywoods Corporation was re-constituted during 1959 to produce plywoods at Gintota factory and chipboards at Salawa factory. The Ceylon Government Leather Factory was also converted to the public industrial corporation for manufacturing wide varieties of leather products. The Ceylon Ceramics Corporation was established in 1959 for the manufacture and sale of ceramicware, china sanitaryware, Terracotta, bricks, tiles and other types of porcelain articles.

These state enterprises established or re-constituted during the second half of 1950s became the production base for import substitution industrialisation. The state capitalism was strengthened by the nationalisation of supporting services for industries such as road transport in 1957 (Ceylon Transport Board), cargo handling in the Port of Colombo in 1958.

After the general election of 1960, the government proceeded to nationalise some more essential services. The Ceylon Petroleum Corporation established in 1961 took over 25 percent of the assets of the Shell, Caltex and Esso oil companies for the nationalisation of petroleum distribution. Although it offered to pay compensation in local bonds this device and amount offered were not acceptable to the oil companies and the US government.<sup>4</sup> The government went on to nationalise the insurance business as well, and started the people's Bank, both as a commercial bank and as a source of rural credit to small industries and agriculture.

A few state enterprises were added in the first half of 1960s. The Ceylon Steel Corporation was established in 1961 to manufacture rolled steel rounds and drawn wire from imported billets and wire rods. A further purpose was to build up the technical expertise which is generally required for the complete development of metallurgical skills for a steel industry in Sri Lanka. The Ceylon State Hardware Corporation was established in 1963 and constructed a factory for agricultural implements at Yakkala and a cast iron foundry at Endaramulla.

In case of the Kelaniya Tire Corporation of 1962, the nature of the industry might have been interpreted as a kind of an export substitution because one of the main objectives was the export of rubber tyres and tubes, air bags and flaps and other allied products, and also technical training of Sri Lanka personnel for the rubber industry. At the time of establishment, however, the tyre factory was constructed in the context of the import substitution industrialisation policy.

These newly created state industrial corporation as well as the large textile mills of the government undertakings have been a backbone of industrialisation and expected to become production forces for diverse domestic industries. But, their progress and performance have not been satisfactory as examined in the next chapter.

The Census of Industry 1964 was conducted to cover 711 industrial units of both public and private sectors, but the result of it was not published due to some technical problems. Then, no census of industry was ventured until 1983 when all establishments engaging five or more persons and also a sample of those with less than five persons were enumerated in the Census of Industry by the Department of Census and Statistics.

In 1960s and early 70s, the Central Bank of Ceylon was the chief state agency that regularly collected and published statistics about industrial activities in Sri Lanka. Prior to 1969, the Central Bank and the Ministry of Industries and Fisheries carried out joint annual surveys. Since 1969 data on production, employment and wages have been obtained through postal questionnaires, followed up by personal calls on the industrialists. The Annual Reports of the Central Bank incorporate useful statistical information about the trends in development of industries at an overall level.

Table 4 shows the state of the sectorwise industrial development in Sri Lanka from 1965 to 1983 by the above statistics. According to this Table, the rapid growth of chemical and textile industries is remarkable very much, and the share of food processing industry is substantial throughout the period surveyed. This is somewhat different from the real economic activity and a little misleading although the impression from

# SECTION 1

Table 4 Industrial Production by Major Products

	1965	1966	1967	1968	1969	1970
Food, Beverages & Tobacco	415.5	389.9	422.3	609.6	461.8	684.1
Textile & Leather	171.5	178.9	177.1	224.3	267.1	282.1
Wood & Wood Products	5.2	6.5	10.4	16.9	18.0	21.1
Paper & Paper Products	29.3	33.8	34.7	54.6	62.3	65.1
Chemical & Chemical Products	125.3	137.2	136.7	203.3	249.8	439.1
Non Metallic Mineral Products	40.2	32.5	69.5	92.8	123.3	138.1
Basic Metal Products	-	-	-	27.3	28.2	38.1
Machinery & Transport Equipment	58.7	69.8	102.0	167.1	226.2	256.1
Other Manufactured Products	1.3	1.7	1.5	2.7	9.5	18.1
<b>Total</b>	<b>847.0</b>	<b>850.3</b>	<b>954.2</b>	<b>1398.6</b>	<b>1,626.8</b>	<b>1,945.1</b>

Source: Central Bank of Ceylon, Annual Reports.

	1975	1976	1977	1978	1979	1980
Food, Beverages & Tobacco	1,503.0	1,715.0	2,295.0	2,609.0	2,856.0	3,898.0
Textile & Leather	892.0	680.0	698.0	1,008.0	1,128.0	1,923.0
Wood & Wood Products	115.0	129.0	127.0	124.0	166.0	289.0
Paper & Paper Products	270.0	203.0	270.0	376.0	445.0	476.0
Chemical & Chemical Products	2,002.0	2,336.0	2,469.0	3,276.0	4,508.0	9,416.0
Non Metallic Mineral Products	244.0	360.0	411.0	592.0	710.0	1,156.0
Basic Metal Products	128.0	138.0	132.0	219.0	349.0	478.0
Machinery & Transport Equipment	381.0	474.0	571.0	590.0	569.0	620.0
Other Manufactured Products	20.0	26.0	34.0	55.0	50.0	54.0
<b>Total</b>	<b>5,555.0</b>	<b>6,061.0</b>	<b>7,007.0</b>	<b>8,852.0</b>	<b>10,781.0</b>	<b>18,311.0</b>

# SECTION 2

## Major Products

(Hillion Rupees)

	1966	1967	1968	1969	1970	1971	1972	1973	1974
5	389.9	422.3	609.6	461.8	684.5	743.0	798.7	919.6	1,247.0
5	178.9	177.1	224.3	267.1	282.7	306.2	394.5	420.8	571.0
2	6.5	10.4	16.9	18.0	21.2	26.6	30.7	43.0	53.0
3	33.8	34.7	54.6	62.3	65.0	70.3	79.1	101.0	137.0
3	137.2	136.7	203.3	249.8	439.2	530.0	563.8	543.4	1,353.0
2	32.5	69.5	92.8	123.3	138.8	176.4	172.9	190.0	288.0
-	-	-	27.3	28.2	38.9	58.6	67.5	53.2	130.0
7	69.8	102.0	167.1	226.2	256.1	273.5	304.8	347.1	349.0
3	1.7	1.5	2.7	9.5	18.6	23.1	30.4	33.2	16.0
0	850.3	954.2	1398.6	1,626.8	1,945.0	2,207.7	2,442.4	2,651.3	4,144.0

## al Reports.

	1976	1977	1978	1979	1980	1981	1982	1983	1983(%)
75	1,715.0	2,295.0	2609.0	2,856.0	3,898.0	4,496.0	5,246.0	6,998.0	24.61
0	680.0	698.0	1008.0	1,128.0	1,923.0	3,040.0	3,863.0	5,136.0	18.06
0	129.0	127.0	124.0	166.0	289.0	315.0	361.0	522.0	1.83
0	203.0	270.0	376.0	445.0	476.0	626.0	725.0	901.0	3.16
0	2,336.0	2,469.0	3276.0	4,508.0	9,416.0	12,015.0	13,099.0	11,888.0	41.80
0	360.0	411.0	592.0	710.0	1,156.0	1,250.0	1,370.0	1,468.0	5.16
0	138.0	132.0	219.0	349.0	478.0	428.0	262.0	302.0	1.06
0	474.0	571.0	590.0	569.0	620.0	782.0	904.0	1,129.0	3.97
0	26.0	34.0	55.0	50.0	54.0	58.0	74.0	90.0	0.35
0	6,061.0	7,007.0	8852.0	10,781.0	18,311.0	23,010.0	25,904.0	28,434.0	100.00



the glance of the statistical table may be the sustained industrialisation to the diversified production capability.

The increase of chemical product is mere reflection of the price hike of petroleum and re-export of the by-products in refinery process of the imported oil. In case of textile industry, too, the major contribution of the production growth is from garment industry, in which most of raw material in the form of textile or yarn are imported from the industrialised countries. Food industry includes the products of tea and coconut processing factories in the plantation agriculture which were colonial heritage in Sri Lanka.

In order to assess the degree of industrial diversification, we have to look at respective industries more in detail, and examine the imported components for each product and also the value added by the industrial activities in the country. With the view to collect more realistic industrial statistics the Ministry of Industry and the Department of Census and Statistics started to carry out their own industrial surveys in late 70s. In 1983 Census of Industry was carried out, covering all establishments engaging five or more persons and also a sample of those with less than five persons. The report of it has not yet been published, though this census is a landmark in the history of industrial statistics in Sri Lanka. Therefore, the degree of the development of manufactured sector will be assessed precisely when the industrial data from wider spectrum of a large number of small scale and large scale industries are made available by this census.

#### Notes

1. Department of Census and Statistics, Census of Ceylon 1946, vol. I Part II - Statistical Digest, Colombo, 1951, pp.213-217.
2. Ministry of Finance and Planning, Sri Lanka Industrial Statistics 1983, Colombo, 1983, p.2.
3. Ponnambalam S., Dependent Capitalism in Crisis, London, 1981, p.24.
4. *ibid.*, p.44.
5. Ministry of Finance and Planning, *op, city*, p.16.

#### IV. Foreign Trade of Industrial Products

In 1977 Sri Lanka's new economic policy orientation sought basically to overcome the constraints of a small domestic market, a narrow Technological base and lack of competition for innovation and improvement through the greater openness to the international economy. After the several years of controls, trade and payment were liberalised, along with the re-alignment of the currency and incentives to foreign capital investment. These measures were accompanied by a large infusion of money into the economy, mainly financed by foreign aid.

By 1983, the results of new policy appeared to be impressive. The Gross National Product grew by an average of six percent annually since 1977. Unemployment seems to have been reduced remarkably from 25 percent of the labour force to 14 percent.<sup>1</sup> There is abundance of goods, compared with the shortage of the 1970-77. The selected performance indicators for industrial sector are given in the Table 5.

The growth rate of industries in real terms amounted to 11 percent in 1978. This high rate of growth reflected the immediate response of the industrial sector to the liberal imports of machinery, raw materials and spares, resulting in a sharp increase in capacity utilization from 60 percent in 1977 to 70 percent in 1978. It was also a response to the removal of domestic price controls.

The lower growth rates during the subsequent three years were probably due to rising petroleum prices, sluggish economic growth among developed countries, severe power disruptions and gestation period of new industrial investment in Free Trade Zone. However, the was more dissatisfactory aspect of the new policy, particularly among small industrialists. Many cottage industries like hand-loom production had folded up in the face of imports.

The lack of competitiveness on the part of local industry was attributed to consumer preference to the imported goods regardless of quality, and to the relatively high rate of custom duty on raw materials in comparison with finished goods. From

Table 5 Selected Performance Indicators for Industrial Sector

	1978	1979	1980	1981	1982	1983
Capacity Utilization (Percentage)	70	72	73	74	76	74
Industrial Exports						
Rs. Million <sup>2</sup>	1,891	3,700	5,814	7,296	8,271	8,821
SDR Million	97	184	270	322	360	351
of which (In SDR Millions)						
Petroleum Products	48	96	145	149	143	107
Textiles & Garments	25	55	85	133	152	188
Others	24	33	40	40	65	56
Percentage of Industrial Exports to Total Exports	14.3	24.2	33.0	34.7	38.5	35.1
Growth Rate of Industrial Production <sup>3</sup> (Percentage)	11.0	4.0	5.0	4.0	8.9	2.2

1. Provisional estimates

2. At current prices

3. 1979 factor cost prices up to 1982 and 1982 factor cost prices for 1983 and 1984

Sources: Central Bank of Ceylon and Ministry of Finance & Planning.

the viewpoint of industrial development, Sri Lankan economy came to be fairly in balanced. The share of the productive sectors of the economy in GDP declined from 59.4 percent in 1977 to 45.1 percent in 1982. On the other hand, trade, banking and insurance, and ownership of houses increased the share from 21.9 percent to 23.2. The bulk of the increase was accounted for by the import trade, which increased from 2 percent of GDP to 4.5 percent.<sup>2</sup>

The substantial improvement of industrial sector was on account of the increase in production, both in the public and the private sectors. Public sector industrial growth which was five percent + higher than in the previous year was mainly due to the higher production level reached by the Ceylon Petroleum Corporation. Private sector industrial output was nine percent higher and was mainly accounted for by growth of textiles and garments production. In addition to the existing industries, new venturers entering into production in the Greater Colombo Economic Commission area (figure 1) and those covered by the Foreign Investment Advisory Committee were also responsible for the growth in industrial output. The approved industries by FIAC and GCEC are shown in the Tables 6 and 7.

The slowing down of the rate of industrial production in 1983 largely reflects a 15 percent decline in the output of public sector corporations (Figure 2). This was partly due to power cuts and reduced work hours in the wake of ethnic disturbances. The raw level of production in the oil refinery alone accounted for 21 percent drop in the output of the chemicals and petroleum sectors. According to the findings of the Task Force on Damage to Industry and Commercial Establishments, 122 industrial establishments were reportedly damaged during July-August disturbances of 1983.<sup>3</sup>

Exports of industrial goods have responded to the new policies. The percentage share of industrial exports in total exports has increased very significantly from 14 percent in 1978 to 38.5 in 1982. The increased consumptions of petroleum products by the urea plant and the thermal generators of the Ceylon Electricity Board during 1983 resulted in the decline in exports of petroleum products thereby bringing the percentage

contribution of industrial exports to 35.1. The Trends in exports of selected industrial products are shown in Table 8.

Thus, the avowed government strategy of export oriented industrialisation was not living up to expectations. 'In real terms, annual average growth of non-petroleum manufactured export earnings was 14.8 percent in 1978-82, compared with 32.3 percent in 1970-77'.<sup>4</sup>

Another alarming trend was the growing import dependency of manufactured exports. By 1982, the import content of manufactured exports excluding petroleum products was 60 percent. The fastest growing sector, garments, had an import content of 71 percent. In addition to the import content the bulk of the increase in exports since 1977 was accounted for by ventures with direct foreign participation. Hence, Other foreign exchange outflows such as profit and dividend repatriation and royalty payment would eat into actual earnings.

The export of garments alone account for about 80 percent of non-petroleum manufactured exports as calculated from the Table 9. The heavy dependence on a single import-intensive item may be interpreted as the industrial version of the monoculture economy in the colonial period. The need to diversity the industrial sector is strongly felt by local industrialists, particularly among small scale industries.

In response to this need of industrialist, the small and medium scale industry credit guarantee scheme of the National Development Bank was started in 1979, refinanced by an IDA line of credit. Table 10 shows the financial assistance given under this project according to the industrial groups. The impact of this project towards the diversified industrialisation is yet to be seen in due course.

Table 6 Foreign Investment Advisory Committee

Industrial Approvals Classified According to Industrial Groups - 1978-1982

(Rs.Million)

	Foreign Investment				
	1978	1979	1980	1981	1982*
1. Textile and Readymade Garments	25.1	253.4	11.1	30.1	48.9
2. Food and Beverages	0.1	37.5	476.1	109.2	141.5
3. Wood & Paper Products and Printing & Publishing	0.2	5.0	1.4	64.9	5.1
4. Chemical & Chemical Products and Plastic & Rubber Based Industries	31.4	39.2	252.2	106.3	41.2
5. Non-Metallic Mineral Products	-	6.4	203.1	63.9	26.7
6. Basic Metal & Engineering Industries	40.4	30.8	21.2	234.2	67.9
7. Other Industries	-	20.0	27.0	4.0	5.9
<b>Total:</b>	<b>97.2</b>	<b>392.3</b>	<b>992.1</b>	<b>612.6</b>	<b>337.2</b>

\*Provisional.

Source - Foreign Investment Advisory Committee.

Table 6 Foreign Investment Advisory Committee

Industrial Approvals Classified According to Industrial Groups - 1978-1982

(cont.)

(Rs.Million)

	Local Investment				
	1978	1979	1980	1981	1982*
1. Textile and Readymade Garments	35.3	428.3	15.4	25.1	112.9
2. Food and Beverages	0.1	36.3	22.9	10.0	116.7
3. Wood & Paper Products and Printing & Publishing	0.4	7.1	4.8	84.7	2.0
4. Chemical & Chemical Products and Plastic & Rubber Based Industries	42.7	42.9	271.1	120.6	109.8
5. Non-Metallic Mineral Products	-	9.9	65.0	27.2	43.3
6. Basic Metal & Engineering Industries	36.8	18.0	16.2	156.3	67.9
7. Other Industries	-	14.6	20.1	16.6	11.3
<b>Total:</b>	<b>115.3</b>	<b>557.1</b>	<b>415.5</b>	<b>440.5</b>	<b>463.9</b>

\* Provisional.

Source - Foreign Investment Advisory Committee.

Table 6 Foreign Investment Advisory Committee

Industrial Approvals Classified According to Industrial Groups - 1978-1982

(cont.)

	(Rs. Million)				
	Total Investment				
	1978	1979	1980	1981	1982*
1. Textile and Readymade Garments	60.4	681.7	26.5	55.2	161.8
2. Food and Beverages	0.2	73.8	499.0	119.2	258.2
3. Wood & Paper Products and Printing & Publishing	0.6	12.1	6.2	149.6	7.1
4. Chemical & Chemical Products and Plastic & Rubber Based Industries	74.1	82.1	523.3	226.9	151.0
5. Non-Metallic Mineral Products	-	16.3	268.1	91.1	70.0
6. Basic Metal & Engineering Industries	77.2	48.8	37.4	390.5	135.8
7. Other Industries	-	34.6	47.1	20.6	17.2
<b>Total:</b>	<b>212.5</b>	<b>949.4</b>	<b>1,407.6</b>	<b>1,053.1</b>	<b>801.1</b>

\* Provisional.

Source - Foreign Investment Advisory Committee.

Table 7 Investment Approvals in Industry within Greater Colombo Economic Commission 1982-1983<sup>(a)</sup>

Category	Number of Units				Foreign Investment (Rs. Ml.)			
	Approvals		Contracted		Approvals		Contracted	
	1982	1983*	1982	1983*	1982	1983*	1982	1983*
1. Food, beverages and tobacco	-	-	-	-	-	-	-	-
2. Textile, wearing apparel and leather products	3	1	3	2	48	13	106	66
3. Wood and wood products (including furniture)	1	-	-	-	15	-	-	-
4. Paper and paper products	-	-	-	-	-	-	-	-
5. Chemicals, petroleum, coal, rubber and plastic products	1	2	2	-	78	15	59	17
6. Non-metallic mineral products (except petroleum and coal)	1	1	1	2	23	2	7	25
7. Basic metal products	-	-	-	-	-	-	-	-
8. Fabricated metal products, machinery & transport equipment	3	1	1	-	207	14	1	-
9. Manufactured products n.e.s.	6	8	4	4	50	92	294	26
<b>Total</b>	<b>15</b>	<b>13</b>	<b>11</b>	<b>8</b>	<b>421</b>	<b>136</b>	<b>467</b>	<b>134</b>

\* Provisional

(a) Excluding Services

Source: Greater Colombo Economic Commission.



Table 7 Investment Approvals in Industry within Greater Colombo Economic Commission 1982-1983(a)  
(cont.)

Category	Total Investment (Rs. Mn.)				Employment Potential (Nos.)			
	Approvals		Contracted		Approvals		Contracted	
	1982	1983*	1982	1983*	1982	1983*	1982	1983*
1. Food, beverages and tobacco	-	-	-	-	-	-	-	-
2. Textile, wearing apparel and leather products	72	34	128	91	1,104	838	2,506	865
3. Wood and wood products (including furniture)	26	-	-	-	200	-	-	-
4. Paper and paper products	-	-	-	-	-	-	-	-
5. Chemicals, petroleum, coal, rubber and plastic products	100	24	79	20	290	1,052	339	178
6. Non-metallic mineral products (except petroleum and coal)	27	3	14	30	159	230	358	389
7. Basic metal products	-	-	-	-	-	-	-	-
8. Fabricated metal products, machinery & transport equipment	250	20	2	-	593	102	99	-
9. Manufactured products n.e.s.	110	120	461	36	1,438	1,729	2,334	1,368
<b>Total</b>	<b>585</b>	<b>201</b>	<b>684</b>	<b>177</b>	<b>3,784</b>	<b>3,951</b>	<b>5,636</b>	<b>2,800</b>

\* Provisional  
(a) Excluding Services

Source: Greater Colombo Economic Commission.

Table 8 Trends in Exports of Selected Industrial Products

(Rs. Million)

Product	1978	1979	1980	1981	1982	1983
Garments	481	1117	1826	3021	3502	4738
Petroleum Products	944	1928	3123	3375	3280	2682
Rubber Products	5.3	8.2	16.4	35.9	96.7	66.2
Salt	2.4	0.1	1.7	7.7	12.5	10.0
Essential Oils	25.1	23.9	28.4	36.2	30.2	41.5
Activated Carbon	8.1	8.9	12.2	21.6	20.5	33.8
Fabricated Metal Products	36.9	31.7	95.6	112.6	154.6	118.4
Ceramics	75.6	96.5	129.1	138.3	130.3	162.8
Fruit Products	15.1	23.7	39.2	59.7	84.6	107.2
Wood & Wood Products	31.4	46.3	43.8	49.2	64.5	125.3
Leather & Leather Products	32.7	46.0	41.7	42.1	42.1	136.6
Mining & Quarrying	35.5	59.0	65.6	48.7	66.2	200.4

\*Provisional Estimates

Source: Department of Customs.

Table 9 IMPORT DEPENDENCE OF MANUFACTURED EXPORTS 1982

	Contribution to total manufactured exports (%)	Import content Of exports (%)
Food, beverages and tobacco	8.25	17.91
Garments	46.57	71.23
Leather goods and footwear	0.70	48.71
Petroleum	39.10	85.88
Rubber goods	1.40	22.18
Ceramic and Wall-tiles	1.75	19.76
Machinery and equipment	1.52	43.20
Other manufactured goods	0.72	31.25
Total manufactured goods	100	68.78
Manufacture goods excluding petroleum	60.90	60.00

Source: Column 1, Sri Lanka Customs Returns  
Column 2, EDB records.

Supplemented with data from the Department of Census  
and Statistics Survey of Manufacturing Industry,  
1980

#### Notes

1. Samaranayaka N.D.r., 'Development Features of 1985 Budgetary Proposals', Economic Review; vol. 10 no. 10, Jan., 1985, pp. 12-13.
2. Central Bank of Ceylon, Reviews of Economy 1983, Colombo, Table 2A.
3. Ministry of Finance and Planning, Public Investment 1985-1989, Colombo, p. 92.
4. Athukorale P., 'Export Development: Policies and achievements', Economic Review, vol. 10 no.3, July-Aug. 1984, pp. 9-15.

Table 10 Financial Assistance under Small & Medium Industries Project - Sectoral Breakdown

(As On 31 December, 1982)

Industry Group	SMI I				SMI II			
	Number of Units	%	Amount of Credit (Rs. '000s)	%	Number of Units	%	Amount of Credit (Rs. '000s)	%
1. Food Processing	456	27.1	55,100	24.5	56	33.9	7,090	30.4
2. Other Agro-Industries	119	7.1	10,526	4.8	3	1.8	183	0.9
3. Rubber Products	26	1.5	6,425	2.8	3	1.8	480	2.0
4. Metal Products	203	12.1	21,130	9.4	30	18.2	2,404	10.4
5. Construction Materials	275	16.3	44,332	19.7	5	3.1	614	2.6
6. Construction Contracting	11	0.7	5,366	2.3	-	-	-	-
7. Wood Products	170	10.1	20,088	8.9	23	13.9	3,500	14.9
8. Garments	89	5.2	9,638	4.3	10	6.1	877	3.8
9. Textiles	52	3.1	8,114	3.6	2	1.2	424	1.8
10. Repair Workshops	46	2.7	3,706	1.6	2	1.2	848	3.6
11. Miscellaneous	236	14.1	40,893	18.1	31	18.8	6,920	29.6
<b>Total:</b>	<b>1,683</b>	<b>100.0</b>	<b>225,318</b>	<b>100.0</b>	<b>165</b>	<b>100.0</b>	<b>23,340</b>	<b>100.0</b>

Figure 1

# AREA OF AUTHORITY OF THE GREATER COLOMBO ECONOMIC COMMISSION

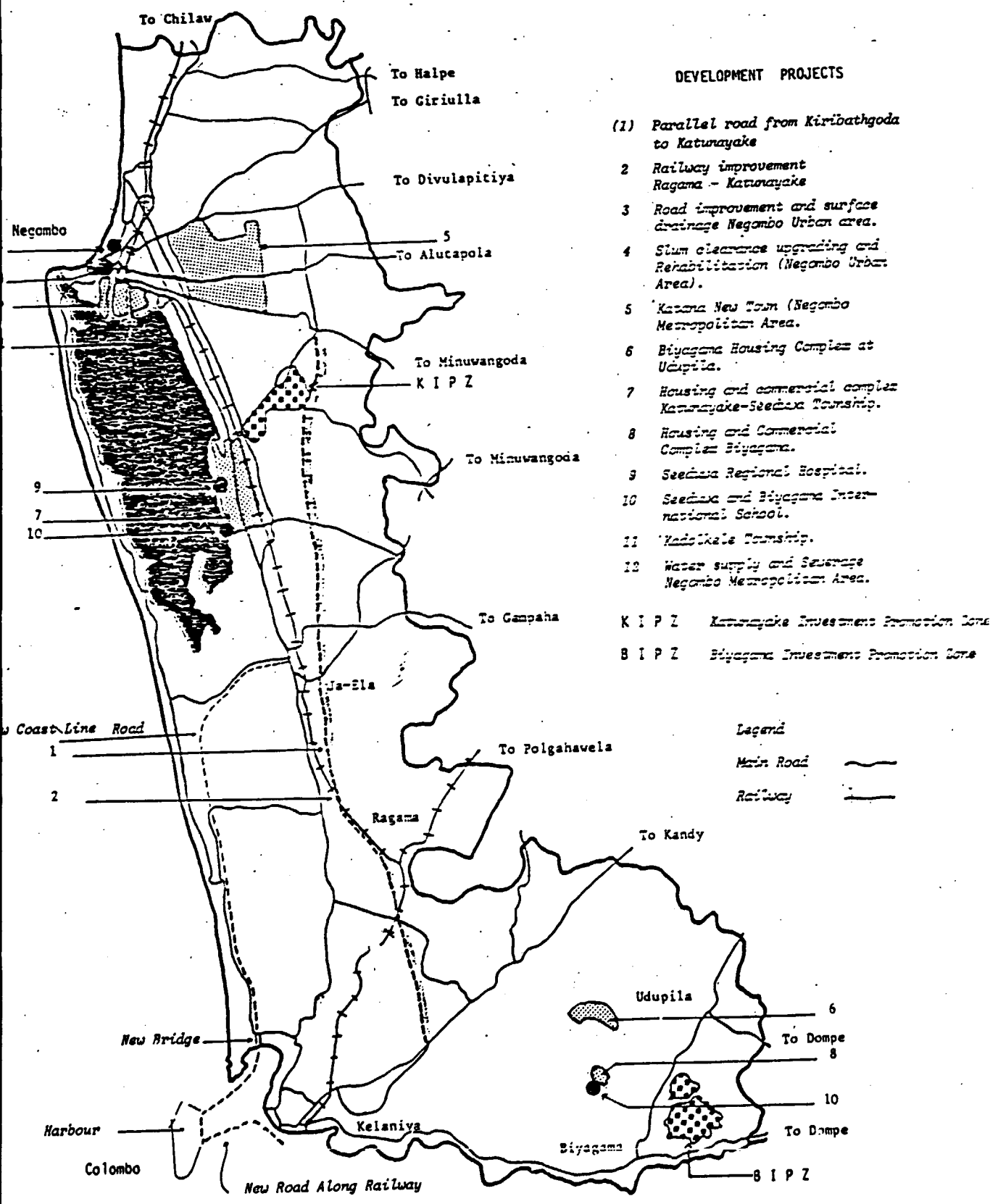
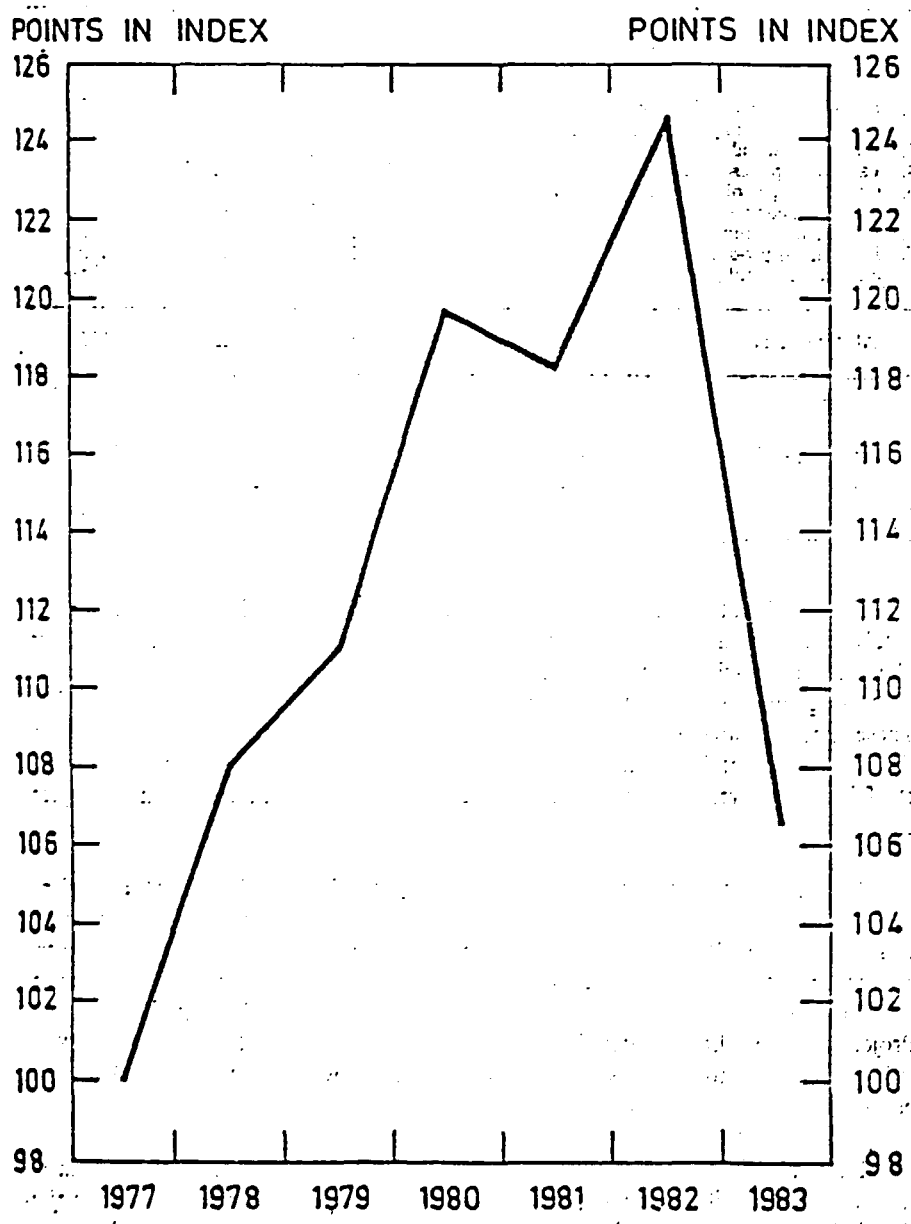


Figure 2

INDEX OF INDUSTRIAL PRODUCTION OF THE PUBLIC SECTOR\*



\* Represents the out put of 26 major enterprisces

Central Bank of Ceylon.

PART IV PAKISTAN

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## INTRODUCTION

This simple analytical report on Pakistan's industrial sector was prepared as part of the IDE( Institute of Developing Economies) project on "Manufacturing in Asian Countries" to meet UNIDO's requirement. The report intends in the first place to provide basic information on manufacturing in Pakistan. Secondly, it intends to be a description of the roles the manufacturing industry has played in Pakistan's economic development since independence in 1947.

The report consists of seven chapters. Chapter 1 gives a explanation of industrialization efforts in the early phase of Pakistan's existence. Chapter 2 deals with what is often called the "industrial golden era" of Pakistan in the 1960's. Then chapter 3 reviews the period of industrial stagnation during the 1969-1971 period. Chapter 4 deals with industrial policy shifts by the present Ziaul Hag regime.

Chapter 5 is an account of manufacturing in the Pakistan economy. Chapter 6 then is the major part of this report and tries to provide an overview of the structure of manufacturing in Pakistan. It deals with the number of industrial establishments, fixed assets, employment structure, value added, regional distribution of manufacturing industry, and small-scale industries. It also provides brief sub-sector profiles of cotton textile, food processing, chemical and fertilizer, cement and steel industrie.

Chapter 7 touches upon the current Sixth Five-Year Plan and the latest Industrial Policy Statement announced in July, 1984. This report relies heavily on statistics found in various issues of Pakistan Economic Survey published by the Government of Pakistan and Census of Manufacturing Industries 1980-81 of the Federal Bureau of Statistics, Government of Pakistan. The latter is almost the only source of basic information on of the manufacturing industry in Pakistan and is relied upon heavily in this report despite its various shortcomings.

To mention a few of them, firstly, it is not an annual publication. The Census of Manufacturing Industries (CMI) has come out only fourteen times during the past thirty-eight years of Pakistan's existence. The latest one available is the 1980/81 issue. Secondly, CMI suffers from a very high non-response ratios of at least 10 to 37 percent, although the CMI is officially estimated to cover 80-90 percent of establishments in the formal sector( 10 or more employees). Small-scale industries including cottage industries are entirely ignored by the CMI. Thirdly, it is difficult to compare the CMI data on a year-to year basis because the questionnaire is changed every time the cesus is carried on. The CMI is, in short, inadequate to obtain an overall picture of manufacturing activities in Pakistan. Nonetheless this is, again, just about the only source of basic information.

Finally, the autor wishes to express his gratitude to the Government of Pakistan, the UNDP Office in Islamabad, the various enterprises and others who generously cooperated with the UNIDO-IDE mission in 1984 of which he was a member

## CHAPTER 1 EARLY PHASE OF PAKISTAN'S INDUSTRIAL DEVELOPMENT (1947-60)

### 1. Independence and the "partition" of British India

1.01 Pakistan was created and simultaneously achieved independence through the "partition" of British India into India and Pakistan in August, 1947 (from the latter Bangladesh achieved independence in 1971). At the time of independence Pakistan had virtually no industrial base worth mentioning as she had inherited from the pre-partition India only 1,414 industrial units out of 14,677 and only 206,000 industrial employees out of 3,242,000. Most of the industrial units Pakistan inherited were of small scale and at the time of independence there were only 6 industrial units with employees over 10,000.

### 2. Basic policies of industrialization

1.02 The government of Pakistan announced in 1948 its first Industrial Policy Statement. It opted as the first step of industrialization for agro-based manufacturing industries such as cotton spinning, jute spinning, food processing, and other light industries. Some of these were export-oriented but the basic industrial strategy was to establish and develop import substitute industries for consumer goods not only because the country was badly deficient in them but also because there was absolutely no industrial base for production of capital or intermediate goods.

1.03 The Industrial Policy Statement of 1948 laid major emphasis on private initiative. The government's major role was to assist the private sector by providing incentives, financial assistance, markets and adequate infrastructure facilities. In other words, the public sector's role was more of promotional nature and, therefore, the government was to invest only in areas of national importance where the private sector was not forthcoming. The public sector's role in the early phase of Pakistan's industrial development will be dealt with more in detail in paragraphs 1.08-1.10.

### 3. Growth of the cotton textile industry

1.04 It can safely be said that the cotton textile industry in the private sector pioneered the process of industrialization in Pakistan in the late 1940's and the 1950's despite the fact that the country's cotton textile sector had, at the time of independence, only 17 factories, 4,824 looms, 180,000 spindles, and 20,000 employees. During the several years after independence Pakistan exported raw cotton and imported cotton yarn and cloth as she had no export surplus in these products.

1.05 However, the Korean War of 1950 and the rapid deterioration of the foreign trade balance position after the end of the war in

1952 altered Pakistan's economic scene to a great extent. There had been a rapid growth of commercial capitalists during the war years due to the tremendous amount of special procurements, and strict restrictions were placed on importation of foreign goods including cotton products. The resulting price hike in cotton products allured the newly emergent national capitalists to invest in the cotton manufacturing industry. The government, therefore, provided various incentives such as low rates of interest, liberal depreciation allowances, tax holidays, and basic infrastructure facilities. Also the government protected the domestic market with high tariff barriers. When the government devalued the Pakistani rupee by 43.1 percent from Rs.3.31 down to Rs.4.76 to US\$1 in August, 1955, a month after the First Five-Year Plan was launched, industrialists were protected by lower import tariff on machinery and other industrial inputs while the prices of import goods increased greatly.

1.06 Table 18 shows that due to all these factors and due to the growth of cotton textile industry in Pakistan importation of cotton yarn and cloth decreased rapidly and that she even started exporting these products in 1951/52. By the end of 1955 the country had 26,000 looms with 1,700,000 spindles. This year was a turning point, so to speak, in the country's cotton manufacturing industry inasmuch as the government announced its decision to promote it as an export-oriented industry.

1.07 The cotton textile industry also proved to be an excellent example for other industries for the training of entrepreneurship and industrial management. It is a well-known fact that the cotton textile industry became the main vehicle for further industrialization of Pakistan with its industrial know-how and by generating surplus investible funds for other industries.

#### 4. Role of the PIDC

1.08 The basic industrialization policy put forward in the Industrial Policy Statement of 1948 bore fruit in the development of the cotton textile industry and other consumer goods industries. However, other industrial sectors, especially heavy industry and chemical industry were left out by the private sector. The government, therefore, filled the gap by creating the Pakistan Industrial Development Corporation (PIDC) in 1950, which established basic industries. These included shipyards, chemical plants, fertilizer factories, paper mills, heavy machinery plants, etc.

1.09 The PIDC was an autonomous body under the control of the government. Its major objective was to establish industries of national importance which the private sector was reluctant to initiate due to high risks involved and long gestation periods required and the resulting delayed returns. The PIDC later offered its industrial units to intending investors in the private sector at concessional rates, thus stimulating private investment in these areas.

## 5. Industrialization during the First Five-Year Plan

1.10 Pakistan entered an era of planned development with the launching of the First Five-Year Plan (1955/56 - 59/60). The pivotal role in drawing the plan was played by a group of experts from Harvard University, U.S.A. The PIDC played an active role in preparing the industrial base for further industrialization by investing in new areas and by stimulating private investment in various industries. In the initial years of industrialization and during the First Five-Year Plan period such new consumer goods came on stream as beverage, art silk, rayon cloth, etc. and a few chemical products like soda ash and sulphuric acid. The First Five-Year Plan also witnessed rapid growth of cotton textile, sugar, cement and other industries as well as expansion of the economic infrastructure.

### CHAPTER 2 INDUSTRIAL GOLDEN ERA

#### 1. The "decade of growth."

2.01 The ten years, especially the first five years, under the Ayub Khan regime saw the most dynamic and rapid economic growth in Pakistan's history. Table 1 shows that during this decade (1960/61 - 69/70), Gross Domestic Product grew by 92.2 percent, manufacturing by 157.0 percent, per capita gross income by 45.3 percent in real terms (at constant factor cost of 1959/60), respectively.

2.02 The Ayub regime's industrial strategy was framed along the same line as the Industrial Policy Statement of 1948. The new Industrial Policy Statement announced in February, 1959, also laid major emphasis on private initiative for industrialization. The Ayub regime created a firm system in order to carry on with more strength the traditional development efforts by launching the Second Five Year Plan (1960/61 - 64/65), and the Third Five-Year Plan (1965/66 - 69/70), promoting exports through the newly-created "Export Bonus Scheme," obtaining far more greater foreign economic assistance than before, expanding public industrial investment by reorganization of the PIDC and diversification of investment, and so on.

2.03 The Second Five-Year Plan (1960/61 - 64/65) with a total outlay of Rs. 23 billion, which was more than double the actual investment during the First Plan period, allocated Rs. 4,238 million or 18.4 percent of the total plan outlay to the industrial sector, and thus envisaged an industrial growth of 60 percent over the plan period. This period marked accelerated economic growth with an annual GNP growth of 6.8 percent and an overall 11.7 percent per annum industrial growth (Table 1) against the level of 5.2 percent achieved during the First Plan period. The share of the manufacturing sector in GNP rose from 12.0 percent in 1959/60 (at current factor cost) to 14.4 percent in 1964/65. The share of the large-scale manufacturing sector in GNP increased from 6.9 percent in 1959/60 to 10.3 percent in 1964/65, while the share of the small-scale

manufacturing sector declined from 5.1 percent to 4.1 percent during the same period.

2.04 The Third Five-Year Plan (1965/66 - 69/70) with a total outlay of Rs.52 billion allocated Rs. 12,770 million or 24.6 percent of the total plan outlay to the industrial sector, and thus envisaged an industrial growth of 10.2 percent per annum. The plan achieved an industrial growth of 8.1 percent per annum against the plan target mentioned above in spite of a number of retarding factors as the Second Indo-Pakistan War of September, 1965, and the resulting slowdown in foreign assistance. The Third Five-Year Plan as a whole achieved a GNP growth of 6.8 percent per annum against the target of 6.5 percent.

2.05 The two plan periods mentioned above were a decade of growth for the Pakistani economy. As for the industrial sector, the Second and the Third Five-Year Plans laid the foundation for further industrial growth. During this decade production of consumer goods such as sugar, vegetable ghee, art silk, rayon yarn, electric fans, bicycles, etc. witnessed a rapid growth. Besides, chemical products such as soda ash, caustic soda, and sulphuric acid, began to be produced although not on a very great scale as yet. By the end of the 1960's Pakistan was producing over 90 percent of consumer goods and about 90 percent of intermediate goods domestically demanded, thanks to the continued growth of import substitute industries. The capital goods industries, too, showed a steady growth over the entire decade with the PIDC playing a pivotal role.

## 2. Concentration of economic power

2.06 The "partition" of British India created in the present-day Pakistani territory "economic vacuum", so to say, due to the flight of most Hindu capitalists to the present-day India. Small-scale Muslim commercial capitalists began to fill the vacuum by investing in commercial activities and certain consumer goods manufacturing industries. Most of them were migrant merchants from the present-day India or other areas like Burma and East Africa, although a small percentage of them were indigenous inhabitants of the present-day Pakistan.

2.07 These Muslim commercial capitalists transformed themselves rapidly into industrial capitalists by investing in cotton-related or jute-related manufacturing industries. Especially, the capital accumulated during the Korean War boom mentioned in paragraph 1.05 was intensively invested in the still embryonic cotton textile industry. Positive investors of this period thus succeeded in emerging as leading industrial capitalists. They also invested in capital goods industries run by the PIDC.

2.08 The cooperation between the public and private sectors was further enhanced during the Ayub regime of the 1960's. The political and economic power of these newly-emergent industrial capitalists grew to such an extent that Dr. Mahboobul Haq, the then chief economist of the Planning Commission and the present



Planning Minister, declared and accused in April, 1968, that Pakistan's economy is controlled by "twenty families." He pointed out that the twenty capitalist families possessed 66 percent of the whole industrial assets, 70 percent of the insurance industry, and 80 percent of the banking industry in Pakistan. "The twenty families" Dr. Haq mentioned came to be known later as "the twenty-two families," and the concentration of economic power in their hands created political dissatisfaction among the masses. Tables 7 and 8 amply show how forty-three business groups, which included "the twenty-two families," dominated the industrial structure in the 1960's.

### 3. Economic disparity between West and East Pakistan

2.09 From a different angle, it can be said that economic power was concentrated in West Pakistan. Although East Pakistan's ratio in the total amount of yearly export was between 50 to 70 percent since independence, East Pakistan's share in total import, on the other hand, remained between 20 to 35 percent as compared to between 80 to 65 percent for West Pakistan. One cause for this disparity was that most of the major capitalists established their bases in West Pakistan, where the capital city Karachi was situated. (The capital city was shifted to Islamabad in 1967 but still it was in West Pakistan.) About 65 to 80 percent of the development expenditure was invested in West Pakistan between 1950/51 - 1969/70, while East Pakistan received only 35 to 20 percent. The industrial development in West Pakistan resulted in West Pakistan's domination of East Pakistan's market. Observers of Pakistan's political and economic situation have pointed out disparities of various other kinds between the two "wings" of Pakistan. Suffice it say here, however, that the concentration of economic power in West Pakistan and the disparities between the two wings were also responsible for the political commotion both in East and West Pakistan touched upon in the next paragraph.

2.10 The Ayub regime had to show in the late 1960's signs of concern about the concentration of economic power and the disparities between the two wings and began to take necessary measures. The policy measures, however, could hardly be put into practice due to the political upheaval both in West and East Pakistan, which began in October, 1968. The political upheaval in East Pakistan led to the fall of the Ayub regime in March, 1969, a civil war in East Pakistan, the Third Indo-Pakistan War, and the independence of Bangladesh in 1971. Efforts to curb the concentration of economic power could not be started until the Bhutto regime came into power in late 1971.

## CHAPTER 3 INDUSTRIAL STAGNATION UNDER THE YAHYA AND BHUTTO REGIMES

### 1. The Fourth Five-Year Plan

3.01 The Fourth Five-Year Plan (1970/71-74/75) launched by the Yahya Khan regime envisaged a total investment of Rs. 71 billion

but collapsed due to the unprecedented cyclone in East Pakistan of November, 1970, which killed tens of thousands of people, continuation and worsening of civil commotion in East Pakistan, and finally the war with India in December, 1971, and the independence of East Pakistan as Bangladesh. As for the industrial sector (of the then West Pakistan), it grew only by 2.5 percent in fiscal 1970/71 (July-June).

## 2. Period of deceleration under the Bhutto regime

3.02 The Bhutto regime which came into power in December, 1971, when General Yahya Khan resigned the presidency, claimed itself to be a socialist regime and undertook various economic and social reforms. The most far-reaching reform in the economic field was the nationalization of thirty-two private industrial units under ten "basic categories," namely (1) iron and steel industries, (2) basic metal industries, (3) heavy engineering industries, (4) heavy electrical industries, (5) assembly and manufacture of motor vehicles, (6) tractor plants, (7) heavy and basic chemicals, (8) petro-chemical industries, (9) cement industries, (10) public utilities, i.e., (a) electricity generation, transmission and distribution, (b) gas, and (c) oil refineries. The thirty-two industrial units are listed in Table 9. These nationalized industrial units were managed by the BIM (Board of Industrial Management) specially established for this purpose. The ten industrial state corporations under the BIM are listed in Table 10.

3.03 The basic philosophy behind the industrial nationalization was fair distribution of wealth and economic power "for the people, by the people's government." However, it is doubtful how far this was achieved. The industrial nationalization was far more politically motivated than it intended "rational" economic growth, and it rather shattered the confidence of the private industrial investors. This resulted in flight of capital out of Pakistan, and at best in investment in sectors like trade, construction, immovable assets, etc.

3.04 The drastic shift of emphasis from the private to the public sector decelerated the economy by narrowing down the area of economic activities for the private sector. This process was worsened by the industrial indiscipline among laborers. Planned economy had to be abandoned and the development activities were carried out on an ad hoc yearly basis.

3.05 Bhutto's government did frame a five-year plan, i.e. "the Fifth Five-Year Plan (1975/76 - 79/80), but it was abandoned before it was officially announced due to a very poor prospect of foreign aid inflow. The Six-Year Plan (1977/78 - 82/83) was never framed although the steering committee was appointed in October, 1976.

3.06 After all, the five and half years under the Bhutto regime witnessed a serious deceleration of the economy, especially the industrial sector. The average yearly GNP growth was 4.9 percent

during the 1971/72-1976/77 period, but the industrial growth remained at the level of 3.0 percent per annum. Fiscal 1971/72 saw for the first time in Pakistan's history a negative industrial growth of 3.5 percent. The large-scale manufacturing sector recorded a negative growth of 6.8 percent over the preceding year.

## CHAPTER 4 ZIA REGIME'S BASIC ECONOMIC POLICIES

### 1. Denationalization policy

4.01 The present Ziaul Haq regime, which came to power through the military coup d'etat of July, 1977, initiated total policy shifts. In September, 1977, two months after the coup d'etat, denationalization of agro-based industries such as rice husking mills and cotton ginning factories was announced.

4.02 In September 1978, state corporations were reorganized. The Board of Industrial Management mentioned in paragraph 3.02 was abolished and all the state corporations were placed under the control of the Ministry of Production. There are seven state corporations managing fifty-five industrial units as of March, 1985. These eight state corporations are listed in the next paragraph.

- 4.03 1) Federal Chemical and Ceramics Corporation (FCCC)
- 2) National Fertilizer Corporation (NFC)
- 3) Pakistan Automobile Corporation (PACO)
- 4) Pakistan Industrial Development Corporation (PIDC)
- 5) State Cement Corporation of Pakistan (SCCP)
- 6) Pakistan Steel Mills Corporation (PASMIC)
- 7) State Petroleum Refinery and Petro-Chemical Corporation (PERAC)
- 8) State Engineering Corporation (SEC)

4.04 It was expected by wide quarters in the early phase of the present regime that the thirty-two industrial units would be denationalized, but they were not. This was probably because the private sector capitalists were not willing to take them back. The productivity of the public sector industrial units was stagnant in general due to their heavy outstanding debts, overemployment, outdated machinery, lack of engineers, and the laborer's low morale. The government had, therefore, to keep them in the public sector. The situation mentioned above appears to be improving in recent years.

### 2. Islamization of the economy

4.05 The Zia regime has since its inception been trying to "Islamize" the Pakistani society. The Islamization of the economy includes collection of zakat and ushr (both being Islamic taxes), joint projects with other Islamic countries, interest-free banking, etc. The most shocking to private investors was the interest-free banking system which came into full operation on the first of July, 1985, the first day of fiscal 1985/86.

Suffice it to say here that the private sector capitalists are still not without concern about the possibility of deterioration of the investment climate due to the Islamization policies, although they are no doubt with far more confidence than under the previous regime seeing that the present regime has been trying seriously to stimulate private investment.

### 3. Resumption of long-term planning

4.06 The previous regime's development activities did not appear to be well coordinated as they were carried out on an ad hoc yearly basis. The present military regime made an unequivocal commitment to resume long-term planned development efforts. This shift in policy and the policy of "mixed economy" resulted in the fifth Five-Year Plan dealt with in paragraph 4.08.

4.07 The concept of "mixed economy" declared in the Fifth Five-Year Plan is entirely different from the "mixed economy" that the previous regime publicized off and on as its nationalization policy began to show signs of retreat. The first such case in the concrete was the decision announced in October, 1976, to denationalize rice mills. However, the previous regime's concept of "mixed economy", in which the public and private sectors play complementary roles, still tilted heavily to the public sector. The present regime's concept of "mixed economy", on the other hand, lays major emphasis on the private sector. It was emphasized in the Fifth Plan that the public sector would give priority to the completion of on-going projects and that it would not initiate new large-scale industrial projects.

4.08 The Fifth Five-Year Plan (1978/79-82/83) with a total outlay of Rs.226 billion allocated Rs.45.6 billion or 20.2 percent of the total plan outlay to the industrial sector, and thus envisaged an industrial growth of 12.0 percent per annum. It was not expected much of the Fifth Plan at its beginning, but the general political stability and the government's more liberal policy toward the private sector led to a GNP growth of 6.6 percent per annum during the plan period against the target of 7.0 percent (Table 1). The industrial sector's growth per annum was 10.3 percent and that of the large manufacturing sector recorded 11.1 percent. These figures are below the targets but they are certainly great improvements over the period under the previous regime touched upon in paragraphs 3.02-3.06.

4.09 This was partly because the private sector industrial investment gradually picked up during the plan period, the total private investment recording an annual growth rate of 9.7 percent. The share of private investment in total investment increased from 26 percent in 1977/78 to 53 percent in 1982/83.

## CHAPTER 5 MANUFACTURING IN THE PAKISTANI ECONOMY

### 1. GDP, value added, and growth rates

5.01 Table 2 shows the structure of national income of Pakistan. According to this table agriculture produced 24.7 percent (provisional) of GDP in 1984/85, followed by 19.7 percent produced by the manufacturing sector. The large-scale manufacturing sector occupies a large share (73.4 percent) in the total manufacturing sector, covering 14.5 percent of GDP. When industry-related sectors like mining and quarrying, construction, electricity and gas distribution are added to the manufacturing sector, the share they occupy in the GDP turns out to be 27.9 percent, which exceeds the agricultural sector. In any case, it is recalled here that the manufacturing sector's share in the GDP in the early days of Pakistan's independence was only 8 percent or so.

5.02 As we noted earlier (Chapter 1) the Government of Pakistan opted for industrialization soon after achieving independence in 1947 and recorded an industrial growth of 7.7 percent per annum during the 1949-50 -59/60 period. This is a very high figure but it must be remembered here that it is so partly because of its being a comparison with the extremely low level of production capacity at the initial stage.

5.03 It was during the "industrial golden era" or the 1960's, especially the Second Five-Year Plan (1960/61-64/65) period, that the Pakistani economy witnessed an impressive growth. Table 1 shows that the GDP growth rate per annum during this period (1960/61-69/70) records 6.8 percent and that of the manufacturing sector was 9.9 percent in real terms. As for the GDP (or GNP) and industrial growth rates of the period of economic deceleration under the Yahya and Bhutto regimes and the period of restoration under the present Zia regime, we shall not go back to these periods as they are dealt with in Chapters 3 and 4.

## 2. Employment

5.04 It is extremely difficult to grasp the precise employment situation of the labor force in Pakistan. Official data are scarce in this field, and labor force surveys are simply sample surveys in many cases.

5.05 According to Pakistan Economic Survey 1982-83, the labor force population of 1982/83 was only 29.2 percent of Pakistan's total population of the same year. The basic reason for this low ratio of labor force is that the size of the Pakistani economy is still small and, therefore, it does not offer abundant employment opportunities.

5.06 Table 13 shows estimated sectoral employment. Agricultural sector (including forestry, hunting and fishing) absorbs 51.8 percent of the employed labor force in 1984/85. The manufacturing sector (including mining and quarrying) absorbs 15.0 percent. When industry-related sectors other than mining and quarrying, i.e., construction, electricity, gas and water sectors, are added to this figure, the sum turns out to be 21.5 percent.

According to Pakistan Economic Survey 1982-83 employment in the agricultural sector mentioned above showed an annual increase of only 2.4 percent during the 1971/72-1981/82 period, while the manufacturing sector with the mining and quarrying sector showed an annual increase of 3.3 percent during the same period.

5.07 Emigration Statistics 1983 of the Bureau of Emigration of the Government of Pakistan shows that 1,067,414 workers migrated out of the country through the official channel, mainly to oil-producing countries in the Persian Gulf region. This figure, however, does not include those who migrated through unofficial channels. Taking this fact into account and with the help of Emigration Statistics 1983 mentioned above and the sample surveys carried out by the Pakistan Institute of Development Economics (PIDE) in October 1979 and January 1980, it can be estimated that there are between 1.7 to 2 million Pakistani workers abroad. This outflow of workers has worked on the demand-and-supply relationship of domestic labor force to a certain extent. For instance, rise in wages has been observed in Pakistan's domestic labor market, especially in the cases of engineers, electricians, machinery operators, plumbers, brick layers and so forth.

### 3. The manufacturing Sector and foreign trade

5.08 The industrial sector has a heavy weight in Pakistan's export business. The percentage share of manufactured goods in Pakistan's export was 55.5 percent in fiscal 1984/85 (provisional). Manufactured goods together with semi-manufactured occupy 73.4 percent of the total export value.

5.09 Of all the exports of manufactured goods cotton cloth fetches the greatest amount of foreign exchange. Its percentage share in the total export value of manufactured goods was 24.3 percent in the two-year period of 1982/83-83/84. (Table 20) Next comes cotton yarn with 17.5 percent as its share. The percentage share of other major manufactured goods are: readymade garments and hosiery=14.3 percent, synthetic textiles=12.2 percent carpet and rugs=12.2 percent.

5.10 A decision was taken in 1979 to set up an export processing zone on the outskirts of Karachi on an area of about two hundred hectares with the prime objective of attracting foreign investment, acquire modern technology, and to promote industrial production, especially to boost up export of manufactured goods.

5.11 As of 1983/84 nineteen investment proposals with a total investment of US \$ 61.17 million. have been approved by the Export Processing Zone Authority. These projects are in the fields of engineering, light chemicals, ceramics, printing and packaging, electrical and electronics, readymade garments, etc. The investment proposals have come from Saudi Arabia, U.A.E., Kuwait, U.S.A, U.K. et al. These projects are expected to generate employment opportunities for 3,029 workers besides increasing export potential by another US\$ 146.44 per annum. Several projects have now gone into production.

## CHAPTER 6 STRUCTURE OF MANUFACTURING

### 1. Number of establishments in manufacturing

6.01 According to Census of Manufacturing Industries(CMI)1980-81 the food manufacturing industries(including beverage industries and tobacco manufacturing) and the textile industry(manufacturing of textiles and manufacture of wearing apparel) together occupy 39.8 percent of the reporting industrial establishments, the former occupying 14.4 percent and the latter 25.4 percent. Manufacture of machinery and manufacture of fabricated metal followed with 7.2 percent each. The figures in CMI should ,however , be treated with great reservation and utmost care as was mentioned in the INTRODUCTION.

### 2. Fixed assets

6.02 As for the fixed assets of the sub-sectors of the manufacturing industry, the textile industry(manufacture of textiles and manufacture of wearing apparel ) is by far the largest with 26.1 percent of the total fixed assets of the reporting establishments in CMI 1980-81.The textile industry, the food manufacturing industry(including beverage industries and tobacco manufacturing) (20.4 percent),manufacture of chemicals(industrial and other)(19.8 percent),and manufacture of non-metallic mineral products(2.3 percent)together occupy 68.6 percent of the total fixed assets of reporting establishments.

6.03 A look at the size of average fixed assets of one establishment in each industrial sub-sector reveals that petroleum refining is by far the largest with RS. 248,629.3 thousand to one establishment.Manufacture of chemicals(industrial and other) Rs.19,730.5 thousand rupees to one establishment),manufacture of paper and paper products (Rs.9,946.2 thousand ) posses a great amount of fixed assets. The textile industry (manufacture of textiles and manufacture of wearing apparel ) (Rs. 6,120.4 thousand ) and food manufacturing industry (including beverage industries and tobacco manufacturing)(Rs. 8,627.8 thousand ),on the other hand,are not very much above the average figures of Rs. 5,955.1 thousand to one establishment.

### 3. Employment structure

6.04 The number of employees is important in order to grasp the structure of manufacturing. Any industry with a great capacity to absorb labor force is of great importance in Pakistan afflicted with the problem of oversupply of labor force. The number of employees in the textile industry(manufacture of textiles and manufacture of wearing apparel) is 191,436 or 42.4 percent of the total number of employees of reporting industrial establishments in CMI 1980-81(Table 11),confirming the

overwhelming importance of this industry in the Pakistani economy. It is unofficially estimated that the number of employees in the textile industry will reach 500,000 if the employees of non-reporting establishments and family-employed workers are included here. Table 11 shows also that the food manufacturing industry (including beverage industries and tobacco manufacturing) employs over 70,000 workers. Manufacture of chemicals) industrial and other) employs over 20,000 workers.

6.05 Table 14 shows structural characteristics of the Pakistani industry looked at from the viewpoint of viewed in accordance with the employment size. Establishments with employees less than fifty number 2,790, occupying 73.1 percent of all the reporting establishments. The number of establishments with employees less than one hundred is 3,157 occupying 20.8 percent of the same. On the other hand, there are only 207 establishments with employee over five hundred, occupying only 5.4 percent. Assuming for the time being that establishments with less than fifty employees are of small scale, those with over five hundred are of large scale, and those in between are of medium scale, it can be said that the medium scale and small-scale industrial establishments form an overwhelming majority (94.6 percent) of industrial establishments in Pakistan.

6.06 As to large-scale establishments with over two thousand employees, there are only thirty-one of them in the textile, paper, steel, machinery except electrical, electrical machinery, and transport equipment sectors. The textile industry occupies twenty establishments out of the thirty-one.

6.07 The size of employment and productivity, however, do not necessarily go together. According to CMI 1980-81 medium-scale industrial establishments show high figures as to the wage level, fixed assets and value added. Small-scale establishments with less than twenty employees and large-scale establishments with over two thousand employees show the lowest per capita figures.

#### 4. Value added.

6.08 A look at the yearly per capita value added shows that petroleum refining and tobacco manufacturing show very high figures compared with other sub-sectors. The average per capita value added for all industries is Rs. 63.5 thousand according to CMI 1980-81 (Table 14), while the case of petroleum refining is Rs. 699.3 thousand (more than 11 times larger than the average) and that of tobacco manufacturing is Rs. 290.6 thousand (4.6 times as large as the average). On the other hand, traditional manufactured goods produced by small-scale industries show very low per capita value added as Rs. 44.9 thousand for footwear, Rs. 45.1 thousand for wood and cork products, Rs. 48.3 thousand for furniture and fixtures, and only Rs. 24.4 thousand for sports and athletic goods (calculated from Table 14).



## 5. Regional distribution of manufacturing industry

6.09 Table 19 shows amply that Pakistan's industrial production capacity is concentrated in the Punjab and Sind Provinces. These two provinces occupy 95.1 percent of the reporting establishments in CMI 1980-81, 90.7 percent of the total fixed assets, 92.6 percent of the labor force employed, 93.0 percent of the value of production, and 90.8 percent of the value added. Contrary to this, the other two provinces, especially Baluchistan, are totally backward in industrial development.

6.10 Within the Punjab Province, Lahore and Faisalabad Cities' weight is heavy when the number of establishments and employees are concerned. The two cities' percentage share in the former adds up to 42.1 percent (of the province) and the latter 32.1 percent. Rawalpindi City, on the other hand, boasts of the first position with a percentage share of 19.4 percent when it comes to industrial value added.

6.11 Karachi City shows, however, an overwhelming weight just not in the Sind Province but in the whole country. Karachi's percentage share in the number of reporting establishments in Sind is 80.0 percent ( 32.6 percent in Pakistan as a whole ), 56.8 percent in fixed assets (25.3 percent, Pakistan), 74.4 percent, in the number of employees ( 31.5 percent, Pakistan), 75.6 percent in value of production ( 40.3 percent, Pakistan), and 67.2 percent in value added ( 32.3 percent, Pakistan).

6.12 In the Sind Province Hyderabad and Dadu cities are industrial centers next to Karachi, although they are by no means comparable with Karachi. In the North West Frontier Province, Peshawar produces 56.6 percent of the industrial value added of the province. The Baluchistan Province is negligible. The Sixth Five-Year Plan ( 1983/84-87-88) provides several measures to uplift the province.

## 6. Small-scale industries

6.13 A small scale industry in Pakistan is defined as including industrial units with fixed assets, excluding land and building, whose organized value does not exceed Rs. 5 million .

6.14 According to Pakistan Economic Survey 1984-85 small-scale industries account for 26 percent of value added in manufacturing and about 5 percent of GDP. The small-scale industries are entirely in the private sector and its share in industrial employment is over 80 percent. The growth rate of small-scale industries was 3 percent in the 1970's but accelerated over time and attained 7.5 percent in the first half of the 1970's and is 8.5 percent since 1975/76.

6.15 Small-scale industries, which employ nearly 2 million workers, require smaller amounts of capital, and being labor-intensive, provide more job opportunities than large-scale, industries. Another advantage of this sector is that the small-

scale industries almost entirely rely on domestic raw materials and locally-fabricated machinery, thus contributing greatly to the domestic economy.

6.16 Small-scale industries, although they cover a whole range of products from textile, to edible oils to sophisticated engineering goods, lack a clear concept of quality control. Since they also lack in access to knowledge of foreign markets, the export potential of the small-scale sector remains unrealized. The Sixth Five-Year Plan (1983/64-87/), therefore, pays due attention to this sector.

#### 7. Sub-sector.

6.17 Cotton textile industry Although the importance of the textile industry including the cotton textile industry has been declining, it is still a premier industry with its percentage shares of 16.8 percent in the total value added in the manufacturing sector by the reporting establishments in CMI 1980-81 and 42.4 percent in the number of total industrial employees of the same reporting establishments (Table 11). According to the Pakistan Economic Survey 1984-85 cotton textile account for about a quarter of value added in manufacturing and 41 percent of total manufactured exports. Cotton yarn and cloth and textile made-ups that the cotton textile industry produces are still important exchange earners through export, although the share of the cotton textile industry of total export has declined to around 20 percent in the recent years from 31.1 percent in 1956/57 (Table 18) and 46.9 percent in 1968/69.

6.18 The cotton textile industry has faced a crisis in recent years due to import restrictions by foreign countries, poor labor relations, lack of access to credit, aging equipment, and so on. Productivity of the cotton textile industry is very low as shown by the following figures. The yearly per capita value added of workers of the textile industry including the cotton textile industry (i.e. manufacture of textiles and manufacture of wearing apparel) as calculated from Table 14 is Rs.25.2 thousand and , which is only 39.7 percent of the average per capita value added for all industries. Likewise, the per capita value of production of the textile industry is 42.7 percent of the average.

6.19 Searching analysis is being made by the Government and the all Pakistan Textile Manufacture' Association (APTMA) and the current Sixth Five-Year Plan has formulated a long-term policy to reactivate the cotton textile industry as it represents the very pulse of the country's economic activity.

6.20 Food Processing Industry The food processing industry also has a very heavy weight next only to the textile industry. The five industries shown in Table 17-1 are the important sectors of the food processing industry. Out of the five, vegetable ghee and sugar are the most important.

6.21 There are now forty-four vegetable ghee factories in

operation, out of which eighteen are in the private sector. The sugar industry now produces over 1 million tons of refined sugar, which is a great achievement compared with only 17,000 tons at the time of independence. There are now thirty-six factories operating, and the Sixth Five-year Plan envisages construction of ten new factories each with an annual production capacity of 800,000 tones.

6.22 Chemical Industry Pakistan's manufacture industrial and other chemicals is negligible as yet compared with other important industries. As for chemical fertilizer, however, Pakistan has achieved a rather fast growth as can be seen from Table 17-5, one reason being that Pakistan relies heavily on chemical fertilizers. There are now nine fertilizer factories, of which two are in the private sector and account for almost half the total output.

6.23 Cement industry Pakistan's cement industry has a long history that goes back to the 1920's when the present-day Pakistan was part of British India. Investment in the cement industry after the creation of Pakistan was initiated by the PIDC mentioned in paragraphs 1.08 and 1.09. There are now thirteen cement factories under the State Cement Corporation of Pakistan producing 4.67 million tons (1984/85 estimation) against a demand of 5.90 million tons. The Sixth Plan envisages production capacity of 7.76 million tons by the end of fiscal 1987/88, when the demand is forecasted to be 7.31 million tons.

6.24 Steel industry Pakistan Steel under the Pakistan Steel Mills Corporation (PASMIC) started full operation in January, 1985. Its ground work was initiated in 1973 but construction of the steel mill per se was begun in 1976.

6.25 Pakistan Steel, set up at a total cost of Rs. 24,700 million is an integrated steel mill with a capacity of 1.1 million tons per year of raw steel. The mill has a built-in potential to expand annual production capacity to 2.0 million tons. The main products of the mill are coke, pig iron, billets, hot rolled sheets, cold rolled sheets, galvanized sheets, formed sections and by-products. Pakistan Steel is expected to bring about a major structural change in Pakistan's metal-based industries.

## CHAPTER 7 PAKISTAN'S CURRENT EFFORTS FOR INDUSTRIALIZATION

### 1. The Sixth Five-Year Plan

7.01 The Sixth Five-Year Plan (1983/84-87/88) aims at consolidation of the objectives of the Fifth Five-Year Plan. One of the major objectives of the new plan is privatization of the economy. Of the total fixed investment of Rs. 469.4 billion (out of a gross investment of Rs. 527.0 billion) 42.6 percent or Rs. 200.0 is planned to be made in the private sector. The percentage share of the private sector has been greatly increased compared to 34.4 percent targeted in the Fifth Five-Year Plan. The Plan thus envisages a GDP growth of 6.5 percent per annum.

7.02 An allocation of Rs. 82 billion has been made for the industrial sector. Out of this Rs. 82 billion, Rs.62 billion or 75.6 percent is envisaged to be made over the plan period in the private sector. By the end of the plan period 85.2 percent of industrial investment is expected to be made in the private sector. This is indeed a great shift in the private sector's role in industry when the case of fiscal 1977/78 is recalled. The private sector's actual share in industrial investment in that fiscal year was only 23.9 percent. The Plan thus envisage an industrial growth of 9.3 percent per annum.

7.03 In November, 1984, it was widely reported in the Pakistani press that the Sixth Five-year Plan "collapsed" and was abandoned in favor of a three-year rolling plan. The government has, however, denied since then abandonment of the plan although it has downward revision of the Sixth Five-Year Plan. The situation remains to be seen.

## 2. The Industrial Policy Statement of 1984

7.04 A new Industrial Policy Statement was announced in June, 1984, being the third such Statement since independence. The salient features of the Statement are as follows.

(1) No nationalization of any private sector industry in future.

(2) The pattern of "mixed economy" to be followed with the public and private sectors playing complementary roles.

(3) The private sector to play a major role in future industrialization.

(4) Full security for foreign investment and adequate compensation for acquisitions.

7.05 The Industrial Policy Statement of 1985 tries also to promote joint ventures in areas where effective technical and managerial know-how should be introduced. Besides, the Policy Statement has provided a wide variety of concessions to intending overseas Pakistani investors. Business quarters in general appear to wait and see and whether private investors response or not seems at present to depend heavily on the political situation and its future outlook.

Sector	GROSS NATIONAL PRODUCT AT CONSTANT FACTOR COST OF 1950-00 (Million Rupees)								
	1950-60	1964-65	1969-70	1970-71	1976-77	1977-78	1982-83	1983-84 (R)	1984-85 (P)
1. Agriculture	7,711	9,270	12,574	12,188	14,002	14,308	17,000	16,527	18,158
2. Mining & Quarrying	70	122	157	150	200	212	310	320	374
3. Manufacturing	2,018	3,514	5,180	5,318	6,350	6,906	11,445	12,360	13,420
Large Scale	1,150	2,523	4,042	4,090	4,477	4,066	8,407	9,073	9,850
Small Scale	850	991	1,144	1,228	1,873	2,830	3,038	3,293	3,570
4. Construction	427	1,020	1,357	1,300	2,070	2,248	2,803	3,007	3,249
5. Electricity & Gas Distribution Services	87	172	330	741	1,143	1,244	1,910	2,240	2,408
6. Transport, Storage and Communication	952	1,588	2,026	1,970	2,060	3,025	4,351	4,021	4,861
7. Wholesale & Retail Trade	2,105	3,100	4,457	4,400	5,700	6,260	9,070	9,420	10,390
8. Banking and Insurance	160	320	570	635	1,124	1,250	1,708	2,019	2,145
9. Ownership of Dwellings	837	970	1,112	1,140	1,418	1,400	1,754	1,817	1,883
10. Public Administration and Defence	1,048	1,405	2,030	2,133	4,135	4,657	6,100	6,633	7,200
11. Services	1,411	1,782	2,160	2,270	3,080	3,310	4,387	4,630	4,905
12. Gross Domestic Product	10,820	23,300	32,330	32,434	41,870	45,054	61,600	63,723	69,098
13. Net Factor Income from Abroad	-23	-61	2	-72	1,205	2,075	4,077	3,897	3,449
14. Gross National Product	10,803	23,200	32,338	32,362	43,165	47,729	65,677	67,620	72,547
15. Population (in million)	45.03	51.70	59.70	61.40	74.33	70.60	80.12	61.88	64.73
16. Per Capita Gross Income (in rupees)	373	450	542	520	581	623	737	738	760

**TABLE 2 GROSS NATIONAL PRODUCT AT CURRENT FACTOR COST**

Sector	(Million Rupees)									
	1959-60	1964-65	1969-70	1970-71	1976-77	1977-78	1982-83	1983-84 (R)	1984-85 (P)	
1. Agriculture	7.711	10.438	15.004	10.230	43.846	50.311	80.113	80.181	105.663	
2. Mining & Quarrying	70	140	220	243	1,281	1,317	4,110	4,704	5,912	
3. Manufacturing	2.018	3.700	0.930	7.570	22.070	20.004	02,281	75,033	84,452	
Large Scale	1,150	2,704	5,427	5,872	10,201	10,101	45,740	55,712	61,007	
Small Scale	850	1,002	1,530	1,748	0,778	7,833	10,532	20,221	22,455	
4. Construction	427	1,103	1,882	1,070	7,513	0,074	15,501	10,017	20,430	
5. Electricity & Gas Distribution Services	87	200	001	782	1,010	2,448	7,051	8,107	8,845	
6. Transport, Storage and Communication	052	1,850	2,043	3,014	0,250	11,207	25,000	20,403	33,334	
7. Wholesale & Retail Trade	2,105	3,000	0,475	0,800	20,440	24,210	53,011	60,380	71,520	
8. Banking and Insurance	100	348	771	882	3,573	4,273	0,241	11,830	13,476	
9. Ownership of Dwellings	837	1,083	1,014	1,752	5,043	5,031	10,250	11,500	12,792	
10. Public Administration and Defence	1,048	1,058	2,700	2,003	10,371	13,155	25,553	32,044	30,105	
11. Services	1,411	1,020	3,134	3,475	11,000	13,572	27,308	31,305	35,574	
12. Gross Domestic Product	10,820	20,202	43,345	45,702	137,832	101,852	320,708	373,050	428,178	
13. Net Factor Income from Abroad	-23	-55	3	-02	5,480	12,130	30,305	30,004	37,282	
14. Gross National Product	10,803	20,147	43,348	45,020	143,312	173,001	300,103	413,320	465,460	
15. Population (in million)	45.03	51.70	59.70	61.40	74.33	76.60	80.12	91.88	94.73	
16. Per Capita Gross Income (in rupees)	373	505	720	742	1,020	2,271	4,143	4,498	4,914	

TABLE 3 ANNUAL GROWTH RATES AT 1959-60 FACTOR COST

Year	Agriculture	Manufacturing	Total Commodity Sector	All Services	G D P	G N P
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1950/51-1954/5	1.05	10.30	2.67	3.90	3.14	3.16
1955/56-1959/60 (1st Plan)	2.11	5.16	3.02	3.14	3.07	3.04
1960/61-1964/6 (2nd Plan)	3.75	11.73	6.47	7.28	6.73	6.76
1965/66-1969/70 (3rd Plan)	6.29	8.10	7.14	6.70	6.72	6.78
1970/71-1976/7 (4th Plan)	1.55	2.93	2.57	5.52	3.76	4.21
1977/78-1981/8 (5th Plan)	3.97	10.53	6.33	7.13	6.74	7.11
1982-83	3.52	9.25	5.37	7.21	6.13	7.02
1983-84	-3.14	8.05	1.21	3.23	3.43	2.93
1984-85	9.87	8.57	6.82	7.67	6.43	7.23
1985/86-1984/85	2.20	8.32	3.03	7.14	3.00	3.03

\* Provisional  
SOURCE: Ibid.

TABLE 4 SECTORAL GROWTH OF GROSS DOMESTIC PRODUCT

(Percent Per Year)

	1976-77 to 1983-84	1983-84 Revised	1984-85 Provisional	1984-85 Target
Agriculture	2.40	-3.14	9.87	10.20
Major Crops	1.42	-14.17	14.18	15.00
Minor Crops	2.82	3.60	3.30	..
Others	3.97	3.32	3.64	4.60
Manufacturing	10.00	8.03	8.57	9.20
Large Scale	10.32	7.92	8.33	8.90
Small Scale	8.33	8.40	8.40	10.00
Mining	5.77	2.13	14.72	..
Construction	5.33	8.17	4.90	..
Electricity & Gas	10.15	17.33	7.07	..
Wholesale and Retail Trade	7.44	3.33	10.19	9.50
Transport & Communications	8.27	3.21	3.19	..
Public Administration and Defence	6.93	7.25	10.04	..
Others	6.09	7.93	3.40	3.30
GDP	6.18	3.43	8.43	3.50
GSP	6.52	2.93	7.29	7.50

Not available

SOURCE: Gov't of Pakistan, Federal Bureau of Statistics, Annual Plan 1984-85



TABLE 5 STRUCTURAL CHANGES IN GDP  
(AT CONSTANT FACTOR COST OF 1959-60)

Year	Share in GDP (%)				GDP
	Agriculture	Manufacturing	Total Commodity Sector	All Services	
1949-50	53.19	7.75	62.82	37.18	100.00
1954-55	48.02	10.84	61.43	38.57	100.00
1959-60	45.83	12.00	61.29	38.71	100.00
1964-65	39.68	15.04	60.39	39.61	100.00
1969-70	38.88	16.04	61.58	38.42	100.00
1974-75	33.19	15.52	56.09	43.91	100.00
1976-80	31.02	13.22	53.01	46.99	100.00
1980-81	30.19	13.94	53.83	46.17	100.00
1981-82	29.32	13.06	53.59	46.41	100.00
1982-83	28.59	13.56	53.44	46.56	100.00
1983-84	28.94	13.41	54.24	45.76	100.00
1984-85 <sup>P</sup>	28.28	13.42	54.44	45.56	100.00

P: Provisional.

SOURCE: Pakistan Economic Survey 1984-85.

**TABLE 6 GROSS FIXED CAPITAL FORMATION BY ECONOMIC ACTIVITIES AT CURRENT PRICES (Rm. million)**

Sector	1964-66	1969-70	1971-72	1977-78	1982-83	1983-84	1984-85
						(R)	(P)
<b>Total</b>	6064.3	8835.0	8813.3	30505.0	56741.8	63762.1	74657.8
<b>Private</b>	3230.0	3493.3	3545.0	10263.8	21738.4	25254.0	29750.7
Agriculture	301.1	476.1	535.2	3400.2	5486.5	6708.0	7510.2
Mining and Quarrying	15.2	17.5	18.0	40.1	66.1	72.8	78.4
Manufacturing Large scale	1147.0	1208.2	1010.3	1486.7	4008.3	5520.1	7204.5
Manufacturing Small scale	135.4	187.7	210.1	634.4	1344.2	1472.0	1502.1
Construction	38.3	61.0	28.1	104.0	485.0	322.2	477.2
Electricity and gas	205.3	108.3	71.3	2.0	-	-	-
Transport & communication	540.2	514.7	606.0	1227.3	1030.3	2300.4	3115.4
Banking, insurance & other financial institutions	30.4	51.5	33.2	13.4	115.2	93.6	71.5
Ownership of dwellings	478.0	502.3	603.0	2034.0	5808.5	6304.0	6638.1
Services	272.8	300.0	413.0	1221.2	2338.3	2540.0	2673.3
<b>Public</b>	2833.7	3341.7	3267.4	20251.2	35003.4	38238.1	44907.1
Government enterprises	215.8	314.8	262.0	1083.2	2687.9	2740.1	3033.6
Railway	100.0	210.2	114.2	656.1	1340.7	1065.1	1353.4
Post office, telegraph & telephone department	100.8	95.0	147.8	428.1	1338.2	1084.0	1080.2
Autonomous & semi autonomous organizations	1889.0	1903.4	2088.4	13610.1	19500.2	20934.0	25187.0
Indus Basin	1042.0	1024.8	981.2	856.0	986.5	508.0	205.2
Rural Works Programme	70.7	99.2	38.1	73.4	414.5	320.5	345.9
Banking, insurance & other financial institutions	0.7	8.0	10.3	202.1	414.1	563.8	519.6
Mining and quarrying	0.5	8.3	10.6	336.8	222.2	824.3	1920.0
Manufacturing large scale	128.0	177.1	90.0	6133.3	5110.7	5685.5	3603.6
Manufacturing small scale	4.1	2.1	1.0	10.2	20.7	14.9	15.5
Electricity and gas	173.3	155.8	410.1	2777.8	6105.3	6130.3	7009.9
Others	457.1	488.1	530.7	3122.5	6214.2	6821.0	10588.3
General Government	728.0	63.5	917.0	6067.0	12725.3	14564.1	16885.9
Federal	128.5	352.0	352.3	2311.1	4312.5	5008.2	6745.0
Provincial	407.2	559.0	373.4	2804.0	6625.7	7567.9	7823.8
Local	193.2	151.0	191.3	451.9	1787.1	1918.0	2110.5

R: Revised  
P: Provisional.

TABLE 7 CONTROL OF INDUSTRIAL AND MANUFACTURING ASSETS IN PAKISTAN, 1968 (Rs. million)

	All Non-Financial Assets Listed on the Karachi Stock Exchange (1)	All Non-Financial Assets Listed on the Karachi and Dacca Stock Exchange (2)	All Manufacturing Assets Listed on the Karachi and Dacca Stock Exchange (3)	All Manufacturing Assets, Listed and Unlisted (4)
1. Dawood	557.8	557.8	557.8	557.8
2. Saigol	529.8	529.8	528.9	556.5
3. Adamjee	437.6	450.9	450.9	473.2
4. Jalil(Amin)	418.8	418.8	418.8	418.8
5. Shaikh	325.4	325.4	318.5	342.7
6. Fancy	280.4	280.4	215.4	330.5
7. Valika	320.2	320.2	252.8	252.8
8. Bavany	237.4	237.4	237.4	237.4
9. Bashir(Crescent)	199.5	199.5	199.5	199.5
10. Vazir Ali	132.7	132.7	132.7	178.5
11. Ghandara	153.2	153.2	153.2	163.2
12. Ispahani	90.6	90.6	90.6	154.0
13. Habib	128.1	128.1	126.2	136.2
14. Khyber Textile Group	127.5	127.5	127.5	127.5
15. Nishat Group	64.6	64.6	64.6	125.9
16. BECO	113.6	113.6	113.6	113.6
17. Gul Ahmed	21.1	21.1	21.1	109.2
18. Arz (Haji Habib)	32.4	32.4	32.4	105.4
19. Hafiz	100.1	100.1	100.1	105.3
20. H. A. Karim	95.4	95.4	95.4	95.4
21. Millwala	-	-	-	95.0
22. Hyesons	68.4	63.4	63.4	94.3
23. Dada	48.0	48.0	48.0	90.3
24. Premier Group	77.3	77.3	77.3	89.3
25. Hussein Ebrahim	88.4	88.4	88.4	88.4
26. Monnoo	7.9	7.9	7.9	79.4
27. Haulabakh	53.9	53.9	53.9	79.3
28. Acaz	45.1	45.1	45.1	78.1
29. A. K. Khan	-	18.0	18.0	74.3
30. A. A. Ghani	41.2	41.2	41.2	71.2
31. Saragconwala	44.5	44.5	44.5	68.3
32. Haroon	13.1	13.1	13.1	65.1
33. Mirajina	-	-	-	61.3
34. Shaffiq	60.2	60.2	60.2	61.2
35. Fakir Chand	-	59.9	59.9	60.9
36. Haji Hassan	33.3	33.3	33.3	60.8
37. Dacabhoj	-	-	-	59.3
38. Shahnavaq	35.3	35.3	35.3	59.3
39. Faten Textile Group	52.7	52.7	52.7	52.7
40. Noon	35.0	35.0	35.0	45.0
41. Hoti	40.5	40.5	40.5	45.8
42. Ghulam Faruque	36.7	36.7	36.7	36.7
43. Haji Dost Mohd.	20.4	20.4	20.4	31.5
Total, Largest 4 *	1944.0	1957.3	1953.4	2006.3
Total, Largest 10 *	3450.1	3473.4	3333.0	3547.7
Total, Largest 20 *	4472.2	4495.3	4354.0	4224.4
Total, Largest 30 *	4982.7	5010.7	4868.6	5024.6
Total, All 43	5155.2	5253.1	5124.0	5314.5

SOURCE: L.J. White, Industrial Concentration and Economic Power in Pakistan.  
 \* Totals refer to largest 4, 10, etc. in that column.

TABLE 8 PERCENTAGE CONTROL OF ALL MANUFACTURING ASSETS LISTED ON THE KARACHI AND DACCA STOCK EXCHANGES, 1968 (Rs. million)

	All Assets Rs. 8,531.3	All Assets of Privately Controlled Firms Rs. 7,520.5	All Assets of Pakistan- Controlled Firms Rs. 7,043.0	All Assets of Private Pakistan- Controlled Firms Rs. 0,632.8
Largest 4 Groups	1,950.4	22.0	20.0	20.6
Largest 10 Groups	3,333.0	30.1	44.3	50.3
Largest 20 Groups	4,354.0	51.0	57.0	65.0
Largest 30 Groups	4,808.0	57.1	64.7	73.4
All 43 Groups	5,124.0	60.1	68.1	77.3

SOURCE: Ibid.

**TABLE 9 INDUSTRIAL UNITS TAKEN OVER IN 1972**

Industrial Units	Paid-up Capital (Rs. million)	Name of industrial group	New names after take-over
Steel Corporation of Pakistan Ltd., Karachi	12.98	Fancy	Metropolitan Steel Corporation Ltd.
Hyesons Steel Mills Ltd., Karachi	9.05	Hyesons	Karachi Pipes Mills Ltd.
BECO Industries Ltd., Lahore	50.48	BECO	Pakistan Engineering Co. Ltd.
M.K. Foundry & Engineering Ltd., Lahore	8.42	Ghandhara	Northern Foundry & Engineering Works Ltd.
Ittefaq Ltd., Lahore	7.04	-	Lahore Engineering & Foundry Ltd.
General Iron & Steel Works Ltd., Karachi	7.00	A. Abdullah	Quality Steel Works Ltd.
Valika Steel Works Ltd., Karachi	0.35	Valika	People's Steel Mills Ltd.
Model Steel Mills Ltd., Lahore	1.90	S. M. Abdullah	Pioneer Steel Mills Ltd.
Karimi Industries Ltd., Novshera	5.00	Boadshah	Novshera Engineering Co. Ltd.
Arokey Chemicals Industries Karachi	9.42	Shaffi	Pakistan PVC Ltd.
Indus chemical & Alkalies Ltd., Karachi	17.50	Khyber	Sind Alkalies Ltd.
Valika Chemicals Industries Ltd., Karachi	28.21	Valika	Synthetic Chemicals Co. Ltd.
Kohinoor Rayon Ltd., Lahore	60.00	Saigol	Ravi Rayon Ltd.
Kohinoor Engineering Ltd.	0.50	Saigol	Ravi Engineering Ltd.
United Chemicals, Lahore		Saigol	Ittehad Chemicals Lahore
Insecticides (Pakistan) Ltd., Lahore		Saigol	Ittehad Pesticides Ltd., Lahore
Israil Cement Industries Ltd., Lahore	34.45	Shaikh	Gharibval Cement Ltd.
Valika Cement Ltd., Karachi	22.00	Valika	Javedan Cement Ltd.
Pakistan Cement Industries Ltd., Ravalpindi	23.12	Shaikh	Muscatmas Cement Industries Ltd.
Pakistan Progressive Cement Industries Ltd., Karachi	0.10	Harjina	National Cement Industries Ltd.
Ali Autos Ltd., Karachi	5.00	Wazir Ali	Avani Autos Ltd.
Ghandhara Industries Ltd., Karachi	14.71	Ghandhara	National Motors Ltd.
Ghandhara Diesels Ltd., Lasbela	5.00	Ghandhara	Bela Engineers Ltd.
Haroon Industries Ltd., Karachi	4.53	Haroon	Republic Motors Ltd.
Jaffer Industrial Corporation Ltd., Karachi	0.50	Jaffer	Trailer Development Corporation Ltd.
Kandavala Industries Ltd., Karachi	4.00	Kandavala	Naya Daur Motors Ltd.
Rena Tractors and Equipment Ltd., Lahore	2.25	Chinoy	Millat Tractors Ltd.
Wazir Ali Engineering Ltd., Karachi	0.20	Wazir Ali	Sind Engineering Ltd.
Pakistan Fertilizer Co. Ltd., Karachi	0.001	Jaffer	Not changed
National Refinery Ltd., Karachi	32.20	Amin	Not changed
Karachi Gas Co., Ltd., Karachi	28.13	Fancy	Not changed
Multan Electric Supply Co. Ltd., Multan	2.96	Shaikh	Not changed
Rawalpindi Electric Power Co., Rawalpindi	7.07	S.B.H. Khan	Not changed
Muzaffargarh Electric Co., Muzaffargarh		-	Not changed

SOURCE: Gov't of Pakistan

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TABLE 10 STATE CORPORATIONS MANAGING  
NATIONALIZED INDUSTRIES (1974)

Corporations	Number of industrial units managed
Federal Chemical & Ceramics Corporation	12
Federal Light Engineering Corporation	8
National Design & Industrial Services Corporation	-
National Fertilizer Corporation of Pakistan	7
Pakistan Automobile Corporation	11
Pakistan Industrial Development Corporation	7
Pakistan Steel Mills Corporation	1
State Cement Corporation of Pakistan	8
State Heavy Engineering & Machine Tool Corporation	3
State Petroleum Refining & Petrochemical Corporation	1

**TABLE 11 SUMMARY STATISTICS BY MAJOR INDUSTRY GROUPS AND FIXED ASSETS SIZE**

(Value in '000 rupees)

	No. of reporting establishments	Value of fixed assets at the end of the year	Average daily employment during the year	Employment cont. during the year	Value of production during the year	Census value added during the year
<b>ALL INDUSTRIES</b>	<b>3,815</b>	<b>22,718,734</b>	<b>451,710</b>	<b>5,023,813</b>	<b>84,288,327</b>	<b>28,002,120</b>
Food manufacturing	404	4,207,300	52,400	725,404	17,532,230	5,771,027
Beverage industries	35	202,037	3,044	55,354	993,550	523,203
Tobacco manufacturing	20	100,377	13,003	130,310	4,850,125	3,804,984
Manufacture of textiles	914	5,787,033	187,208	1,753,545	14,039,184	4,571,335
Manufacture of wearing appare	50	140,718	4,228	60,203	607,050	254,530
Manufacture of leather and l	61	150,433	4,583	40,970	1,194,050	305,080
Manufacture of footwear excep	19	57,223	5,072	60,470	558,076	227,702
Ginning, pressing and balling	261	31,344	12,007	105,127	5,678,248	703,987
Manufacture of wood and wood	22	100,472	1,743	18,007	100,722	78,062
Manufacture of furniture and	35	25,941	920	12,421	85,470	44,432
Manufacture of paper and pape	38	377,950	8,283	128,972	1,109,142	424,925
Printing, publishing and alli	139	329,959	8,410	85,283	554,904	215,739
Manufacture of drugs and phar	103	302,080	11,228	228,891	2,054,641	1,235,720
Manufacture of industrial che	30	4,120,700	12,748	305,422	3,200,117	1,589,437
Manufacture of other chemical	148	308,853	9,078	141,008	1,995,207	700,861
Petroleum refining	3	745,888	2,820	64,185	12,505,002	1,972,112
Manufacturing of miscellaneou	12	30,235	802	12,013	480,637	140,142
Manufacture of rubber product	52	107,318	5,040	67,984	788,007	277,317
Manufacture of plastic produc	31	87,000	1,003	20,084	225,130	85,790
Manufacture of pottery, china	17	85,071	1,958	21,271	101,921	55,285
Manufacture of glass and glas	28	91,258	3,177	33,478	106,348	95,707
Manufacture of non-metallic m	69	1,522,332	11,781	295,404	2,737,787	1,690,903
Iron and steel basic industri	197	891,802	18,180	257,614	3,309,056	1,143,101
Non-ferrous metal basic indus	14	8,003	527	6,910	55,503	13,050
Manufacture of fabricated met	272	235,411	10,222	128,121	923,601	303,080
Manufacture of machinery exc	273	680,238	13,710	201,395	1,424,318	491,348
Manufacture of electrical mac	185	527,000	10,721	254,870	2,655,640	994,080
Manufacture of transport equi	122	752,562	22,735	412,778	2,419,210	708,142
Manufacture of scientific, pr	45	33,959	2,543	26,034	163,626	68,798
Manufacture of photographic a	7	8,183	247	3,379	57,071	15,589
Manufacture of sports and ath	22	13,201	1,119	10,445	89,311	27,342
Other manufacturing industrie	41	27,687	1,794	22,405	212,109	78,235

SOURCE: Government of Pakistan: Census of Manufacturing Industries 1980-81.

TABLE 12 CHANGES IN OUTPUT AND INDUSTRIAL EMPLOYMENT

	Change in output at constant prices of 1959-60		Change in Employment	
	(million Rs.)	(percentage)	(million numbers)	(percentage)
1961 to 1969-70	2,760	134.2	1.03	00.2
1969-70 to 1974-75	950	18.3	0.00	0.0
1974-75 to 1978-79	1,421	23.2	0.07	24.5
1978-79 to 1982-83	3,886	51.4	0.40	14.4

SOURCE: Pakistan Economic Survey 1984-85.



	(percentage)			
	1971-72	1982-83	1983-84	1984-85
Agriculture, Forestry, Hunting and Fishing	57.3	52.1	51.9	51.8
Manufacturing (including Mining and Quarrying)	12	14.9	14.9	15
Electricity, Gas and Water	0.4	0.7	0.7	0.7
Construction	3.4	5.7	5.7	5.8
Wholesale and Retail Trade Hotels and Restaurants	9.7	11.6	11.6	11.7
Transport, Storage and Communication	4.8	4.7	4.7	4.7
Services (Finance, Insurance, Real Estate, etc.)	11.2	10.4	10.4	10.2

SOURCE: Ibid.

TABLE 14-1

TABLE 14  
SUMMARY STATISTICS BY MAJOR INDUSTRY GROUPS AND EMPLOYMENT SIZE  
(PAKISTAN)

Industry major groups and employment	No. of Reporting establishment	Value of fixed assets at the end of the year	average daily employment during the year	Employment cost during the year	(value in 1000 rupees)	
					Value of production during the year	Census value added during the year
<b>ALL INDUSTRIES</b>	<b>3,815</b>	<b>22,710,734</b>	<b>451,710</b>	<b>5,023,813</b>	<b>84,288,327</b>	<b>28,092,120</b>
Upto 9 persons	715	150,784	4,072	34,014	088,752	109,854
From 10 to 19 persons	1,133	458,487	10,100	135,572	2,748,207	550,080
From 20 to 49 persons	042	1,077,834	20,024	325,310	8,264,003	1,705,158
From 50 to 99 persons	387	1,110,500	20,743	312,188	0,830,777	19,254,444
From 100 to 249 persons	278	1,072,217	45,433	054,108	14,018,725	3,300,782
From 250 to 499 persons	153	4,711,408	55,105	787,391	11,588,027	4,080,238
From 500 to 999 persons	117	5,050,727	85,082	1,238,400	20,752,500	0,808,080
From 1000 to 1999 persons	50	4,450,152	80,782	087,505	12,204,302	0,035,413
From 2000 to 4999 persons	28	2,000,074	85,050	037,041	5,033,070	2,100,522
5000 & above persons	3	800,542	21,122	211,000	800,730	335,340
<b>Food manufacturing</b>	<b>404</b>	<b>4,207,300</b>	<b>52,408</b>	<b>725,404</b>	<b>17,532,230</b>	<b>5,771,927</b>
<b>Beverage industries</b>	<b>35</b>	<b>202,037</b>	<b>3,844</b>	<b>55,354</b>	<b>003,550</b>	<b>523,203</b>
<b>Tabacco manufacturing</b>	<b>20</b>	<b>100,377</b>	<b>13,003</b>	<b>130,310</b>	<b>4,850,125</b>	<b>3,804,084</b>
<b>Manufacture of textiles</b>	<b>014</b>	<b>5,787,033</b>	<b>187,208</b>	<b>1,753,545</b>	<b>14,030,184</b>	<b>4,571,335</b>
Manufacture of wearing apparel except footwear	50	140,718	4,228	00,203	007,050	254,530
Manufacturing of leather and leather products, leather substitutes & fur, except footwear and wearing apparel	01	150,433	4,583	40,070	1,104,050	305,080
Manufacture of footwear except vulcanised or moulded rubber plastic footwear	10	57,223	5,072	00,470	558,070	227,702
Ginning, pressing and baling of fibre	201	313,344	12,007	105,127	5,078,248	703,987
Manufacture of wood, and wood and cork products except furniture	22	100,472	1,743	18,807	100,722	78,002
Manufacture of furniture and fixtures except primarily of metal	35	25,041	020	12,421	85,479	44,432
Manufacture of paper and paper products	38	377,050	0,283	128,072	1,100,142	424,925

TABLE 14-2

Printing, publishing and allied industries	130	320,050	8,410	85,288	554,904	215,739
Manufacture of drugs and pharmaceutical products	103	302,080	11,228	228,801	2,054,041	1,235,720
Manufacture of industrial chemicals	80	4,120,700	12,740	305,422	3,200,117	1,580,437
Manufacture of other chemical products	140	308,853	0,078	141,008	1,095,207	706,801
Petroleum refining	3	745,888	2,820	04,185	12,505,002	1,972,112
Manufacture of miscellaneous products of petroleum and coal	12	30,235	802	12,013	480,037	140,142
Manufacture of rubber products	52	107,318	5,040	07,084	788,007	277,317
Manufacture of plastic products n.e.c.	31	87,000	1,003	20,084	225,130	85,700
Manufacture of pottery, china and earthenware	17	85,071	1,050	21,271	101,921	55,285
Manufacture of glass and glass products	28	01,258	3,177	33,478	190,348	95,707
Manufacture of non-metallic mineral products	00	1,522,332	11,701	205,404	2,737,787	1,096,063
Iron and steel basic industries	107	891,892	10,180	257,014	3,309,050	1,143,101
Non-ferrous metal basic industries	14	8,093	527	0,910	55,503	13,050
Manufacture of fabricated metal products except machinery and equipment	272	235,411	10,222	128,121	923,001	303,089
Manufacture of machinery except electrical	273	089,238	13,710	201,305	1,424,318	401,348
Manufacture of electrical machinery apparatus appliance and supplies	185	527,000	10,721	254,876	2,055,040	094,980
Manufacture of transport equipment	122	752,502	22,736	412,778	2,410,210	708,142
Manufacture of scientific, precision and measuring instrument & equipment	45	33,050	2,543	20,034	103,020	68,708
Manufacture of photographic & optical goods	7	8,183	247	3,370	57,071	15,580
Manufacture of sports and athletic goods	22	13,201	1,110	10,445	89,311	27,342
Other manufacturing industries	41	27,087	1,704	22,405	212,100	78,235

SOURCE: Census of Manufacturing Industries 1980B1.

**TABLE 15**  
**SHARES OF DIFFERENT MANUFACTURING INDUSTRIES IN VALUE ADDED**  
**IN THE MANUFACTURING SECTOR**

Industry	1954	1959-60	1969-70	1980-81
1. Food Manufacturing	8.5	7.6	10.0	25.9
2. Manufacturing of beverages	0.4	0.3	0.1	0.8
3. Tobacco Manufacturing	5.5	5.3	6.1	3.4
4. Manufacturing of Textiles	46.7	39.1	28.5	23.3
5. Manufacturing of Footwear and other Wearing Apparel	3.5	2.4	3.8	3.0
6. Manufacturing of Paper and Paperboard		1.6	1.2	1.6
7. Printing and Publishing industries	2.7	2.4	5.4	2.3
8. Manufacturing of Leather and Leather Products except Footwear	2.4	0.7	2.2	1.7
9. Rubber and Rubber Products	0.9	0.8	0.7	1.6
10. Chemical and chemical Products	9.3	8.3	7.6	13.6
11. Non-Metallic Products	4.0	3.1	2.8	2.0
12. Basic Metal Industries	2.1	3.1	2.3	1.0
13. Manufacturing of Metal Products	2.1	3.3	3.7	1.3
14. Non-Electrical Machinery	0.6	2.1	2.0	1.0
15. Electrical Machinery	0.3	2.7	2.0	1.0
16. Transport equipment	1.1	2.4	2.0	1.0
17. Other Industries	3.0	10.5	10.1	10.0

SOURCE: Various Censuses of Manufacturing Industries

TABLE 18 MANUFACTURING OUTPUT

Item	Weight in Quan- tum Index (%)	Unit of Measurement	1970-77	1983-84	Annual Compound Growth Rate	July-March		% Increase
						1983-84	1984-85	
<b>INDUSTRIES IN THE PRIVATES SECTOR</b>								
Sugar	7.400	1000 Tonnes	730	1,151	8.0	1,053	1,150	10.1
Sea Salt	0.008	1000 Tonnes	130	205	5.8	155	127	-18.1
Beverages	0.010	1000 Dozen Bottles	28,878	80,100	15.7	43,820	31,231	-28.7
Cigarettes	4.500	Hillion Nos.	28,370	40,000	5.1	30,200	30,000	2.3
Cotton Yarn	13.900	Hillion Kgs.	202.0	431.0	0.2	331.0	307.0	-7.4
Cotton Cloth	13.000	Hillion Sq. Mts.	408.3	200.0	-4.5	232.0	202.8	-12.0
Jute Textiles	0.000	1000 Tonnes	33.9	70.7	13.0	58.0	44.3	-23.0
Motor Tyres and Tubes	0.223	1000 Nos	285	300	3.4	272	307	12.0
Cycle Tyres and Cycle Tubes	0.500	1000 Nos	7,502	0,008	3.9	7,204	8,448	17.3
Paints and Varnishes	0.250	1000 Ltrs	7,193	12,440	8.2	8,001	0,093	2.2
Polishes	0.017	Hillion Grams	004.1	1,000.0	8.8	777.0	030.0	-18.8
Safety Matches	0.090	Hillion Boxes	780.8	1,000.0	11.7	1,277.8	1,300.1	1.7
Sewing Machines	0.082	1000 Nos.	58.4	04.0	1.5	48.8	48.0	-0.4
Fans	0.400	1000 Nos.	175.8	201.0	1.0	121.0	..	..
Electric Bulbs	0.182	Hillion Nos.	14.0	30.8	13.8	20.7	33.0	25.8
Electric Tubes	0.080	1000 Htrs	413.0	3,143.0	33.0	2,280.0	2,540.0	11.4
Board	1.037	1000 Tonnes	21.0	01.8	10.2	45.8	50.2	0.0
Paper		1000 Tonnes	23.0	43.0	9.0	31.8	37.2	17.0
<b>INDUSTRIES IN PUBLIC SECTOR</b>								
Vegetable Ghee	2.7	1000 Tonnes	320	505	8.0	438	480	11.6
Cement	2.0	1000 Tonnes	3,071	4,503	5.0	3,250	3,341	2.5
Sulphuric Acid	0.2	1000 Tonnes	45.2	80.7	8.0	60.0	53.5	-10.8
Fertilizer (Potassic)	2.8	1000 H/Tonnes	13.4	01.8	31.0	00.8	02.0	-11.2
Soda Ash	0.4	1000 Tonnes	55.3	100.0	0.8	70.3	03.0	17.3
Caustic Soda	0.4	1000 Tonnes	24.0	30.7	0.9	30.3	29.0	-4.3
Mild Steel Products	2.7	1000 Tonnes	200.0	054.2	13.5	408.2	551.7	17.8
<b>INDUSTRIES IN BOTH PRIVATE AND PUBLIC SECTORS</b>								
Fertilizer (nitrogenous)	2.8	1000 H/Tonnes	312.3	1,014.0	18.3	730.7	711.0	-3.5
Bicycle	0.3	1000 Nos.	211.5	440.2	11.3	327.3	301.8	10.5

SOURCE: Pakistan Economic Survey 1984-85.

TABLE 17-1

TABLE 17-1  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Food and Tobacco				Beverages 1000 dozen Bottles	Cigarettes Million Nos
	sugar 1000 ton	Vegetable ghee 1000 ton	Sea Salt 1000 ton			
1948	13	3	144	-	-	241
1949	17	4	184	-	-	1,488
1950	22	6	221	-	-	2,761
1951	31	8	172	-	-	3,170
1952	49	11	184	-	-	3,996
1953	48	13	238	-	-	4,372
1954	48	13	274	-	-	4,434
1955	61	17	262	-	-	4,907
1956	82	18	255	-	-	5,861
1957	128	21	179	-	-	6,694
1958-59	124	28	161	-	-	6,638
1959-60	84	29	209	-	-	8,172
1960-61	55	37	227	..	..	9,505
1961-62	124	51	233	..	..	10,501
1962-63	203	68	200	..	..	10,833
1963-64	157	85	188	9,706	..	12,785
1964-65	159	92	222	11,616	..	14,303
1965-66	377	102	196	12,295	..	15,859
1966-67	322	87	213	11,405	..	18,658
1967-68	252	94	214	11,181	..	20,024
1968-69	408	99	324	11,535	..	20,535
1969-70	610	125	252	13,237	..	22,369
1970-71	519	135	219	12,473	..	24,166
1971-72	375	192	240	15,067	..	21,772
1972-73	429	157	161	13,167	..	27,623
1973-74	608	225	111	15,033	..	27,477
1974-75	502	272	136	21,309	..	28,304
1975-76	530	277	151	26,361	..	27,454
1976-77	735	303	132	28,373	..	24,373
1977-78	861	300	124	41,363	..	31,304
1978-79	607	422	134	33,333	..	32,533
1979-80	535	452	137	43,333	..	34,333
1980-81	861	506	130	60,737	..	35,331
1981-82	1,301	531	204	69,444	..	33,132
1982-83	1,127	513	183	60,341	..	33,133
1983-84	1,151	595	205	80,100	..	40,033
July-March 1983-84	1,053	438	151	43,329	..	30,253
1984-85	1,159	489	107	31,031	..	30,969

SOURCE: Pakistan Economic Survey 1984-85.

Notes: Data upto 1957 relate calendar years. Figures coming under  
1948-49 seen for 1949 Calendar year and so on.

TABLE 17-2  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Textiles			
	Cotton Yarn	Cotton cloth Mill Sector	Art Silk & Rayon Cloth	Jute Textile
	Million Kg	Million sq Mts	Million Mts	1000 ton
1948	8.4	37.5	-	-
1949	12.1	46.3	-	-
1950	16.5	58.6	-	-
1951	22.4	88.0	-	-
1952	46.1	160.9	-	-
1953	77.9	236.0	-	-
1954	114.3	325.6	-	-
1955	123.6	366.5	11.8	-
1956	128.1	393.3	13.0	-
1957	138.4	427.3	11.0	-
1958-59	148.8	451.0	9.2	-
1959-60	160.4	29.0	209.0	-
1960-61	163.4	513.1	13.7	-
1961-62	165.7	534.4	13.6	-
1962-63	174.4	551.6	15.9	-
1963-64	198.5	579.6	32.2	-
1964-65	206.0	597.6	29.4	1.7
1965-66	194.0	544.6	32.2	3.5
1966-67	207.0	571.6	40.7	3.3
1967-68	224.6	597.7	65.0	6.6
1968-69	233.8	537.9	80.0	9.5
1969-70	273.2	505.5	71.9	33.1
1970-71	303.3	633.3	51.5	37.3
1971-72	335.7	623.2	9.2	30.2
1972-73	378.1	533.3	5.3	34.5
1973-74	338.5	572.5	8.7	36.5
1974-75	351.2	555.2	3.1	45.4
1975-76	346.3	522.2	9.2	42.0
1976-77	282.5	403.3	17.6	35.9
1977-78	267.2	391.3	15.6	32.4
1978-79	327.8	333.4	..	37.0
1979-80	322.2	342.3	..	41.8
1980-81	374.2	307.2	..	50.2
1981-82	430.2	325.0	..	56.0
1982-83	443.4	333.3	..	56.4
1983-84	431.3	296.5	..	79.7
July-March				
1983-84	331.6	252.0		53.0
1984-85	307.0	202.3		44.3

SOURCE: *ibid.*

Note: Data upto 1957 relate to calendar years. Figures coming under 1948-49 mean for 1949 Calendar year and so on.

TABLE 17-3  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Rubber and Cement				Cement 1000 ton
	Motor Tyres	Motor Tubes	Cycles Tyres	Cycles Tubes	
	1000 Nos				
1949	-	-	-	3	383
1950	-	-	-	112	395
1951	-	-	-	620	478
1952	-	-	-	784	501
1953	-	-	-	1,357	547
1954	-	-	-	1,862	632
1955	-	-	-	2,009	637
1956	-	-	-	2,186	732
1957	-	-	-	2,617	1,037
1958	-	-	-	2,636	1,032
1958-59	-	-	-	2,531	1,036
1959-60	-	-	-	3,079	982
1960-61	-	-	3,454	-	1,073
1961-62	-	-	4,127	-	1,238
1962-63	-	-	1,624	3,300	1,370
1963-64	-	-	1,795	3,363	1,408
1964-65	59	67	2,325	4,559	1,655
1965-66	60	65	1,939	2,990	1,633
1966-67	59	68	2,808	4,214	1,965
1967-68	84	96	2,574	3,300	2,163
1968-69	12	28	2,920	3,704	2,551
1969-70	109	115	3,171	3,555	2,656
1970-71	115	126	2,745	3,798	2,702
1971-72	100	85	2,037	2,453	2,605
1972-73	163	152	2,542	3,283	2,876
1973-74	249	177	3,252	3,862	3,145
1974-75	239	214	3,033	4,161	3,320
1975-76	166	177	3,180	4,219	3,196
1976-77	148	16	3,461	4,131	3,071
1977-78	182	159	3,675	5,020	3,224
1978-79	183	197	3,731	4,154	3,023
1979-80	204	201	3,937	5,147	3,343
1980-81	227	189	4,072	5,425	3,533
1981-82	193	136	4,304	5,449	3,657
1982-83	217	134	3,984	5,228	3,938
1983-84	238	122	3,735	6,173	4,503
July-March					
1983-84	177	95	2,725	4,479	4,119
1984-85	228	79	3,074	5,374	3,341

1960-61 Cycle Includes cycle Tubes

1961-62 Tyres

1949 Cycles Tubes included: 1948-49 to 1961-62



TABLE 17-4  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Chemicals						
	Soda Ash	Sulphuric Acid	Caustic Soda	Chlorine Gas	Paint & varnishes	Polishes & Creames for Footwears	Safety Matches 40-60 sticks Million Boxes
	1000 ton				1000 Litres	Million Grams	
1949	-	-	-	-	-	-	62.8
1950	-	-	-	-	-	-	60.5
1951	-	-	-	-	-	-	48.2
1952	-	-	-	-	-	-	2.7
1953	-	-	-	-	-	-	-
1954	27.2	-	-	-	-	-	75.5
1955	28.9	-	-	-	-	-	609.6
1956	25.3	1.0	0.9	-	-	-	428.4
1957	25.8	3.9	3.1	1.0	-	-	575.3
1958	26.9	6.2	3.9	1.4	-	-	299.2
1958-59	27.3	9.6	3.7	1.2	-	-	129.0
1959-60	27.0	12.2	4.4	1.3	-	-	78.3
1960-61	26.4	15.6	4.2	1.2	2,369	..	70.0
1961-62	25.8	16.4	3.7	1.1	2,289	..	63.8
1962-63	32.6	15.5	3.5	1.1	2,596	..	96.7
1963-64	29.4	18.5	5.4	1.6	3,987	..	147.0
1964-65	34.3	19.3	8.9	1.4	5,151	369.5	163.5
1965-66	32.0	22.1	8.1	1.7	5,296	410.2	205.5
1966-67	31.9	20.3	14.4	1.4	5,109	500.5	125.4
1967-68	58.2	25.2	19.6	1.5	6,043	516.9	164.6
1968-69	62.8	24.0	22.0	1.8	6,523	571.5	351.4
1969-70	67.8	31.5	28.4	2.3	6,771	541.2	176.0
1970-71	78.0	33.6	31.2	4.6	7,360	498.1	170.2
1971-72	76.8	35.0	34.3	5.5	5,985	526.5	241.1
1972-73	74.2	42.5	35.4	6.2	5,565	498.1	348.0
1973-74	81.2	34.0	37.5	6.4	6,147	462.2	372.2
1974-75	77.1	37.0	36.8	4.9	6,184	534.6	466.4
1975-76	78.6	46.2	38.3	5.5	7,123	507.2	592.6
1976-77	55.3	45.2	24.9	4.2	7,193	604.1	760.8
1977-78	63.3	56.5	35.0	5.7	7,924	641.4	1,139.4
1978-79	71.4	64.6	36.0	7.9	8,286	730.6	1,275.1
1979-80	79.4	66.5	39.9	8.6	8,031	904.1	1,444.3
1980-81	96.4	71.2	38.5	8.3	9,047	1,219.4	1,672.6
1981-82	107.2	71.8	40.5	7.9	9,694	866.9	1,337.2
1982-83	94.4	71.1	41.1	8.2	9,909	871.2	1,402.6
1983-84	106.6	80.7	39.7	8.5	12,449	1,089.6	1,689.9
July-March							
1983-84	79.3	60.0	30.3	6.4	8,901	777.0	1,277.5
1984-85	93.0	53.5	29.0	7.0	9,093	830.6	1,300.1

P-Provisional.

b-Safety matches containing all sorts of boxes since 1972-73.

.. Not available.

TABLE 17-5  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Fertilizer				
	Urea Yarn	Super Phosphosphate	Ammonium Nitrate	1000 ton Ammonium Sulphate	Nitro Phosphate
1948	-	-	-	-	-
1949	-	-	-	-	-
1950	-	-	-	-	-
1951	-	-	-	-	-
1952	-	-	-	-	-
1953	-	-	-	-	-
1954	-	-	-	-	-
1955	-	-	-	-	-
1956	-	-	-	-	-
1957	-	-	-	-	-
1958	-	1.4	-	-	-
1958-59	-	2.0	-	36.1	-
1959-60	-	0.9	-	42.8	-
1960-61	-	9.0	-	47.2	-
1961-62	0.7	0.7	8.0	9.5	-
1962-63	28.5	6.2	65.3	52.5	-
1963-64	40.3	6.7	61.3	49.9	-
1964-65	44.7	8.1	76.1	35.4	-
1965-66	41.7	8.0	74.8	39.0	-
1966-67	47.6	4.0	79.5	42.9	-
1967-68	42.7	16.1	76.9	46.8	-
1968-69	106.5	14.4	73.3	42.6	-
1969-70	206.3	23.3	83.7	53.3	-
1970-71	204.3	25.4	85.0	59.6	-
1971-72	304.7	27.5	76.0	66.8	-
1972-73	533.1	45.7	65.6	53.3	-
1973-74	575.5	2.5	63.5	90.4	-
1974-75	593.5	31.7	53.3	95.1	-
1975-76	605.3	53.6	70.3	89.3	-
1976-77	593.6	63.1	64.5	100.0	-
1977-78	534.9	75.0	47.1	95.6	-
1978-79	620.5	93.5	81.1	97.9	40.4
1979-80	640.5	101.2	199.0	98.9	137.2
1980-81	962.9	101.8	272.7	96.6	171.2
1981-82	1,223.5	102.7	321.4	94.0	210.5
1982-83	1,831.8	104.3	339.4	61.2	228.4
1983-84	1,797.6	105.7	383.0	73.0	316.5
July-March					
1983-84	1,336.2	81.5	275.0	47.0	230.1
1984-85	1,334.2	81.2	296.3	54.2	223.1

TABLE 17-6  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Transport, Machinery & Electrical Appliance							
	Bicycles	Sewing	Total	Pedestal	Ceiling	All other	Electric	Electric
	Ash	Machines	Fans	Fans	Fans	Fans (c)	Bulbs	Tubes
	1000 Nos						(Mil.Nos)	1000 metre
1949	..	..	..	..	..	..	..	..
1950	..	..	..	..	..	..	..	..
1951	..	..	..	..	..	..	..	..
1952	..	..	..	..	..	..	..	..
1953	..	..	..	..	..	..	..	..
1954	..	..	..	..	..	..	..	..
1955	..	..	..	..	..	..	..	..
1956	..	..	..	..	..	..	..	..
1957	..	..	..	..	..	..	..	..
1958	..	..	..	..	..	..	..	..
1958-59	..	..	..	..	..	..	..	..
1959-60	..	..	..	..	..	..	..	..
1960-61	..	..	..	..	..	..	..	..
1961-62	..	..	..	..	..	..	..	..
1962-63	..	..	..	..	..	..	..	..
1963-64	..	..	..	..	..	..	..	168.0
1964-65	97.7	47.9	..	..	..	..	6.8	82.0
1965-66	102.6	34.9	186.4	15.6	135.8	35.0	6.9	188.0
1966-67	137.6	39.2	208.9	16.7	149.7	42.5	7.8	321.0
1967-68	155.4	57.2	210.2	19.8	143.3	47.1	9.6	21.3
1968-69	169.8	80.5	166.3	19.2	112.4	34.7	9.0	250.0
1969-70	161.3	88.3	161.9	19.1	109.9	32.9	10.7	257.0
1970-71	159.7	84.6	215.7	28.4	146.2	41.1	10.5	396.0
1971-72	122.8	58.2	201.1	28.2	137.3	35.6	7.9	490.0
1972-73	221.7	66.4	223.0	34.1	152.7	38.2	10.7	585.0
1973-74	178.5	75.5	191.0	32.4	144.8	13.3	10.9	642.0
1974-75	210.4	55.5	193.2	37.5	140.7	14.9	15.0	504.0
1975-76	217.0	64.0	143.2	30.9	102.2	10.1	17.4	534.0
1976-77	211.5	58.4	175.8	30.7	127.8	17.3	14.9	413.0
1977-78	244.7	61.8	207.2	38.0	147.0	22.2	17.5	464.0
1978-79	230.1	62.3	207.4	38.6	150.9	13.0	20.6	1233.0
1979-80	237.4	67.3	238.5	66.7	201.0	20.8	20.3	1145.0
1980-81	327.3	65.1	245.3	40.9	186.6	17.3	34.2	1235.0
1981-82	399.1	67.2	215.6	30.1	150.3	25.2	41.1	1831.0
1982-83	448.8	64.0	132.1	10.9	111.1	10.2	23.5	2489.0
1983-84	448.2	64.9	201.0	29.5	154.7	16.6	36.8	3143.0
July-March								
1983-84	327.3	48.8	121.0	14.1	98.1	9.0	26.7	2289.0
1984-85	361.8	48.6	..	8.3	54.8	6.0	33.6	2549.0

R-Revised.

C-All sort of fans except pedestal and ceiling fans since 1978-77.

d.Data for July to January.

.. Not available.

TABLE 17-7  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Iron Steel and Papers Board						
	M.S. Product	Paper Board	Chip Board	Straw board	Printing Paper	Writing Paper	Packing and Other Paper
1000 ton							
1949	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-
1957	-	4.0	-	2.8	-	-	-
1958	-	6.1	-	3.7	-	-	-
1958-59	-	7.3	0.5	4.6	-	-	-
1959-60	-	7.9	1.5	4.5	-	-	-
1960-61	..	10.3	2.1	3.6	..	..	..
1961-62	..	10.7	2.1	5.8	..	..	..
1962-63	..	10.5	2.3	5.0	..	..	..
1963-64	..	13.1	2.3	5.1	..	..	..
1964-65	230.0	15.9	3.2	5.7	..	..	..
1965-66	186.7	14.7	4.6	4.9	..	..	..
1966-67	196.7	16.9	4.6	5.0	..	..	..
1967-68	178.9	17.1	3.7	4.2	..	..	..
1968-69	227.7	22.9	7.3	4.6	..	..	..
1969-70	180.0	25.6	10.8	1.5	..	..	..
1970-71	195.1	25.1	14.9	..	5.8	7.7	2.7
1971-72	165.5	20.2	14.1	..	9.0	10.3	5.7
1972-73	183.9	20.2	17.7	..	6.3	16.9	4.0
1973-74	218.1	21.5	14.4	..	4.8	15.6	3.7
1974-75	224.0	13.6	13.2	..	4.0	15.4	3.7
1975-76	230.7	9.7	11.4	0.1	2.4	15.1	2.7
1976-77	259.9	9.9	11.5	0.1	3.2	15.7	4.1
1977-78	315.2	12.2	10.2	..	2.8	17.3	1.5
1978-79	362.4	23.8	25.9	..	2.9	22.5	10.1
1979-80	420.9	25.3	25.0	..	3.7	20.4	9.9
1980-81	494.7	27.3	31.9	..	3.5	24.7	12.1
1981-82	550.8	23.6	31.1	..	4.5	28.5	11.9
1982-83	636.6	28.7	30.1	..	3.8	29.2	14.6
1983-84	654.2	29.8	32.0	..	4.1	26.1	13.4
July-March	..	..	..	..	..	..	..
1983-84	468.2	22.6	23.2	..	2.7	18.8	10.3
1984-85	551.7	24.0	25.2	..	2.4	23.1	11.7

.. Not available

TABLE 17-8  
PRODUCTION OF SELECTED MANUFACTURING INDUSTRIES

YEAR	Cotton Textile				
	No of reporting Mill	Installed Capacity		No of spindles 1000	No of looms 1000
		No of Spindles 1000	No of looms 1000		
1949	..	78	3	78	3
1950	..	137	3	137	3
1951	..	182	3	182	3
1952	..	225	3	225	3
1953	..	499	6	302	4
1954	..	649	9	603	7
1955	..	1,113	15	940	13
1956	..	1,449	23	1,355	19
1957	..	1,518	24	1,422	22
1958	..	1,568	25	1,447	22
1959	70	1,569	26	1,459	24
1958-59	72	1,581	26	1,488	24
1959-60	..	1,582	27	1,491	26
1960-61	..	1,586	27	1,531	26
1961-62	71	1,644	28	1,524	26
1962-63	76	1,850	29	1,810	25
1963-64	81	1,913	30	1,792	28
1964-65	83	1,967	31	1,852	28
1965-66	89	2,056	31	1,871	27
1966-67	94	2,043	30	1,888	28
1967-68	95	2,048	30	1,916	28
1968-69	100	2,175	30	2,090	27
1969-70	107	2,397	31	2,227	27
1970-71	113	2,605	30	2,491	27
1971-72	131	2,848	30	2,550	25
1972-73	150	3,225	29	3,057	27
1973-74	155	3,308	29	3,034	26
1974-75	143	3,410	29	2,822	25
1975-76	127	3,478	29	2,579	23
1976-77	135	3,544	29	2,550	19
1977-78	140	3,550	25	2,580	15
1978-79	152	3,704	27	2,772	14
1979-80	149	3,731	25	2,841	16
1980-81	158	3,983	25	3,176	13
1981-82	155	4,180	25	2,944	13
1982-83	158	4,255	24	3,062	14
1983-84	162	4,224	24	3,020	12
1984-85	160	4,282	23	3,031	12

.. Not available

TABLE 18 EXPORT AND IMPORT OF COTTON PRODUCTS

(Million Rupees)

	Export		Import		
	Raw cotton	Cotton cloth	Cotton yarn	Cotton cloth	Cotton yarn
1948/49	369.0	..	..	353.0	145.0
49/50	397.0	..	..	214.0	140.0
50/51	987.0	..	..	331.0	200.0
51/52	777.5	0.4	0.4	308.0	250.7
52/53	694.0	0.0	0.0	80.2	57.7
53/54	497.0	0.0	0.0	3.2	04.0
54/55	290.5	0.7	1.3	30.7	28.3
55/56	462.1	3.0	35.7	30.5	15.1
56/57	352.4	10.9	02.7	11.2	8.0

SOURCE: Pakistan Economic Survey (Various issues)

TABLE 19 DISTRIBUTION OF INDUSTRIAL CAPACITY

	(Million rupees)				
	Number of reporting establishments	Value of Fixed assets at the end of the year	Average daily employment during the year	Value of production during the year	Census value added during the year
Pakistan	3,813 (100.0%)	22,719 (100.0%)	451,710 (100.0%)	84,288 (100.0%)	28,692 (100.0%)
Punjab Province	2,070 (54.3%)	10,492 (46.2%)	226,861 (50.2%)	33,408 (39.7%)	12,274 (42.8%)
Rawalpindi	64	1,147	18,500	3,372	2,382
Jhelum	20	356	8,801	2,240	1,572
Lahore	532	940	35,810	4,698	1,535
Sheikhpura	133	1,304	22,075	4,897	1,411
Faisalabad	340	1,720	36,981	4,033	1,242
Sind Province	1,557 (40.8%)	10,100 (44.5%)	191,251 (42.3%)	44,937 (53.3%)	13,780 (48.1%)
Karachi	1,245	5,738	142,100	33,961	9,272
Hyderabad	94	561	17,182	3,317	1,058
Dadu	42	733	11,104	1,771	856
North West Frontier Province	164 (4.3%)	1,709 (7.5%)	28,081 (6.2%)	5,276 (6.3%)	2,445 (8.5%)
Peshavar	73	620	13,028	2,827	1,384
Baluchistan Province	24 (0.6%)	408 (1.8%)	4,017 (1.0%)	608 (0.7%)	185 (0.7%)

SOURCE: Census of Manufacturing Industries 1980/81.

TABLE 20 MAJOR EXPORTS BY VALUE AND QUANTITY

Commodity	1969-70	1971-72	1977-78	1982-83	1983-84	1983-84 (July- March)	1984-85 (July- March)
<b>1. Value (Million Rs.)</b>							
Fish & Fish Preparations	83	111	341	807	1,007	701	929
Rice	94	274	2,400	3,083	5,088	4,448	2,358
Hides and Skins	18	20	-	2	5	3	3
Raw Wool	27	25	73	100	171	104	181
Raw Cotton	210	955	1,102	3,807	1,772	1,530	2,420
Cotton Waste	14	27	10	82	195	138	102
Leather	109	174	637	1,195	1,072	1,310	1,710
Cotton Yarn	254	502	1,000	3,140	2,031	2,271	2,880
Cotton Thread	..	13	71	162	110	92	53
<b>2. Quantity: (Qty. unit)</b>							
Fish & Fish Preparations (H.Kg.)	23.5	22.2	13.4	10.0	27.0	10.0	20.0
Rice (000 H.T.)	91	198	870	905	1,205	983	530
Hides and Skins (000 Kg)	314	185	..	3	7	4	0
Raw Wool (H.Kg.)	0.7	4.3	4.0	7.1	8.2	5.2	7.7
Raw Cotton (000 H.T.)	84	190	101	255	98	80	135
Cotton Waste (H.Kg.)	13.0	21.0	2.8	8.9	18.5	13.5	9.3
Leather (H.Sq.H.)	13.7	10.7	8.7	10.7	10.0	12.1	11.0
Cotton Yarn (H.Kg.)	72.8	129.2	60.0	134.1	101.8	82.3	88.5
Cotton Thread (H.Kg.)	..	1.0	2.2	3.0	1.8	1.4	1.0
<b>1. Value (Million Rs.)</b>							
Cotton cloth	258	387	1,741	3,570	4,850	3,070	3,505
Petroleum & Products	49	41	620	985	543	491	359
Synthetic Textiles	17	12	154	2,708	1,452	902	464
Footwear	23	39	72	148	214	101	194
Animal Casings	15	10	20	53	50	37	49
Cement & Products	10	44	3	1	..	..	..
Guar & Products	20	30	203	288	322	228	250
Oil Cakes	12	3	90	-	-	-	-
Paints & Varnishes	0	5	8	7	32	10	10



2. Quantity: (Qty. unit)							
Cotton cloth (H. Sq. H.)	297.7	382.1	453.5	805.3	804.4	503.8	510.7
Petroleum & Products (000 H.T.)	120	551	750	363	185	170	104
Synthetic Textiles (H. Sq. H.)	10.9	8.3	31.3	140.2	88.1	43.7	10.3
Footwear (H. Pairs)	6.1	9.9	0.0	0.4	0.0	7.5	4.0
Animal Casings (000 Kg)	206	248	182	262	287	182	244
Cement & Products (000 H.T.)	341	500	4	1	-	-	..
Guar & Products (000 H.T.)	02	55	80	63	70	54	40
Oil Cakes (H. Kg.)	..	..	..	..	..	..	..
Paints & Varnishes (H. Kg)	2.4	2.2	0.7	0.5	1.3	0.0	0.4
1. Value (Million Rs.)							
Tobacco Raw & Manufactured	17	25	120	123	143	84	124
Ready made Garments & Hosiery	19	36	130	2025	2050	2180	1956
Drugs & Chemicals	12	11	146	128	157	100	97
Surgical Instruments	15	23	101	287	430	258	505
Carpets and Rugs	55	109	1171	1013	2323	1498	1555
Sports Goods	30	51	195	442	665	471	400
Other Exports	227	345	2401	8432	9338	6576	6878
Grand Total ...	1600	3371	12080	34442	37339	27410	27177
2. Quantity: (Qty. unit)							
Tobacco Raw & Manufactured	..	..	..	..	..	..	..
Ready made Garments & Hosiery	..	..	..	..	..	..	..
Drugs & Chemicals	..	..	..	..	..	..	..
Surgical Instruments	..	..	..	..	..	..	..
Carpets and Rugs (H. Sq. H.)	..	..	..	2.2	4.7	1.0	1.5
Sports Goods	..	..	..	..	..	..	..

.. Not available.

- Negligible.

SOURCE: Pakistan Economic Survey 1984-85.

TABLE 21 ECONOMIC CLASSIFICATION OF EXPORTS (Million Rupees)

Year	Primary Commodities		Semi-Manufactures		Manufactured Goods		Total Value
	Value	Percentage Share	Value	Percentage Share	Value	Percentage	
1969-70	532	33	375	23	702	44	1,009
1970-71	650	33	472	24	870	44	1,008
1971-72	1,510	45	014	27	947	28	3,371
1972-73	3,360	39	2,583	30	2,002	30	3,551
1973-74	4,007	39	2,294	23	3,800	38	10,101
1974-75	4,932	48	1,308	13	4,047	39	10,280
1975-76	4,902	44	2,068	18	4,283	38	11,253
1976-77	4,622	41	1,888	17	4,783	42	11,294
1977-78	4,634	36	1,912	15	6,435	50	12,980
1978-79	5,474	32	3,489	21	7,003	47	10,025
1979-80	9,838	42	3,510	15	10,053	43	23,410
1980-81	12,824	44	3,320	11	13,135	45	29,280
1981-82	9,112	35	3,507	13	13,051	52	20,270
1982-83	10,326	30	4,018	13	19,498	57	34,442
1983-84	10,789	29	5,172	14	21,378	57	37,339
(July-March)							
1983-84	8,408	31	3,794	14	15,214	55	27,416
1984-85	7,229	27	4,858	18	15,000	55	27,177

SOURCE: Ibid.

TABLE 22

Year	Capital Goods		Industrial raw materials				Consumer Goods		Total Value
	Value	Percentage Share	Capital Goods		Consumer Goods		Consumer Goods		
			Value	Percentage Share	Value	Percentage Share	Value	Percentage Share	
1969-70	1.655	50	344	11	957	20	320	10	3,285
1970-71	1.885	52	382	11	950	20	385	11	3,002
1971-72	1.482	42	367	11	851	24	705	23	3,405
1972-73	2.499	30	830	10	2,584	31	2,485	30	8,308
1973-74	3.975	30	904	7	5,380	40	3,214	24	13,479
1974-75	6.152	29	1,802	9	8,257	40	5,714	23	20,925
1975-76	7.158	35	1,201	6	7,700	38	4,337	21	20,405
1976-77	8.750	38	1,403	6	9,148	40	3,051	16	23,012
1977-78	9.310	34	1,021	7	11,023	40	5,555	20	27,815
1978-79	10.970	30	2,100	6	15,410	42	7,842	22	30,388
1979-80	16.679	36	2,916	6	19,834	42	7,500	18	40,929
1980-81	14.882	28	4,055	8	20,832	50	7,775	15	53,544
1981-82	17.504	30	4,801	8	28,710	48	8,407	14	59,481
1982-83	21.135	31	4,040	6	3,383	40	0,593	14	68,151
1983-84	24.419	32	4,525	6	37,017	48	10,740	14	76,707
(July-March)									
1983-84	16.933	31	3,317	6	27,071	40	8,012	14	55,333
1984-85	18,918	30	3,522	6	20,075	47	10,500	17	62,081

SOURCE: Ibid.

TABLE 23 PLANNED OUTLAYS BY SECTORS DURING THE FIFTH AND SIXTH PLANS

	Fifth Plan				Sixth Plan			
	Outlays (Billion Rs.)		Percentage Share		Allocation (Billion Rs.)		Percentage Share	
Agriculture and Water	36.1	(21.83)	15.00	(14.2)	80.02	(44.45)	17.8	(14.5)
Energy	38.8	(38.83)	17.20	(25.3)	110.50	(110.50)	23.1	(38.2)
Transport & Communications	44.4		19.00		83.52		18.5	
Industry	45.6		20.20		82.40		18.3	
Minerals	0.7		0.30		0.85		1.4	
Social Sectors*	17.1	(15.23)	7.00	(0.0)	48.01	(43.05)	9.5	(14.3)
Others	43.4		19.20		77.77		15.4	
Total(Gross)	226.0		100.00		505.00		100.0	
Plus: Special Development Programmes	0.6				15.00			
Less: Operational Shortfall	-				30.00			
Total(net)	226.0				400.00			

SOURCE: Government of Pakistan, THE SIXT FIVE YEAR PLAN 1983-88.

Figures in parenthesis relate to Public Sector outlays.

\*Social sectors outlays include expenditures on education, health, water supply and sanitation and population planning.

TABLE 24  
TOTAL PHASING OF PLAN OUTLAYS

						(Current Billion Rupees)			
	ADP	Public Corporatio	Special Developmen Programs	Total Public Sector	Total Private Sector	ADP	Percent of GDP		
							Total Public Sector	Total Private Sector	Total (Public & Private Sector)
<b>Fifth Plan</b>									
1978-79	20.5	4.5		25.0	0.7	0.5	11.0	4.5	10.1
1979-80	21.8	5.5		27.3	12.0	8.0	10.8	5.1	15.0
1980-81	25.8	5.8		31.6	14.8	8.7	10.7	5.0	15.7
1981-82	20.5	0.7		33.2	10.5	7.7	9.0	4.8	14.4
1982-83 (Estimated Actuals)	28.0	7.5	0.0	30.1	10.5	7.0	9.0	4.0	13.9
<b>Total Fifth Plan</b>	<b>122.6</b>	<b>30.0</b>	<b>0.6</b>	<b>153.2</b>	<b>73.4</b>	<b>8.1</b>	<b>10.1</b>	<b>4.0</b>	<b>15.0</b>
<b>Sixth Plan</b>									
1983-84	31.9	8.4	1.2	41.5	20.2	7.0	9.1	5.7	14.8
1984-85	30.4	10.9	1.8	40.1	30.2	7.1	9.0	5.0	15.5
1985-86	41.5	13.3	2.6	57.4	37.5	7.1	9.9	6.4	16.3
1986-87	40.0	15.2	3.8	65.0	40.3	7.1	10.0	7.1	17.1
1987-88	53.3	17.2	5.6	70.1	50.0	7.1	10.2	8.0	18.1
<b>Total Sixth Plan</b>	<b>210.0</b>	<b>65.0</b>	<b>15.0</b>	<b>200.0</b>	<b>200.0</b>	<b>7.1</b>	<b>9.8</b>	<b>6.8</b>	<b>16.6</b>

TABLE 25 SHIFTS IN PUBLIC AND PRIVATE SECTOR OUTLAYS

	(Billion rupees)		
	1977-78	1982-83	1987-88
Public Sector	21	30.1	70.1
Private Sector	8.7	19.5	59.0
Percentage of private sector in total outlays	29.3	39.1	45.9

SOURCE: Ibid.

TABLE 26  
PRIVATE INVESTMENT-SIZE AND GROWTH

(Billion rupee)

	1982-83	1800	Total	Sixth Plan	Annual Compound Growth
Agriculture	4.1	13.5	45.5	20.0	20.0
Transport and Communication	2.0	8.4	26.0	33.2	33.2
Industry	5.2	20.2	61.0	31.2	31.2
Large Scale	3.9	17.0	49.0	34.2	34.2
Small Scale	1.3	3.2	12.0	10.7	10.7
Minerals	0.1	0.4	1.1	31.0	31.0
Housing	5.4	11.3	43.0	15.0	15.0
Services/Others	2.7	5.8	21.0	10.5	10.5
	10.5	59.0	200.0	26.0	26.0
Investment in 1982-83 Prices	10.5	43.5	101.0	17.4	17.4

SOURCE: Ibid

TABLE 27  
PRIVATE INVESTMENT- SECTORIAL SHIFTS

(Percentages)

SECTOR	Fifth Plan	Sixth Plan
Agriculture	10.3	22.7
Transport and Communication	12.4	13.0
Industry	27.5	31.0
Large Scale	20.0	26.0
Small Scale	0.0	0.0
Minerals	0.4	0.0
Housing	25.0	21.8
Services/Others	14.5	10.0
Total	100.0	100.0

SOURCE: Ibid

## **Part V**

### **International Comparison**

- 1. Industrial Growth and GDP Growth**
- 2. Development of Manufacturing Production Level**
  - 2.1. Manufacturing production levels in Asian selected countries**
  - 2.2. Production growth of manufacturing industries in Asian selected countries**
  - 2.3. Manufacturing industry and GDP structural changes in selected countries of Asia**
  - 2.4. Industrial Development in Korea**
- 3. Industrial Development and International Trade**

**Annex 1. Regions Covered and Sector Classification for Revealed Comparative Advantage**



## 1. Industrial Growth and GDP Growth

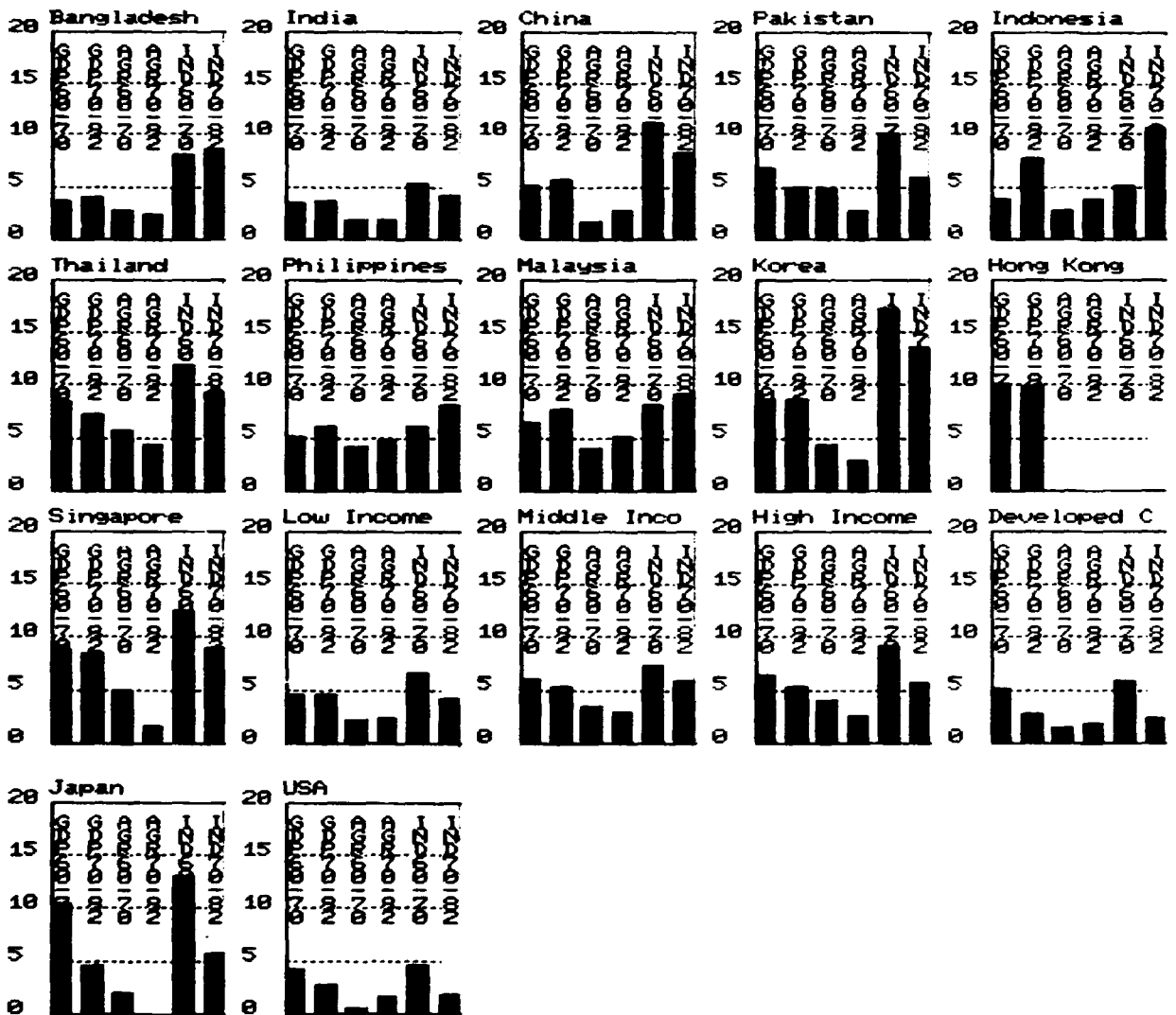
Fig. 1-1-1 shows GDP growth rates and industrial growth rates in selected countries of Asia, low income developing countries, middle income developing countries, high income developing countries, Japan, and USA. During the period from 1960 to 1970, GDP growth is about 5% in developed countries and in low income developing countries, about 6% in high income developing countries and in middle income countries. Among them, Asian countries are divided into two groups; (1) high growth countries and (2) low growth countries. Bangladesh, India and Indonesia is grouped into former one. Pakistan, Thailand, Malaysia, Korea, Hong Kong and Singapore is grouped into later one. Especially, GDP growth in Thailand, Korea, Singapore and Hong Kong is extremely high due to their high industrial growth. In low growth countries, industrial growth is relatively lower than those countries. Industrial growth was 5.4% in India, 5.2% in Indonesia. These are lower than the average of low income countries.

In 1970's, GDP growth was low in developed countries at 2.3%, while that of developing countries were not much differed from the level in 1960's. In regard with, Asian countries, while GDP growth in Bangladesh and India was lower than the average of developing countries, newly industrializing countries (NICs) such as Korea,

Singapore and Hong Kong, and ASEAN countries maintained the higher growth rates than the other regions. Especially, Indonesia's growth rate of GDP was high at 7.7% and the industrial growth was also high at 10.7% This rapid growth followed that of Korea (13.6%).

As is mentioned above, GDP growth and industrial growth in Asian countries were higher than the other regions since 1960's. Such a high growth is sustained by the high industrial growth.

Fig. 1.1.1: Growth Rates of GDP in Selected Asian Countries (%)



(Source) IDRB, World Development Report, 1983

Tab. 1.1.1: Growth Rate of Selected Asian Countries

	GDP60-70	GDP70-82	AGR60-70	AGR70-82	IND60-70	IND70-82
Bangladesh	3.7	4.1	2.7	2.3	8.0	8.7
India	3.4	3.6	1.9	1.8	5.4	4.3
China	5.2	5.6	1.6	2.8	11.2	8.3
Pakistan	6.7	5.0	4.9	2.7	10.0	5.9
Indonesia	3.9	7.7	2.7	3.8	5.2	10.7
Thailand	8.4	7.1	5.6	4.4	11.9	9.3
Philippine	5.1	6.0	4.3	4.8	6.0	8.0
Malaysia	6.5	7.7	4.1	5.1	8.0	9.2
Korea	8.6	8.6	4.4	2.9	17.2	13.6
Hong Kong	18.0	9.9	0.0	0.0	0.0	0.0
Singapore	8.8	8.5	5.0	1.6	12.5	8.9
Low Income	4.5	4.5	2.2	2.3	6.6	4.2
Middle Inc	6.0	5.4	3.5	3.0	7.4	5.8
High Incom	6.4	5.4	4.0	2.6	9.1	5.7
Developed	5.1	2.8	1.4	1.8	5.9	2.3
Japan	10.4	4.6	2.1	-0.2	13.0	5.6
USA	4.3	2.7	0.5	1.7	4.6	1.9

## **2. Development of Manufacturing Production Level**

### **2.1. Manufacturing Production Levels of Asian Selected Countries**

Production levels of manufacturing sectors in Asian countries are shown in Table 2.1.1. In general, Asian manufacturing value added levels are increased from 1973 to 1981. Orders of Asian countries are improved as to the per capita manufacturing value added (V/C). For example, Indonesia realized a rise in position from the 16th in 1973 to the 36th in 1983 in ascending order of the per capita manufacturing value added. Similarly, Thailand, Malaysia, Korea, Hongkong and Singapore, which is located in East and Southeast Asia, also realized a remarkable rise in ranking from 43rd to 54th, 68th to 73rd, 69th to 80th, 95th to 101st, and 99th to 107th, respectively. In contrast, Latin American countries were not much changed or some of them declined. The situation of African countries are quite different from the other regions. Some of African countries were developed rapidly, but the others were stagnated or declined extremely.

In this way, the industrial development in Asian countries were successfully achieved in 1970's. Fig. 2.1.1. and Fig. 2.1.2. shows positions of Asian selected countries in the world in 1973 and 1981. In 1973, Asian countries, except Korea, Singapore and Hongkong, took their positions in middle level of the low and middle income developing countries, while , in 1981, they were belonging to the

higher level. Especially, Indonesia moved from the average level in term of manufacturing value added growth rate to the high level.

Next, let us see Fig. 2.1.3 and Fig. 2.1.4, Those tables show the positions of countries, which are at the middle and high manufacturing value added level in 1973 and 1981. Among them, it should be noted that Singapore and Hong Kong has reached the level of developed industrialized countries in 1981 and those levels exceed that of UK. In case of Korea, the level came near to that of Hong Kong in 1981. In addition, it seems that The Philippines and Malaysia is pursuing the passage of Korea.

Tab. 2.1.1: Growth of Manufacturing Value Added, Selected Periods and Year  
(at Constant 1975 Prices)

Countries	Rank in MVA/C		MVA per Capita				Countries	Rank in MVA/C		MVA per Capita			
	73	81	Growth		(\$)			73	81	Growth		(\$)	
			Rate (%)		73	81				Rate (%)		73	81
Rwanda	1	27	12.4	12.7	4	20	Guyana	51	52	1.5	2.7	74	98
Bangladesh	2	5	-2.5	5.0	5	9	Algeria	52	51	9.7	3.5	75	94
Lesotho	3	6	31.4	1.4	8	9	El Salvador	53	40	2.7	-2.8	78	57
Lao	4	3	-0.4	-4.3	8	7	Libyan Arab	54	68	9.1	11.7	78	155
Mali	5	7	2.2	1.1	9	9	Morocco	55	57	2.2	4.6	82	108
Burma	6	16	1.0	3.0	10	13	Zambia	56	42	9.5	-3.8	86	67
Guinea	7	10	1.1	0.1	11	10	Philippines	57	58	3.6	3.8	89	115
Ethiopia	8	14	5.6	1.6	11	12	Paraguay	58	63	3.6	5.9	89	135
Brundi	9	20	11.9	2.8	12	15	Swaziland	59	75	15.6	8.5	91	213
Mauritania	10	23	2.4	3.9	14	18	Mauritius	60	72	0.9	7.8	92	179
Benin	11	9	3.2	-7.0	14	10	Nambia	61	56	6.8	1.8	93	107
Zaire	12	4	10.1	-9.7	15	7	Suriname	62	55	0.0	7.7	95	104
Malawi	13	24	11.7	3.1	15	18	Iran	63	48	8.8	-2.1	97	83
Somalia	14	11	19.0	-3.7	15	11	Reunion	64	59	-4.2	3.7	98	116
Niger	15	17	5.0	0.2	16	14	Guatemala	65	60	4.7	2.7	101	117
Indonesia	16	36	5.6	12.6	16	41	Ecuador	66	64	4.9	5.2	105	141
Sierra Leone	17	18	2.1	-2.3	16	14	Colombia	67	65	4.0	2.5	121	143
Afganistan	18	22	2.8	0.5	16	16	Malaysia	68	73	6.2	6.5	123	189
Upper Volta	19	25	15.7	1.5	17	18	Korea	69	80	17.8	11.4	123	276
Cameroon	20	12	4.4	-8.0	17	11	Dominica	70	70	5.6	2.0	137	159
Haiti	21	30	-0.6	5.3	18	24	Nicaragua	71	61	4.5	-3.1	137	120
Tanzania	22	8	7.1	-5.7	18	9	Zimbabwe	72	66	7.0	-0.6	138	145
Liberia	23	26	9.1	-0.9	20	19	Fiji	73	74	1.3	5.2	139	198
E Guinea	24	1	3.1	-18.0	20	5	Barbados	74	76	6.6	7.0	142	220
Gambia	25	2	0.3	-14.5	20	6	Panama	75	67	5.1	0.2	151	147

Countries	Rank in MVA/C		MVA per Capita				Countries	Rank in MVA/C		MVA per Capita			
	73	81	Growth		(\$)			73	81	Growth		(\$)	
			Rate (%)		73	81				Rate (%)		73	81
Uganda	26	13	1.8	-8.6	21	11	Turkey	76	71	7.2	0.9	162	177
India	27	32	1.4	2.9	22	27	Gabon	77	91	10.2	13.1	172	436
Kampuchea	28	15	-7.2	-7.5	22	12	Albania	78	85	9.7	10.4	179	392
Togo	29	21	10.6	-6.5	24	16	Costa Rica	79	78	6.6	3.1	181	221
Botswana	30	50	3.9	14.0	24	88	Cyprus	80	81	9.9	6.5	229	324
Nigeria	31	38	4.4	8.4	28	48	Peru	81	79	2.8	-0.9	231	234
Kenya	32	33	4.9	2.7	29	34	Chili	82	77	2.2	0.0	240	220
Madagascar	33	28	6.5	-2.5	29	21	Jamaica	83	69	4.2	-6.1	244	155
Pakistan	34	35	3.9	3.6	30	40	Malta	84	94	12.0	14.2	260	711
Jordan	35	46	-2.1	9.1	40	74	Uruguay	85	84	0.6	4.6	267	362
Congo	36	34	-2.0	-0.9	45	38	Saudi Arabia	86	83	5.8	1.8	318	344
Sudan	37	31	3.1	-4.8	47	27	Mexico	87	90	5.4	3.8	321	430
Mozambique	38	29	11.1	-9.0	48	23	Brazil	88	89	6.7	3.6	324	403
Senegal	39	37	0.8	-1.8	49	42	S Africa	89	88	3.9	2.3	328	402
Syria	40	44	-0.7	2.0	50	69	Venezuela	90	82	1.6	-0.6	369	338
Angola	41	19	8.3	-12.2	51	15	Greece	91	92	11.6	3.7	460	556
Egypt	42	49	1.9	5.5	57	87	Argentina	92	86	5.0	-2.1	498	394
Thailand	43	54	8.4	8.3	57	102	Tinidad	93	87	3.9	-1.6	532	398
Sri Lanka	44	41	2.7	1.8	58	64	Kuwait	94	99	-0.6	5.4	532	850
Bolivia	45	43	3.7	2.0	59	68	Hong Kong	95	101	10.3	9.2	541	966
Honduras	46	47	4.5	4.6	60	78	Bulgaria	96	103	13.1	7.5	571	1009
Ghana	47	39	4.4	-3.6	67	50	Portugal	97	93	9.9	2.8	586	690
Tunisia	48	62	7.9	8.3	68	126	Romania	98	108	13.5	8.7	616	1209
Ivory Coast	49	53	5.5	4.9	70	100	Singapore	99	107	15.7	8.6	620	1144
Iraq	50	45	5.8	7.3	71	74	Ireland	100	98	4.8	7.2	642	844

(Source) UNIDO, Handbook of Industrial Statistics, 1984

Tab. 2.1.1: Growth of Manufacturing Value Added, Selected Periods and Year  
(at Constant 1975 Prices)

(Continued)

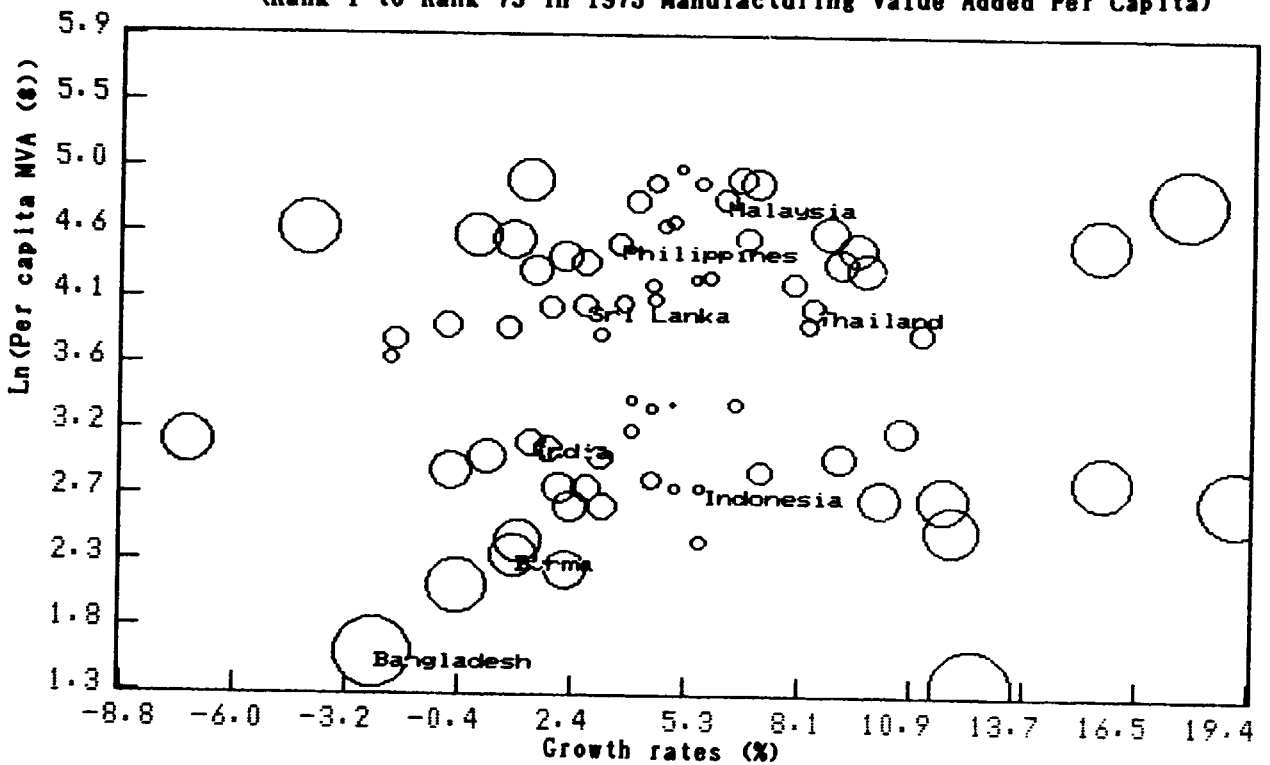
Countries	Rank in MVA/C		MVA per Capita			
			Growth Rate (%)		(\$)	
	73	81	73	81	73	81
Israel	101	95	6.4	0.4	704	740
Hungary	102	105	7.2	4.7	706	1323
Spain	103	97	8.7	0.3	760	783
Iceland	104	96	0.2	0.2	789	768
USSR	105	110	9.2	5.1	865	1303
Puerto Rico	106	102	7.2	2.3	884	977
Poland	107	106	8.6	2.6	899	1043
New Zealand	108	104	2.5	0.3	908	1015
Italy	109	109	5.7	2.3	1153	1265
UK	110	100	3.0	-3.4	1255	891
Czecho	111	114	5.6	3.8	1308	1766
Japan	112	117	10.2	4.3	1456	1876
Austria	113	115	5.8	2.9	1480	1795
Denmark	114	116	3.7	2.1	1585	1800
Finland	115	120	7.1	2.8	1602	2032
Norway	116	111	4.2	-0.8	1626	1553
Canada	117	112	4.2	0.4	1646	1663
E. German	118	125	6.3	5.7	1728	2720
Australia	119	113	3.4	-0.8	1825	1677
Belgium	120	121	6.3	1.4	1868	2033
Netherland	121	119	5.9	0.6	1901	1965
France	122	123	5.9	1.3	1947	2101
US	123	122	2.5	1.4	1956	2039
Luxemburg	124	118	2.2	-1.4	2267	1953
Sweden	125	124	4.0	-0.8	2439	2328

Countries	Rank in MVA/C		MVA per Capita			
			Growth Rate (%)		(\$)	
	73	81	73	81	73	81
W. Germany	126	126	4.9	2.0	2713	2978
Switzerland	127	127	3.6	0.2	3456	3443

(Source) UNIDO, Handbook of Industrial Statistics, 1984

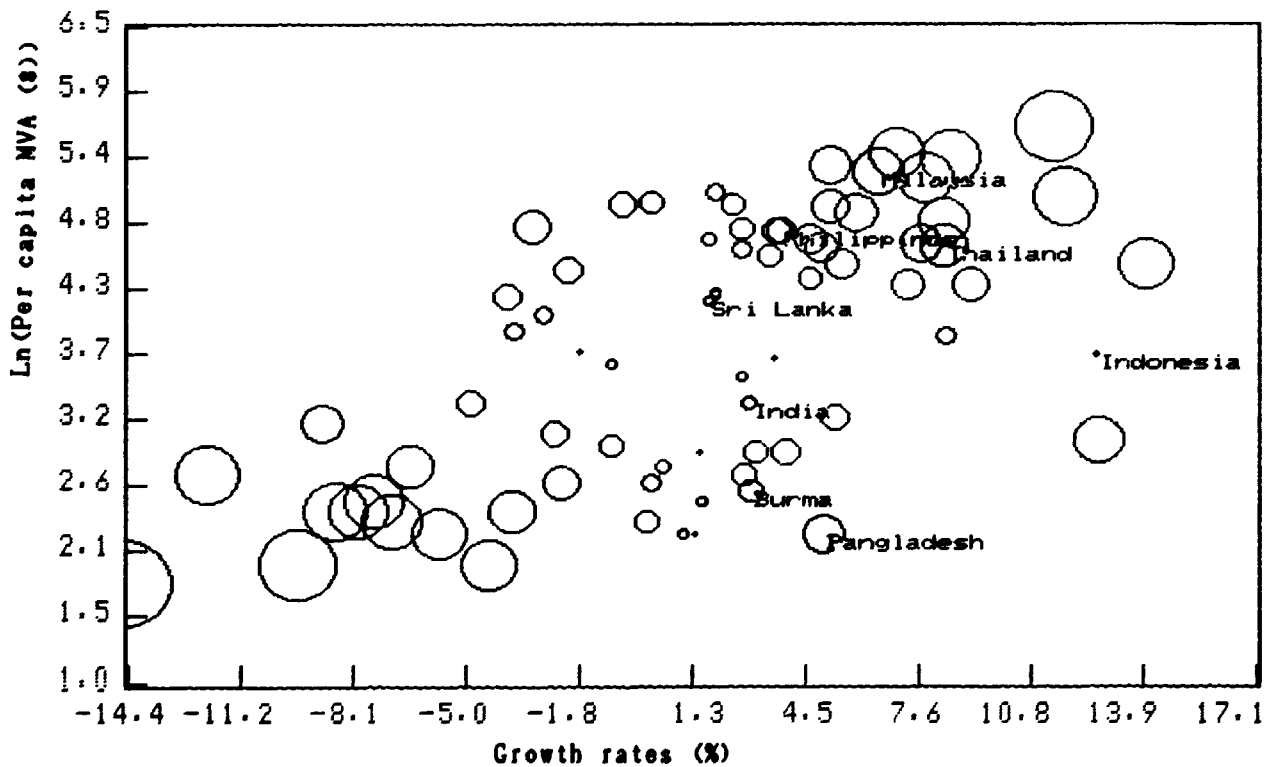


**Fig. 2.1.1: Growth Rates of Manufacturing Value Added Per Capita (1963-73) and Manufacturing Value Added Per Capita in 1973 (Rank 1 to Rank 75 in 1973 Manufacturing Value Added Per Capita)**



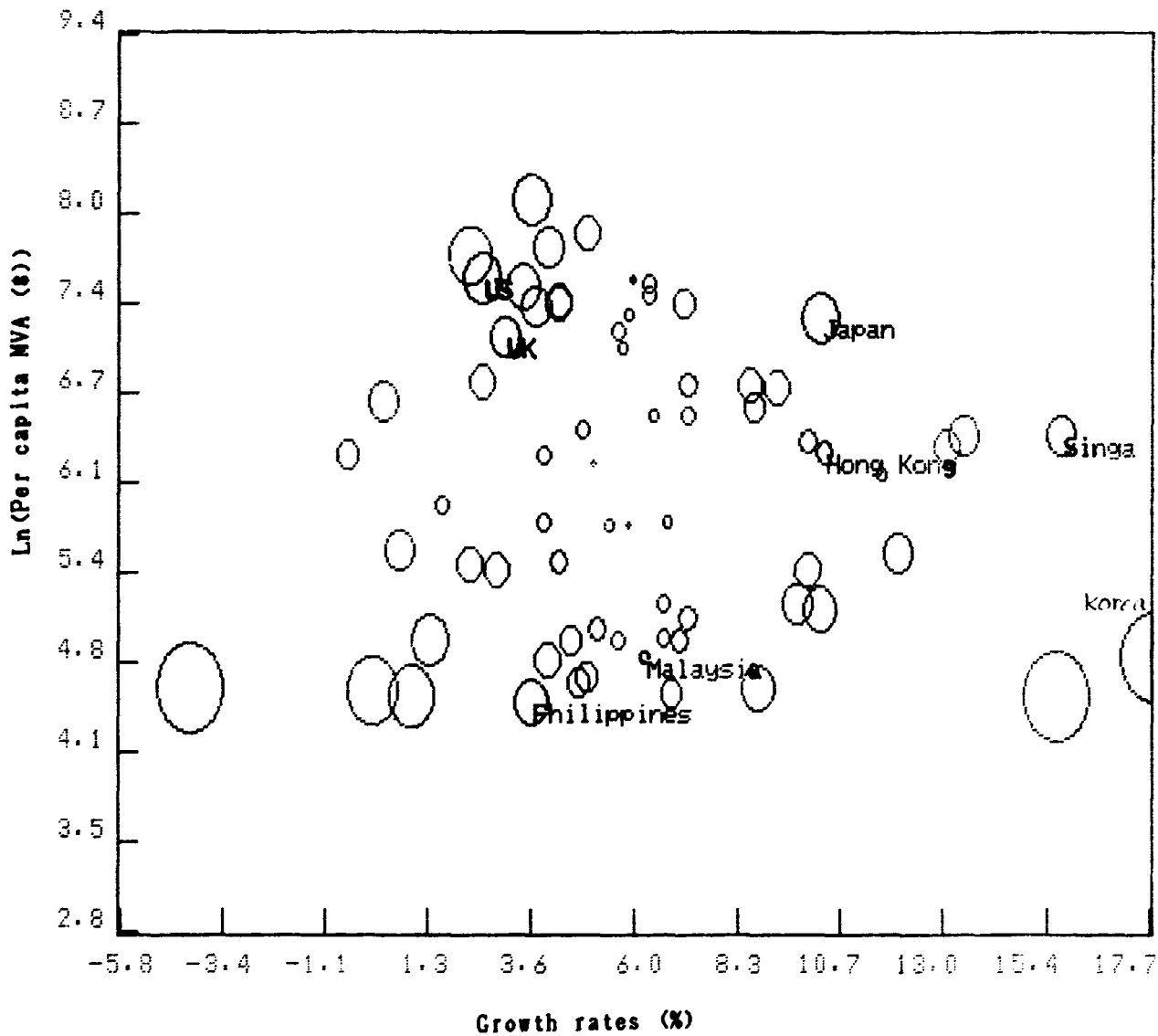
(Source) UNIDO, Handbook of Industrial Statistics, 1984

**Fig. 2.1.2: Growth Rates of Manufacturing Value Added Per Capita (1973-81) and Manufacturing Value Added Per Capita in 1981 (Rank 1 to Rank 75 in 1973 Manufacturing Value Added Per Capita)**



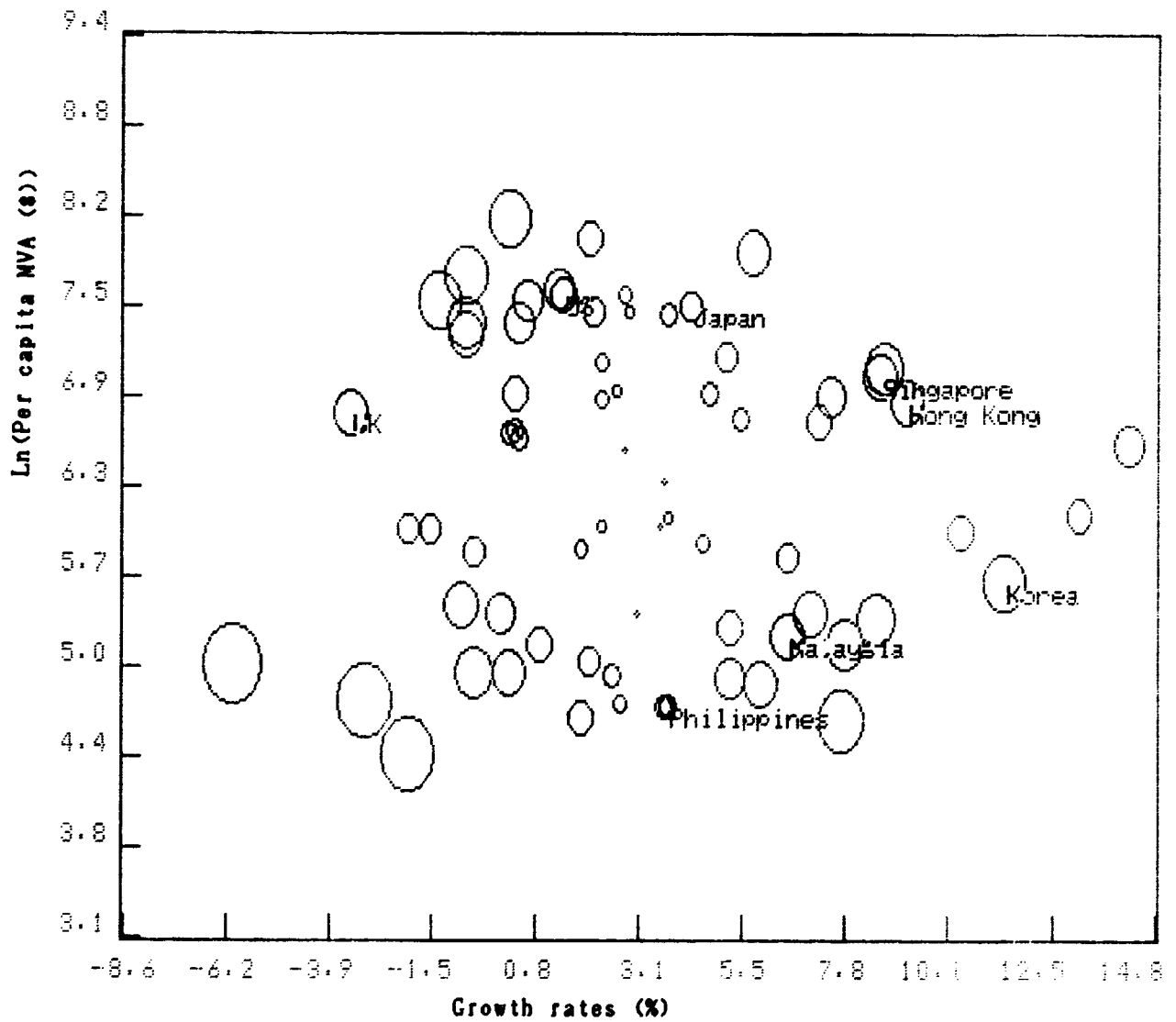
(Source) UNIDO, Handbook of Industrial Statistics, 1984

**Fig. 2.1.3: Growth Rates of Manufacturing Value Added Per Capita (1963-73) and Manufacturing Value Added Per Capita in 1973 (Rank 57 to Rank 127 in 1973 Manufacturing Value Added Per Capita)**



(Source) UNIDO, Handbook of Industrial Statistics, 1984

**Fig. 2.1.4: Growth Rates of Manufacturing Value Added Per Capita (1976-83) and Manufacturing Value Added Per Capita in 1983  
(Rank 57 to Rank 127 in 1973 Manufacturing Value Added Per Capita)**

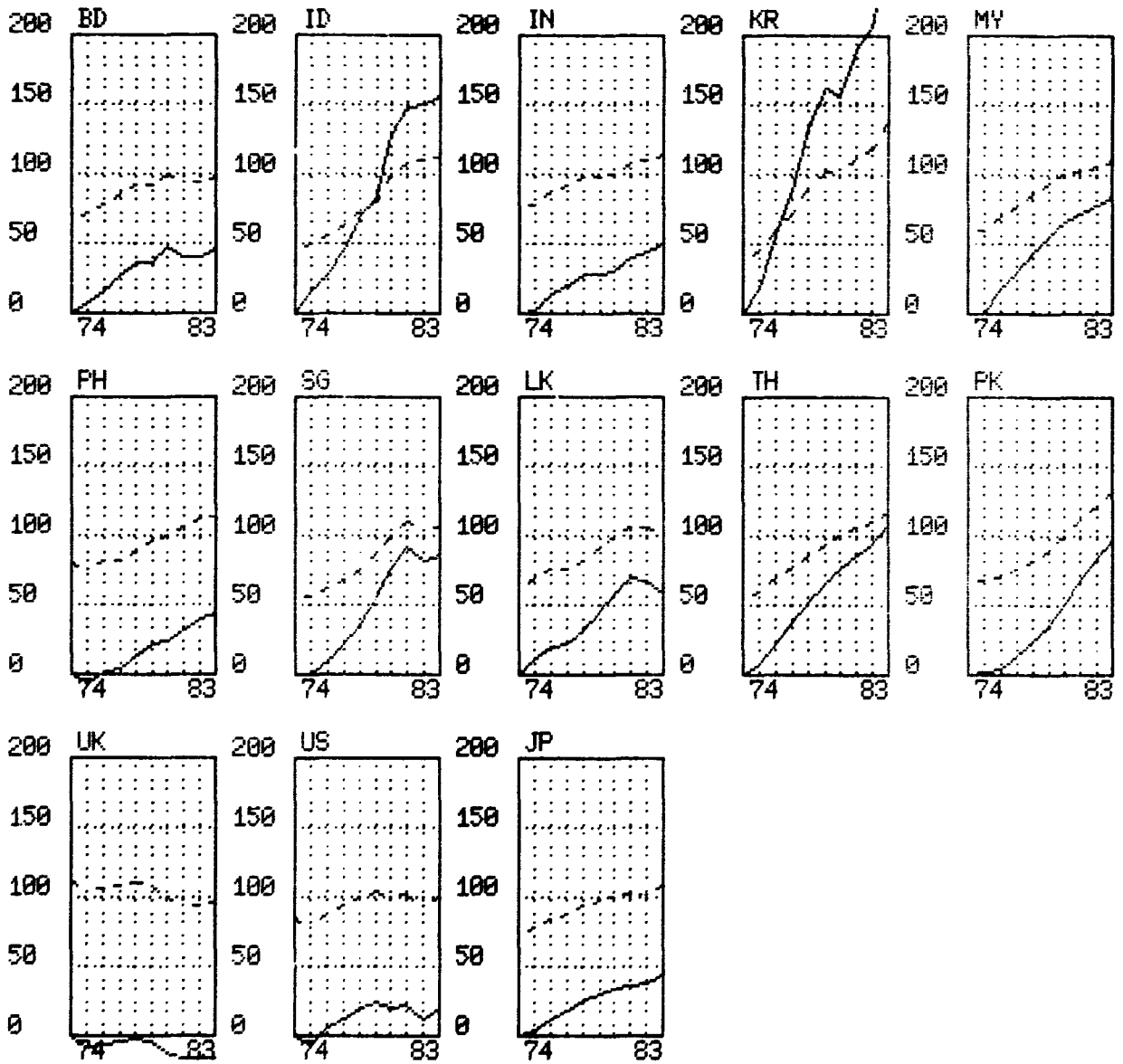


(Source) UNIDO, Handbook of Industrial Statistics, 1984

## 2.2 Production Growth of Manufacturing Industry in Selected Asian Countries

Fig. 2.2.1 shows a production index of Asian selected countries from 1974 to 1983. A broken line and solid line show a production index (1980=100) and a calculated index (1974=100), respectively. The calculated index is convenient to investigate the situation of development of manufacturing industry since 1974. Among Asian countries, Korean development is quite rapid compared with that of the other Asian countries and developed countries. Following Korea, Indonesian production index also shows its rapid upward tendency, especially after 1979. Thailand and Malaysia follow Indonesia but their development is rather moderate. Singaporean and Sri Lanka's index dropped from 1981 to 82. Bangladesh's one also dropped from 1980 to 81. This means that the world-wide economic recession affected the Asian industrial development. It will be distinct in seeing the fact that UK and US production index declined from 1979. In this manner, East and Southeast Asian countries, especially NICs, realized a high growth of manufacturing production, while South Asia and Developed countries were suffered in industrial development.

Fig. 2.2.1 Production index of Asian selected countries (1974 to 1983)



Tab. 2.2.1: Production Index for Selected Countries of Asia (1974 to 1983)

Sample	74	75	76	77	78	79	80	81	
1 BD		68.0	73.0	79.0	87.0	92.0	93.0	100.0	95.0
2 ID		44.0	51.0	56.0	64.0	75.0	81.0	100.0	109.0
3 IN		77.0	79.0	88.0	92.0	99.0	99.0	100.0	108.0
4 KR		39.0	46.0	61.0	73.0	91.0	102.0	100.0	113.0
5 MY		60.0	60.0	71.0	78.0	86.0	94.0	100.0	103.0
6 PH		80.0	76.0	82.0	83.0	91.0	97.0	100.0	106.0
7 SG		57.0	57.0	63.0	69.0	77.0	89.0	100.0	110.0
8 LK		63.0	71.0	76.0	77.0	83.0	92.0	100.0	107.0
9 TH		57.0	61.0	70.0	79.0	87.0	95.0	100.0	106.0
10 PK		67.0	68.0	70.0	77.0	83.0	91.0	100.0	113.0
11 UK		113.0	105.0	107.0	109.0	110.0	109.0	100.0	94.0
12 US		84.0	79.0	89.0	94.0	100.0	105.0	100.0	102.0
13 JP		75.0	78.0	84.0	88.0	94.0	98.0	100.0	102.0

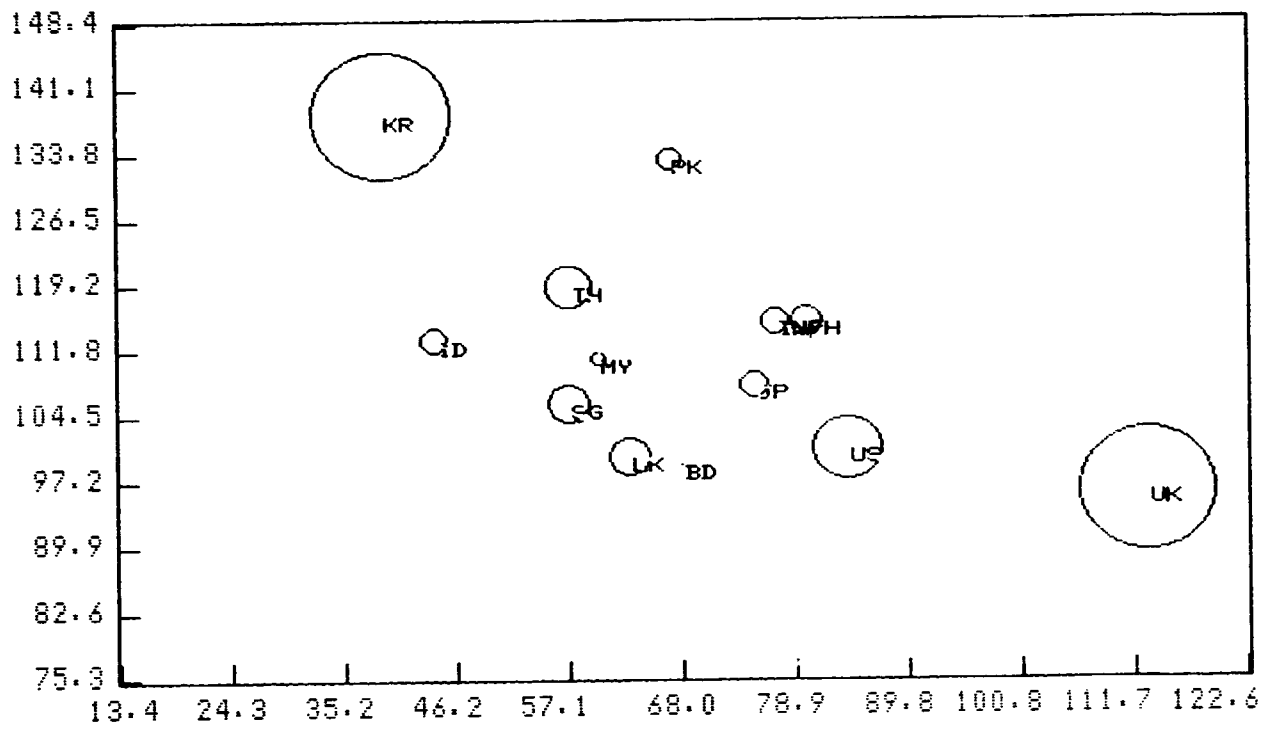
Sample	82	83
1 BD	95.0	99.0
2 ID	110.0	113.0
3 IN	111.0	115.0
4 KR	119.0	138.0
5 MY	107.0	111.0
6 PH	112.0	115.0
7 SG	104.0	106.0
8 LK	106.0	100.0
9 TH	111.0	119.0
10 PK	123.0	133.0
11 UK	94.0	96.0
12 US	94.0	101.0
13 JP	103.0	108.0

(Source) UN, Industrial Statistics Yearbook, 1983 (Vol. I)

UN, National Accounts Statistics: Main Aggregates and Detailed Tables, 1983

- (Notes)
1. In case that the index for a certain year is not available, the index is calculated from value added index obtained from the National Accounts Statistics.
  2. Index for Pakistan is obtained from the value added index at 1959 constant price.  
(Million Korean Won)

Fig. 2.2.2: Production Index for Selected Countries of Asia (1974 and 1983)



(Source) UN, Industrial Statistics Yearbook, 1983 (Vol. I)

## 2.3 Manufacturing Industry and GDP Structural Changes in Selected Countries of Asia

Tab. 2.3.1 shows GDP structures of Asian selected countries from 1974 to 1983. The figure in the table is calculated based upon the GDP (1974 to 1983) at constant prices in each country, the 1980 GDP at current price, and the 1980 exchange rate of local currencies to US dollar. In this table, it is possible to compare the GDP level by kind of activity of Asian selected countries. In 1974, the largest country in term of size of manufacturing value added was India (US\$ 18,626 million) and the smallest was Sri Lanka (US\$ 609 million).

In 1983, this is not changed but the differences between the largest country and the other countries. For example, Korean manufacturing value added was about 41% of India's in 1974, but 75% in 1983. That of Indonesia became about 20% in 1974 to 36% in 1983. 20% in 1974 to 36% in 1983.

Fig. 2.3.1 shows such a situation adequately. From this figure, several things can be pointed out as follows;

- (1) manufacturing growth in Korea was brilliant during a period from 1974 to 1979.
- (2) Indonesian growth was also high from 1974 to 1981. As a result, this country exceeded the Philippines.



(3) Malaysia and Philippine could not retain the growth of manufacturing sector since 1980.

Next, it will be discussed how big the value added of manufacturing sector is in GDP of each country. Several characteristics of the countries are observed from Fig. 2.3.2. Firstly, Bangladesh is not blessed with natural resources and the output of mining is negligible. This is a different point from the other countries. Secondly, Bangladesh, Indonesia, India, Sri Lanka, Pakistan and Thailand shares agricultural value added more than manufacturing. In contrast, Korea, the Philippines and Malaysia produces more manufacturing value added than agricultural sector.

From Fig. 2.3.3, more typical characteristics of the countries are investigated. This figure shows a sectoral specialization of each country. GDP share by sector in each country is normalized by the average of nine countries. Bangladesh is classified into the country which is highly dependent on the agricultural sector. The shape is quite similar with that of India except the level of utility sector such as electricity, gas and water supply. Sri Lanka is also similar except construction sector. The countries, which are dependent on manufacturing sector, are Korea, Malaysia, Philippine, Pakistan and Thailand. Among these countries, Korea is highly dependent on the manufacturing sector, Malaysia is specialized into mining sector, Thailand is average in most of the sectors except mining. Pakistan is similar to Thailand except utility sector.

Indonesia is completely different from the pattern of the other countries as value added share of mining sector is quite high.

Among the several types of country, what structural changes were made for a period from 1974 to 1983 is shown in Fig. 2.3.4. In this diagram, an equilateral hexagon is the level of 1974 GDP share in each country and a solid line shows that of 1983. Concerning the manufacturing sector, Korea and Indonesia changed quite largely, Korea expanded the manufacturing share at 35% and Indonesia increased at 51%. In parallel with this, the share of utility sector and construction sector is also expanded in both countries. Those shapes shifted to the upper left. The Pattern of Malaysia, Pakistan and Thailand is similar to that of the countries mentioned above, but the change is not furious. As to the other countries, Bangladesh expanded the utility share extremely, and Philippines expanded the utility and construction share without expansion of the other sectors. It cannot be said that this pattern of change is ordinary one compared with the others.



Fig. 2.3.2: GDP by Sector for Selected Countries of Asia

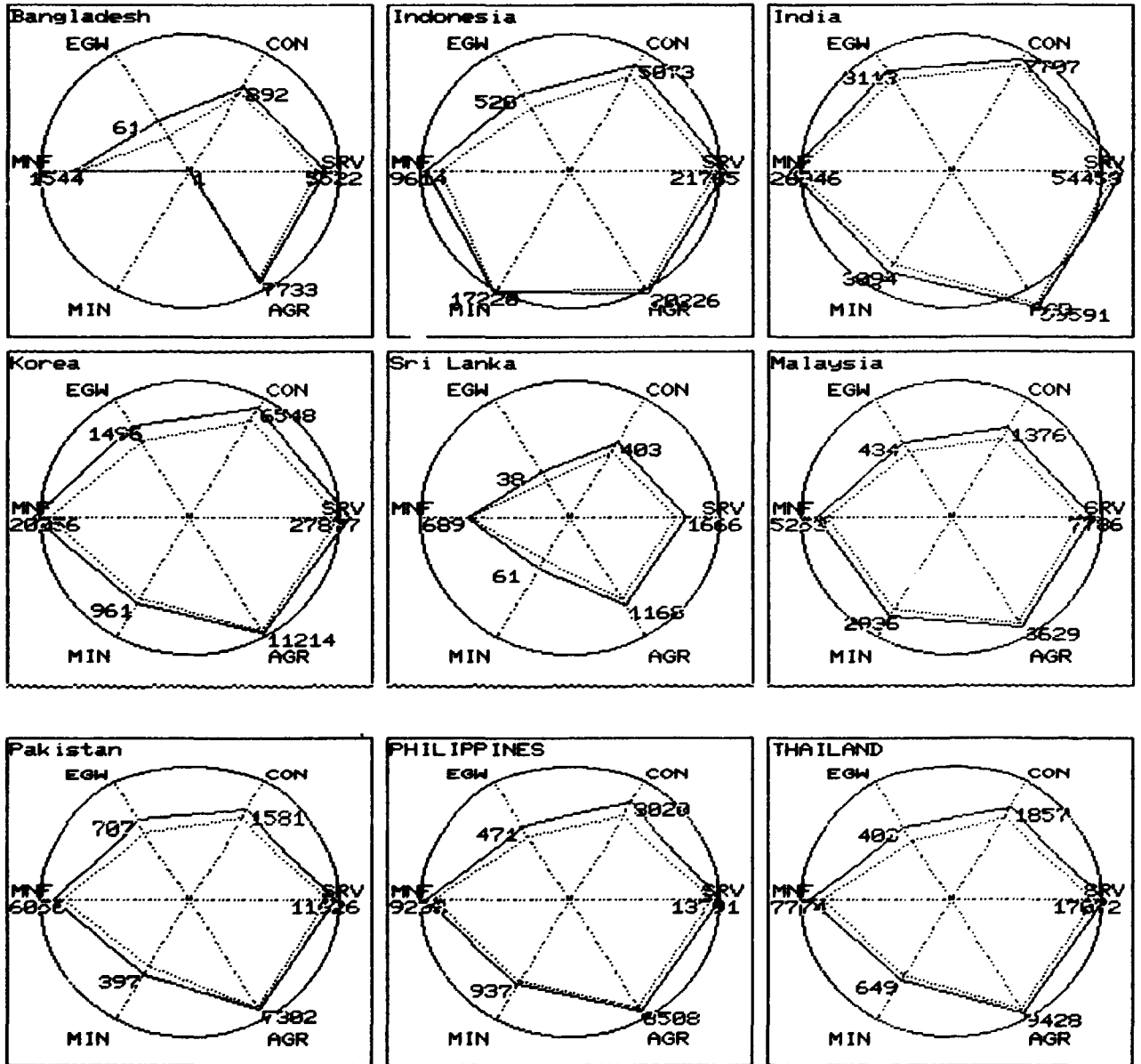


Fig. 2.3.3: Pptern of GDP Share for Selected Countries of Asia

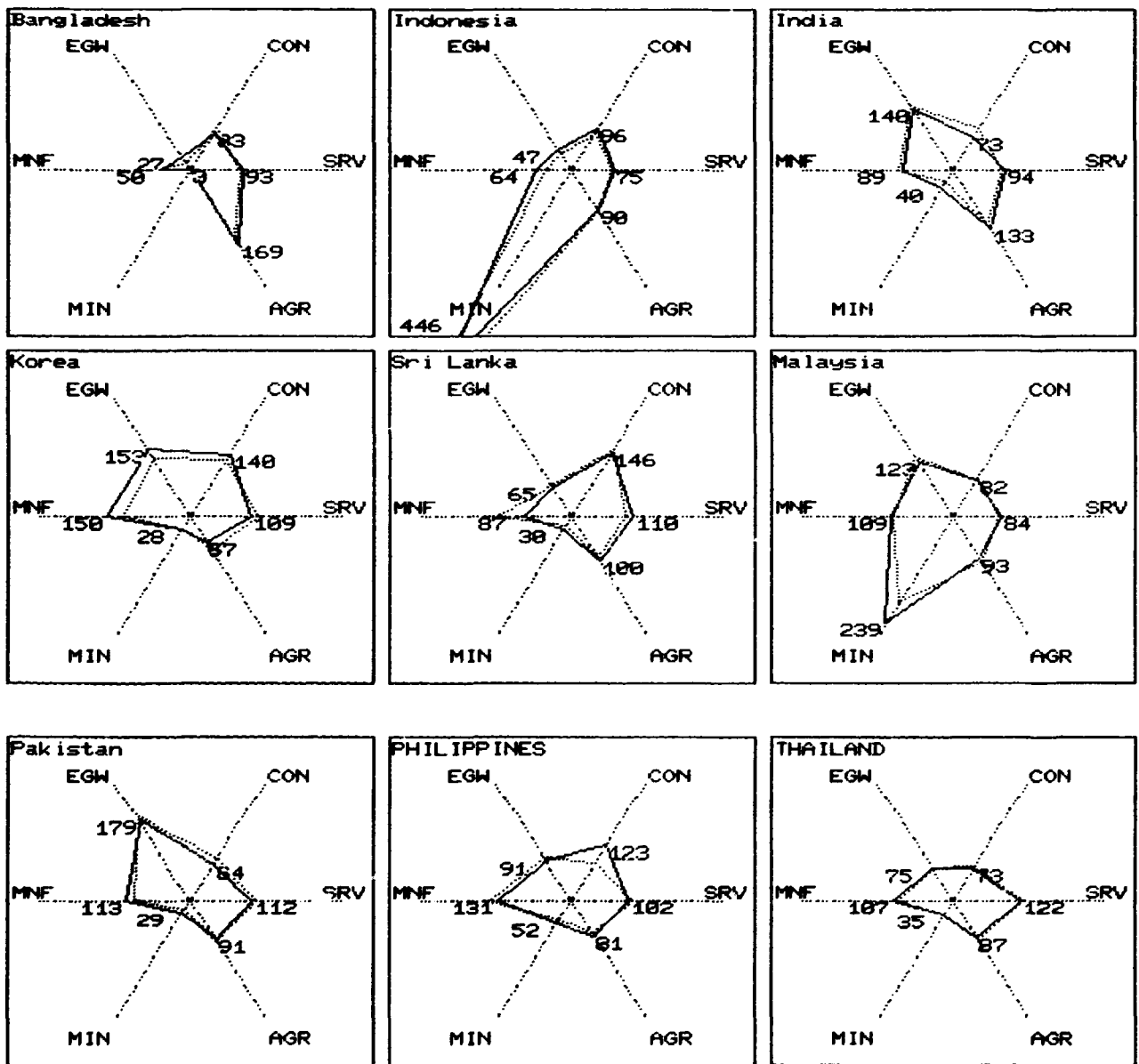
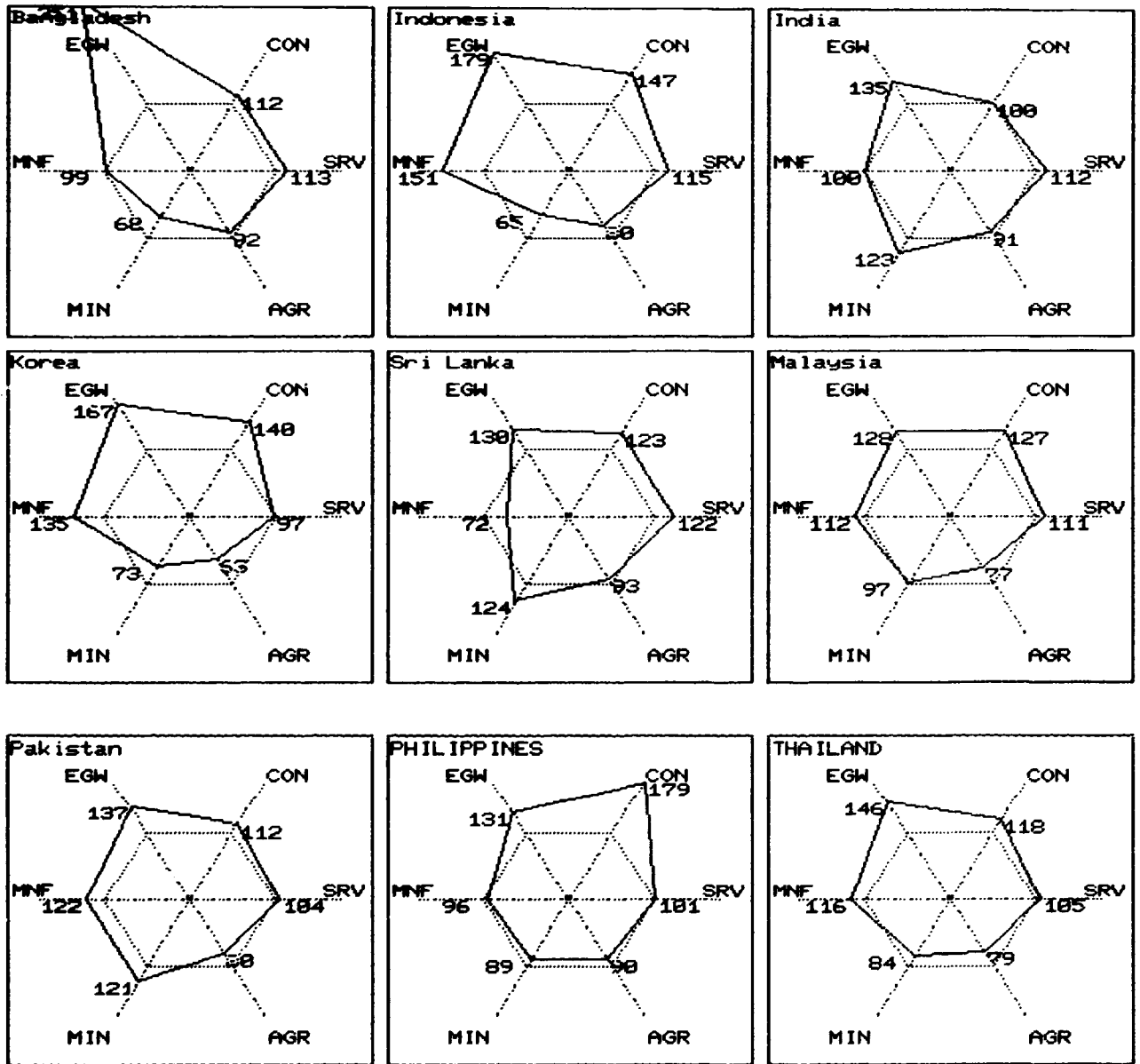


Fig. 2.3.4: Changes in GDP Share for Selected Countries of Asia



**Tab. 2.3.1 GDP Structures of Asian Selected Countries  
(1980 Constant Price; Million US\$)**

**GDP Structures of Bangladesh**

	74	75	76	77	78	79	80	81	82	83
AGR	5,763	6,436	6,241	6,780	6,681	6,692	7,050	7,114	7,444	7,733
MIN	0	0	0	1	1	1	0	0	0	0
MNF	1,067	1,144	1,190	1,208	1,375	1,403	1,479	1,503	1,479	1,544
EGW	17	26	31	37	37	43	48	57	58	61
CON	546	519	612	625	949	747	847	894	879	892
SRV	3,333	3,910	4,113	4,348	4,689	4,955	5,143	5,090	5,294	5,522
ALL	10,790	12,121	12,236	13,060	13,694	13,855	14,567	14,652	15,158	15,762

**GDP Structures of Indonesia**

	74	75	76	77	78	79	80	81	82	83
AGR	14,783	14,783	15,483	15,677	16,487	17,123	18,012	18,901	19,301	20,226
MIN	15,456	14,899	17,130	19,253	18,875	18,839	18,623	19,235	16,914	17,220
MNF	3,736	4,196	4,602	5,235	6,205	6,903	8,437	9,293	9,406	9,614
EGW	170	189	212	226	276	318	359	414	488	520
CON	2,017	2,300	4,317	2,924	3,334	3,548	4,027	4,537	4,777	5,073
SRV	11,117	12,367	10,899	13,977	15,076	16,479	18,034	19,731	37,178	21,765
ALL	45,175	47,431	50,039	54,215	58,232	61,945	67,490	72,659	74,194	77,206

**GDP Structures of India**

	74	75	76	77	78	79	80	81	82	83
AGR	45,576	51,628	48,257	53,937	55,530	48,443	54,388	56,167	54,680	59,591
MIN	1,750	1,954	2,035	2,076	2,117	2,157	2,320	2,483	2,809	3,094
MNF	18,626	19,030	20,706	22,041	24,462	24,028	24,338	25,238	25,673	26,946
EGW	1,604	1,824	2,013	2,075	2,327	2,358	2,484	2,704	2,893	3,113
CON	5,333	6,095	6,652	7,355	7,179	6,798	7,150	7,209	7,590	7,707
SRV	33,875	36,540	38,378	40,675	43,799	44,136	46,280	49,128	51,395	54,458
ALL	107,244	117,855	118,261	128,669	135,714	127,567	136,961	142,817	144,528	154,501

**GDP Structures of Korea**

	74	75	76	77	78	79	80	81	82	83
AGR	9,112	9,559	10,456	10,724	9,742	10,399	8,142	10,135	10,552	11,214
MIN	673	780	786	880	926	861	788	915	880	961
MNF	7,625	8,530	10,568	12,259	14,973	16,406	16,224	17,395	18,083	20,056
EGW	461	549	638	752	882	1,033	1,112	1,220	1,321	1,496
CON	2,397	2,729	3,013	3,810	4,690	4,830	4,761	4,505	5,404	6,548
SRV	14,731	15,619	17,327	19,179	21,488	23,037	22,567	24,552	25,807	27,877
ALL	34,999	37,766	42,788	47,604	52,602	56,565	53,593	58,723	62,047	68,151

**GDP Structures of Sri Lanka**

	74	75	76	77	78	79	80	81	82	83
AGR	796	806	838	876	937	979	994	1,069	1,102	1,168
MIN	31	34	46	40	46	44	51	53	51	61
MNF	609	649	644	660	670	687	690	715	711	689
EGW	18	20	20	21	22	28	30	34	37	38
CON	207	234	250	252	279	306	361	410	400	403
SRV	862	871	911	969	1,034	1,170	1,303	1,380	1,541	1,666
ALL	2,549	2,611	2,723	2,837	3,002	3,226	3,428	3,645	3,842	4,032

**GDP Structures of Malaysia**

	74	75	76	77	78	79	80	81	82	83
AGR	4,745	4,601	5,164	5,286	5,373	5,812	5,991	6,241	6,699	6,629
MIN	1,672	1,663	2,005	2,031	2,213	2,514	2,459	2,411	2,478	2,936
MNF	2,569	2,646	3,135	3,467	3,788	4,149	4,524	5,119	4,928	5,253
EGW	186	201	221	244	275	307	334	367	390	434
CON	596	534	582	654	751	839	988	1,136	1,244	1,376
SRV	3,855	4,039	4,344	4,725	5,149	5,665	6,272	6,780	7,221	7,786
ALL	13,483	13,591	15,229	16,262	17,416	19,102	20,562	21,834	23,175	24,529

**GDP Structures of Pakistan**

	74	75	76	77	78	79	80	81	82	83
AGR	5,643	5,895	6,041	6,199	6,414	6,845	7,106	7,383	7,657	7,302
MIN	203	197	232	238	248	281	318	344	368	397
MNF	3,073	3,121	3,180	3,494	3,763	4,136	4,562	5,163	5,622	6,056
EGW	321	333	386	421	462	518	574	601	648	707
CON	878	1,049	1,040	1,126	1,187	1,324	1,380	1,423	1,434	1,581
SRV	6,916	7,110	7,244	7,951	8,455	8,941	9,466	10,234	10,987	11,626
ALL	17,076	17,763	18,190	19,460	20,549	22,066	23,406	25,099	26,633	27,488

**GDP Structures of PHILIPPINES**

	74	75	76	77	78	79	80	81	82	83
AGR	6,016	6,276	6,776	7,112	7,407	7,741	8,126	8,426	8,690	8,508
MIN	668	688	719	830	862	1,017	1,065	1,036	960	937
MNF	6,131	6,346	6,707	7,210	7,736	8,151	8,494	8,781	8,993	9,203
EGW	229	240	268	281	296	333	364	394	428	471
CON	1,078	1,555	2,065	2,271	2,335	2,655	2,804	3,075	3,173	3,020
SRV	8,715	9,301	9,874	10,423	11,062	11,723	12,457	12,790	13,200	13,791
ALL	22,928	24,470	26,469	28,180	29,748	31,632	33,310	34,518	35,478	35,920

**GDP Structures of THAILAND**

	74	75	76	77	78	79	80	81	82	83
AGR	6,593	7,186	7,628	7,586	8,394	8,266	8,425	8,994	9,087	9,428
MIN	429	365	427	518	603	666	703	679	651	649
MNF	3,702	3,958	4,576	5,173	5,651	6,224	6,520	6,939	7,243	7,774
EGW	153	174	200	227	247	284	305	347	370	403
CON	870	993	1,168	1,398	1,583	1,696	1,932	1,807	1,760	1,857
SRV	9,003	9,532	10,139	10,952	12,040	12,980	13,946	15,026	16,031	17,072
ALL	20,668	22,151	24,101	25,836	28,482	30,115	31,831	33,834	35,210	37,281



Tab. 2.3.2: GDP Index for Selected Countries of Asia

BD, GDP Index (1980=100)							
	AGR	MIN	MNF	EGM	CON	SRV	ALL
74	81.7	100.0	72.1	34.4	64.4	63.8	74.1
75	91.3	100.0	77.3	54.0	61.2	76.0	83.2
76	88.5	100.0	80.5	65.2	72.3	80.0	84.0
77	96.2	500.0	81.7	76.4	73.8	84.5	89.7
78	94.8	400.0	92.9	77.2	112.1	91.2	94.0
79	94.9	400.0	94.8	90.0	88.2	96.4	95.1
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	100.9	200.0	101.6	118.4	105.6	99.0	100.6
82	105.6	100.0	99.9	121.2	103.8	102.9	104.1
83	109.7	100.0	104.4	126.0	105.4	107.4	108.2

ID, GDP Index (1980=100)							
	AGR	MIN	MNF	EGM	CON	SRV	ALL
74	82.1	83.0	44.3	47.4	50.1	61.6	66.9
75	82.1	80.0	49.7	52.6	57.1	68.6	70.3
76	86.0	92.0	54.5	59.0	107.2	60.4	74.1
77	87.0	103.4	62.1	62.8	72.6	77.5	80.3
78	91.5	101.4	73.5	76.9	82.8	83.6	86.3
79	95.1	101.2	81.8	88.5	88.1	91.4	91.8
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	104.9	103.3	110.1	115.4	112.7	109.4	107.7
82	107.2	90.8	111.5	135.9	118.6	115.7	109.9
83	112.3	92.5	114.0	144.9	126.0	120.7	114.4

IN, GDP Index (1980=100)							
	AGR	MIN	MNF	EGM	CON	SRV	ALL
74	83.8	75.4	76.5	64.6	74.6	73.2	78.3
75	94.9	84.2	78.2	73.4	85.2	79.0	86.0
76	88.7	87.7	85.1	81.0	93.0	82.9	86.3
77	99.2	89.5	90.6	83.5	102.9	87.9	93.9
78	102.1	91.2	100.5	93.7	100.4	94.6	99.1
79	89.1	93.0	98.7	94.9	95.1	95.4	93.1
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	103.3	107.0	103.7	108.9	100.8	106.2	104.3
82	100.5	121.1	105.5	116.7	106.1	111.0	105.5
83	109.6	133.3	110.7	125.3	107.8	117.7	112.8

KR, GDP Index (1980=100)							
	AGR	MIN	MNF	EGM	CON	SRV	ALL
74	94.4	85.4	47.0	41.4	50.4	66.3	63.9
75	99.0	99.0	52.6	49.3	57.3	70.3	69.0
76	108.3	99.8	65.1	57.4	63.3	78.0	78.1
77	111.0	111.7	75.6	67.6	80.0	86.3	86.9
78	100.9	117.5	91.7	79.3	98.5	96.7	96.1
79	107.7	109.2	101.1	92.9	101.4	103.7	103.3
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	104.9	116.2	107.2	109.7	94.6	110.5	107.2
82	109.3	111.7	111.5	118.8	113.5	116.2	113.3
83	116.1	121.9	123.6	134.5	137.5	125.5	124.5

## LK, GDP Index (1980=100)

	AGR	MIN	MNF	EGW	CON	SRV	ALL
74	80.0	61.5	88.2	60.8	57.3	66.1	74.4
75	81.0	68.0	94.1	64.6	64.8	66.8	76.8
76	84.2	90.9	93.3	67.4	69.1	69.9	79.4
77	88.1	78.5	95.6	69.6	69.8	74.4	82.7
78	94.2	91.8	97.1	72.9	77.3	79.4	87.6
79	98.4	86.5	99.6	91.7	84.7	89.8	94.1
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	107.5	105.3	103.6	112.2	113.4	105.9	106.3
82	110.8	100.8	103.0	122.7	110.8	118.2	112.1
83	117.5	121.1	99.9	124.9	111.6	127.8	117.6

## MY, GDP Index (1980=100)

	AGR	MIN	MNF	EGW	CON	SRV	ALL
74	79.2	68.0	56.8	55.7	60.3	61.5	65.6
75	76.5	67.6	58.5	60.3	54.1	64.4	66.1
76	86.2	81.6	69.3	56.1	59.0	69.3	74.1
77	88.2	82.6	76.6	73.1	66.2	75.3	79.1
78	89.7	90.0	83.7	82.5	76.0	82.1	84.7
79	97.0	102.2	91.7	92.1	84.9	90.3	92.9
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	104.2	98.0	104.9	109.9	115.1	108.1	106.2
82	111.8	100.8	108.9	116.9	126.0	115.1	112.7
83	110.7	119.4	116.1	129.9	139.4	124.1	119.3

## PK, GDP Index (1980=100)

	AGR	MIN	MNF	EGW	CON	SRV	ALL
74	79.4	64.0	67.4	55.9	63.7	73.1	73.0
75	83.8	61.8	68.4	58.0	76.0	75.1	75.9
76	85.0	72.8	69.7	67.3	75.4	76.5	77.7
77	87.2	74.9	76.6	73.3	81.6	84.0	83.1
78	90.3	78.1	82.5	80.4	86.1	89.3	87.8
79	96.3	88.3	90.7	90.2	96.0	94.5	94.3
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	103.9	108.1	113.2	104.7	103.2	108.1	107.2
82	107.8	115.5	123.2	112.8	103.9	116.1	113.8
83	102.8	124.7	132.7	123.2	114.6	122.8	117.4

## PH, GDP Index (1980=100)

	AGR	MIN	MNF	EGW	CON	SRV	ALL
74	74.0	62.7	72.2	63.1	38.5	70.0	68.8
75	77.2	64.6	74.7	65.9	55.4	74.7	73.5
76	83.4	63.7	79.0	73.6	73.6	79.3	79.5
77	87.5	77.9	84.9	77.2	81.0	83.7	84.6
78	91.1	80.9	91.1	81.4	83.3	88.8	89.3
79	95.3	95.4	96.0	91.6	94.7	94.1	95.0
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	103.7	97.3	103.4	108.5	109.7	102.7	102.8
82	106.9	90.2	105.9	117.7	113.2	106.0	106.0
83	104.7	87.9	108.3	129.4	109.7	110.7	109.7

TH, GDP Index (1980=100)

	AGR	MIN	MNF	EGW	CON	SRV	ALL
74	78.3	61.0	56.8	50.1	45.0	64.6	64.9
75	85.3	52.0	60.7	57.2	51.4	68.3	69.6
76	90.5	60.8	70.2	65.5	60.5	72.7	75.7
77	90.0	73.8	79.3	74.5	72.4	78.5	81.2
78	99.6	85.9	86.7	80.9	81.9	86.3	89.5
79	98.1	94.8	95.5	93.1	87.8	93.1	94.6
80	100.0	100.0	100.0	100.0	100.0	100.0	100.0
81	106.8	96.7	106.4	113.8	93.5	107.7	106.3
82	107.9	92.7	111.1	121.5	91.1	115.0	110.6
83	111.9	92.3	119.2	132.2	96.1	122.4	117.1

## 2.4 Industrial Development in Korea

As is examined in the former section, industrial development in Korea is quite brilliant during 1970's. This is a typical pattern of the NICs. Therefore, it is interesting to observe the pattern and process of Korean industrial development in details. In this section, Firstly, the growth pattern of industry is focussed in broad category of industries. Secondly, what industry has contributed to Korean industrial development will be examined.

Fig. 2.4.1 and Tab. 2.4.1 shows value added of industry in broad category from 1970 to 1983. From them, it is clear that the sector, which contributed to the manufacturing value added, is manufacturing of food, beverage and tobacco, manufacturing of textile, manufacturing of chemicals, and manufacturing of machinery. Especially, manufacturing of chemicals and manufacturing of machinery is one of the industries which achieved a rapid progress and is one of capital intensive industries. Needless to say, manufacturing of food, beverage and tobacco and manufacturing of textile also achieved a great growth but the speed of development cannot be compared with the former industries. Textile industry is one of export oriented industries, but the growth rate fell down after 1980. On the other hand, manufacturing of food, beverage and tobacco is to supply the consumption goods for domestic market.

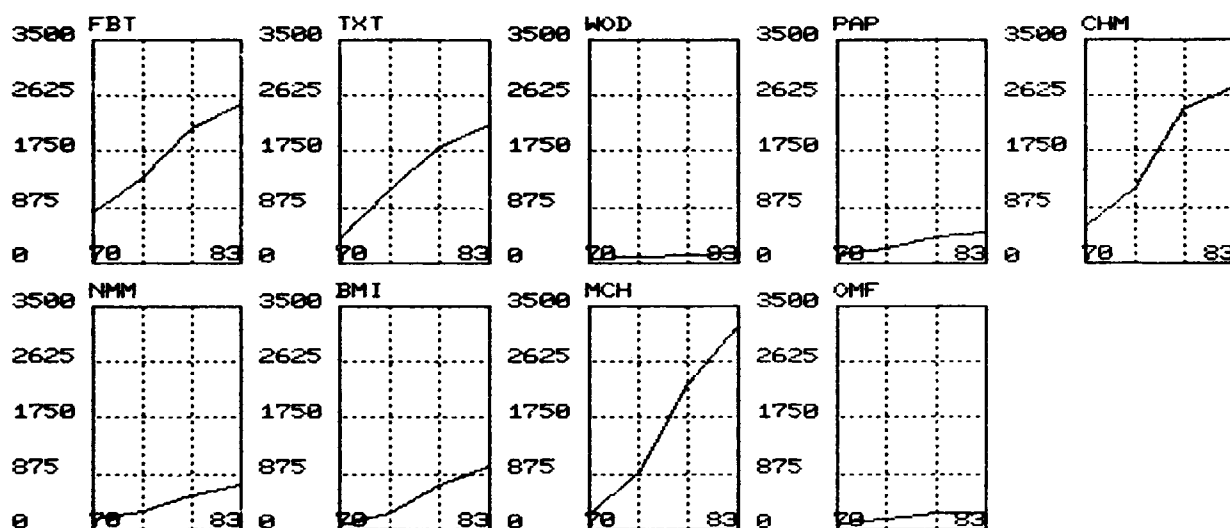
Production growth rate in chemical and machinery industry is

quite high. From 1970 to 1975, value added index for chemical industry shows about 200 and that index in 1980 is 430. This means that the chemical industry in Korea achieved two times growth for each five years from 1970 to 1980. In respect to machinery industry, more rapid growth was realized as four times from 1970 to 1975 and 2.5 times from 1975 to 1980. In this way, 1970's Korean industrial development was led by such heavy industries but not by light industries such as textile. In addition, growth rate of basic metal industry is also brilliantly high and exceeds that of chemical and machinery industry. For ten years, the value added of basic metal industry became more than ten times.

Fig. 2.4.2 shows a production index of manufacturing industries in 3-digit level of ISIC. A solid line indicates an actual production index (1980=100). A broken line shows a relative production index, which means the index normalized by the average production index of whole manufacturing industries. From the figure, it can be comprehended that the industry, of which the broken line is an upgrade, is one of the industries, which achieved a higher growth compared with the others. In this manner, several high growth industries can be listed up easily. Manufacturing of pottery and chinaware (ISIC 361), iron and steel industry (ISIC 371), non-ferrous metal industry (ISIC 372), manufacturing of metal products (ISIC 381), manufacturing of electrical machinery (ISIC 383), and manufacturing of transport equipment (ISIC 384) are relatively high growth industries. These industries are categorized into heavy

industries and their products have been exported to the market of developed countries after the later half of 1970's.

Fig. 2.4.1: Manufacturing Value Added in Broad Industrial Category at 1980 Constant Price, Korea (Thousand Million Korean Won)



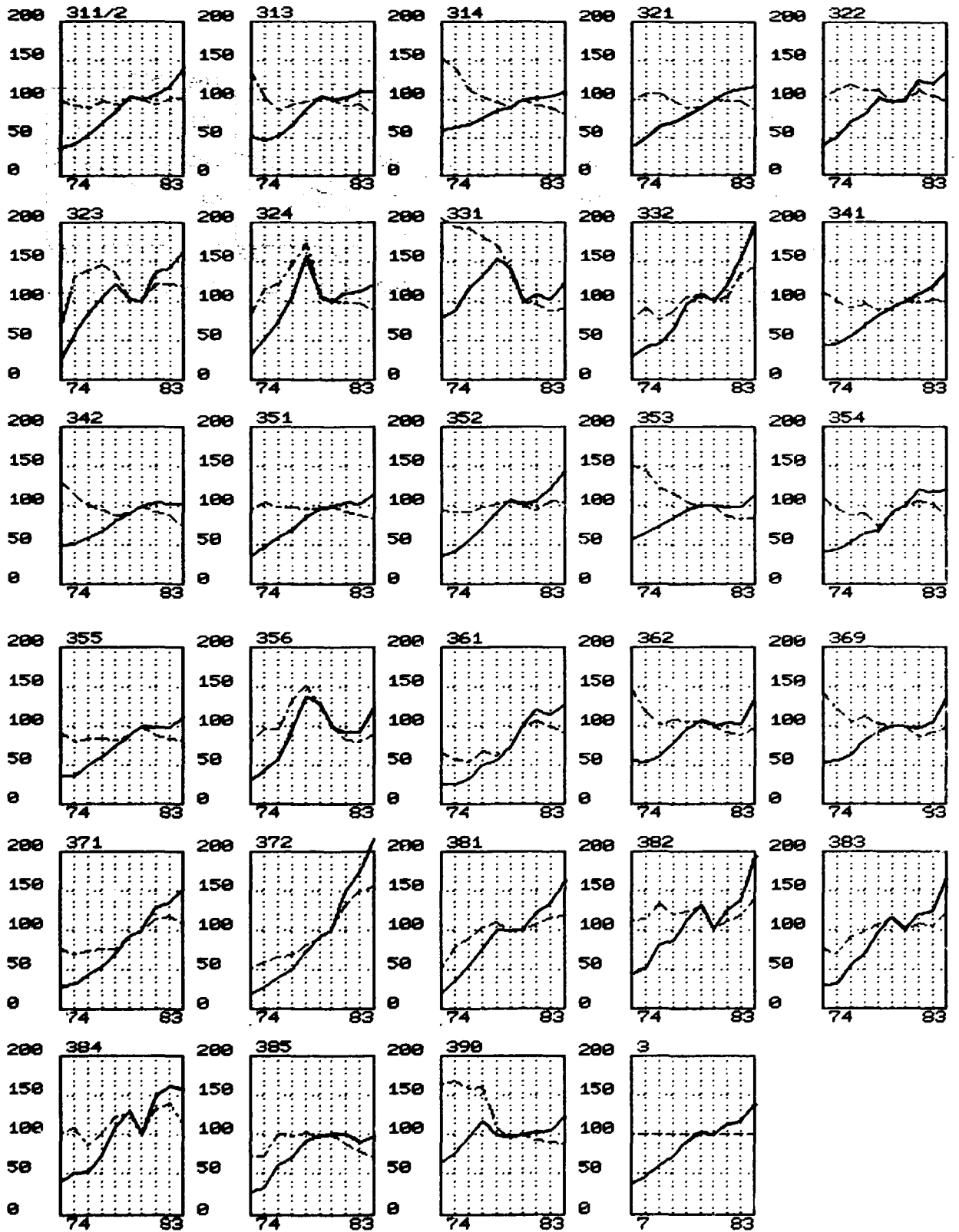
(Source) UN, National Accounts Statistics: Main Aggregates and Detailed Tables, 1983

Tab. 2.4.1: Manufacturing Value Added in Broad Industrial Category at 1980 Constant Price, Korea (Thousand Million Korean Won)

KR, MVA at Constant Price (1980=100) (TM. KR won)	KR, GDP Composition (%)							
	70	75	80	83				
FBT	806	1358	2119	2515	100.0	100.0	100.0	100.0
TXT	385	1160	1830	2182	32.6	24.1	19.8	19.0
WOD	59	95	138	152	15.7	20.6	17.1	16.5
PAP	120	215	403	471	2.4	1.7	1.3	1.1
CHM	569	1191	2449	2745	4.9	3.8	3.8	3.6
NMM	145	288	545	702	23.1	21.2	22.9	20.7
BMI	56	259	695	1008	5.9	5.1	5.1	5.3
MCH	229	910	2264	3190	2.3	4.6	6.5	7.6
ONF	89	153	263	271	9.3	16.2	21.1	24.1
KR, GDP Index (1980=100)					3.6	2.7	2.5	2.0
	70	75	80	83				
FBT	100.0	168.5	262.9	312.0				
TXT	100.0	301.3	475.3	566.8				
WOD	100.0	161.0	233.9	257.6				
PAP	100.0	179.2	335.8	392.5				
CHM	100.0	209.3	430.4	482.4				
NMM	100.0	198.6	375.9	484.1				
BMI	100.0	462.5	1241.1	1800.0				
MCH	100.0	397.4	988.6	1393.0				
ONF	100.0	171.9	295.5	304.5				

(Source) UN, National Accounts Statistics: Main Aggregates and Detailed Tables, 1983

Fig. 2.4.2: Index Number of Manufacturing Production (1980=100),  
Korea



(Source) UN, Industrial Statistics Yearbook, 1983 (Vol. I)



### 3. Industrial Development and International Trade

In the previous chapter, the industrial growth pattern and the characteristics of industrial structure of each country were investigated. Among them, it is investigated that industrial development in NICs was rapidly achieved in 1970's. Although there were in the early half of 1980's, Asian NICs overcomes such suffering situation.

As a typical case, the characteristics of Korean industrial development were observed. It does not seem that Korean development is a special case. In Hong Kong and Singapore, the same patterns can be seen in their manufacturing development in macro-base. Due to lack of the data for international comparison, it was not able to compare those pattern in the framework of production index and value added index.

In this chapter, it is concerned to observe the relation of international trade with industrial development. There are many reasons why international trade is exceedingly important for the industrial development. In Korea, the import substitution industrialization and export oriented industrialization were parallelly pursued and both industrializations have been realized.

In the other countries, the similar pattern will be found in

their industrial development. For example, an introduction of free trade zone is one of export oriented industrializations and this is now ordinary in the developing countries. On the other hand, import substitution policies are introduced through the technology transfer from the industrialized countries.

Fig. 3.1.1 to Fig. 3.1.12 shows a movement of index of revealed comparative advantage in Asian selected countries. At a glance, many characteristics are observed from them.

Common things in NICs are: (1) index of revealed comparative advantage in light manufacturing industries is decreasing; but (2) that of heavy industries is increased. On the other hand, developing countries except NICs are catching up in the field of light manufacturing industries.

Secondly, since the later half of 1970's, restructuring of industry is gradually sprouting not only within the country but also international markets, a future industrialization will be more dependent on the international situation and a multi-stratum relation will appear between developing countries and between developing countries and developed countries.

In respect with heavy industry such as iron and steel industry, chemical industry and machinery industry, NICs is participating the world markets and the markets of developed countries. How-

ever, the developing countries except NICs will compete in the light industries such as textile industry, wood and furniture industry, and food industry.

Fig. 3.1.1: Index of Revealed Comparative Advantage for Singapore

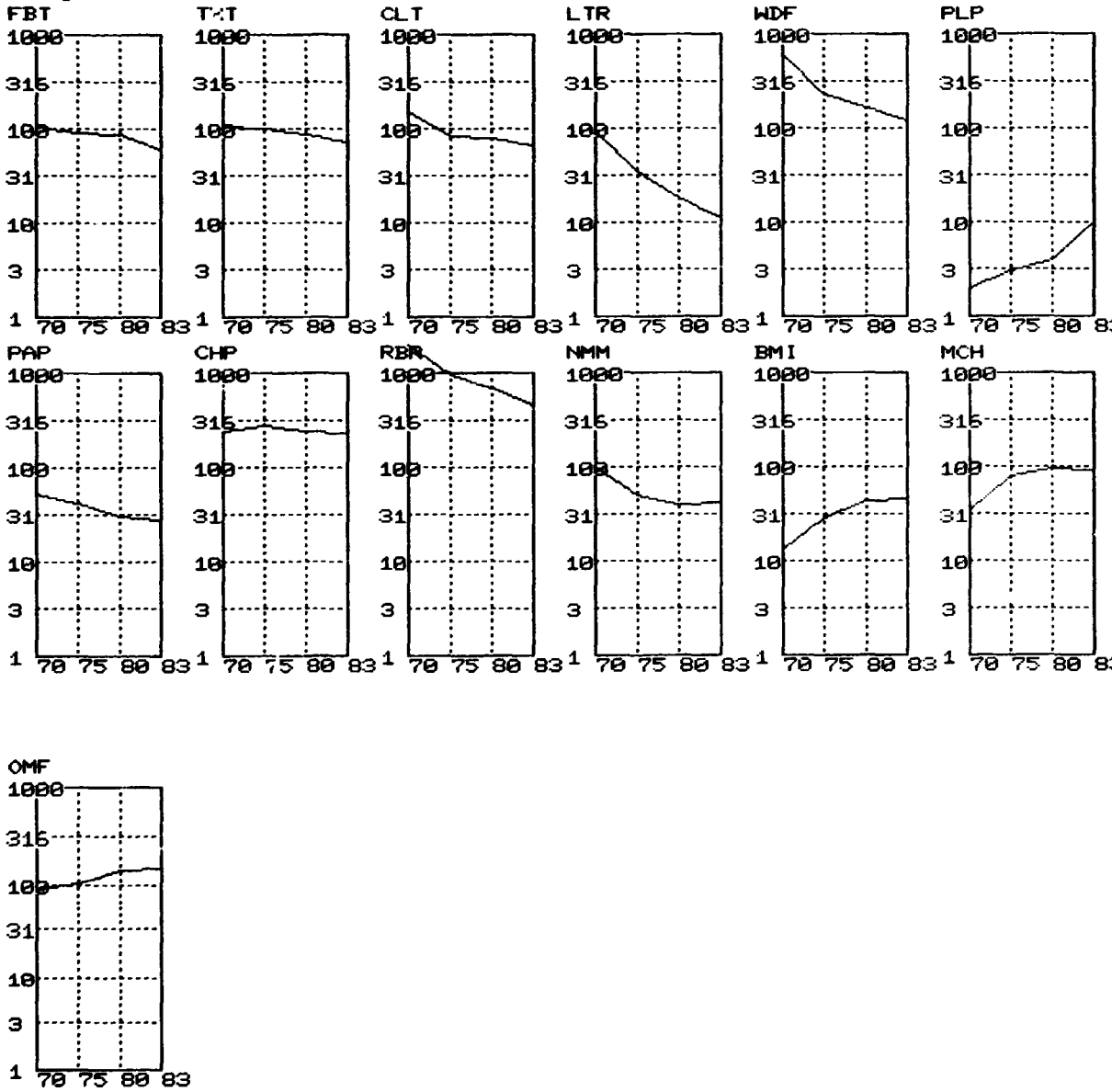


Fig. 3.1.2: Index of Revealed Comparative Advantage for Korea

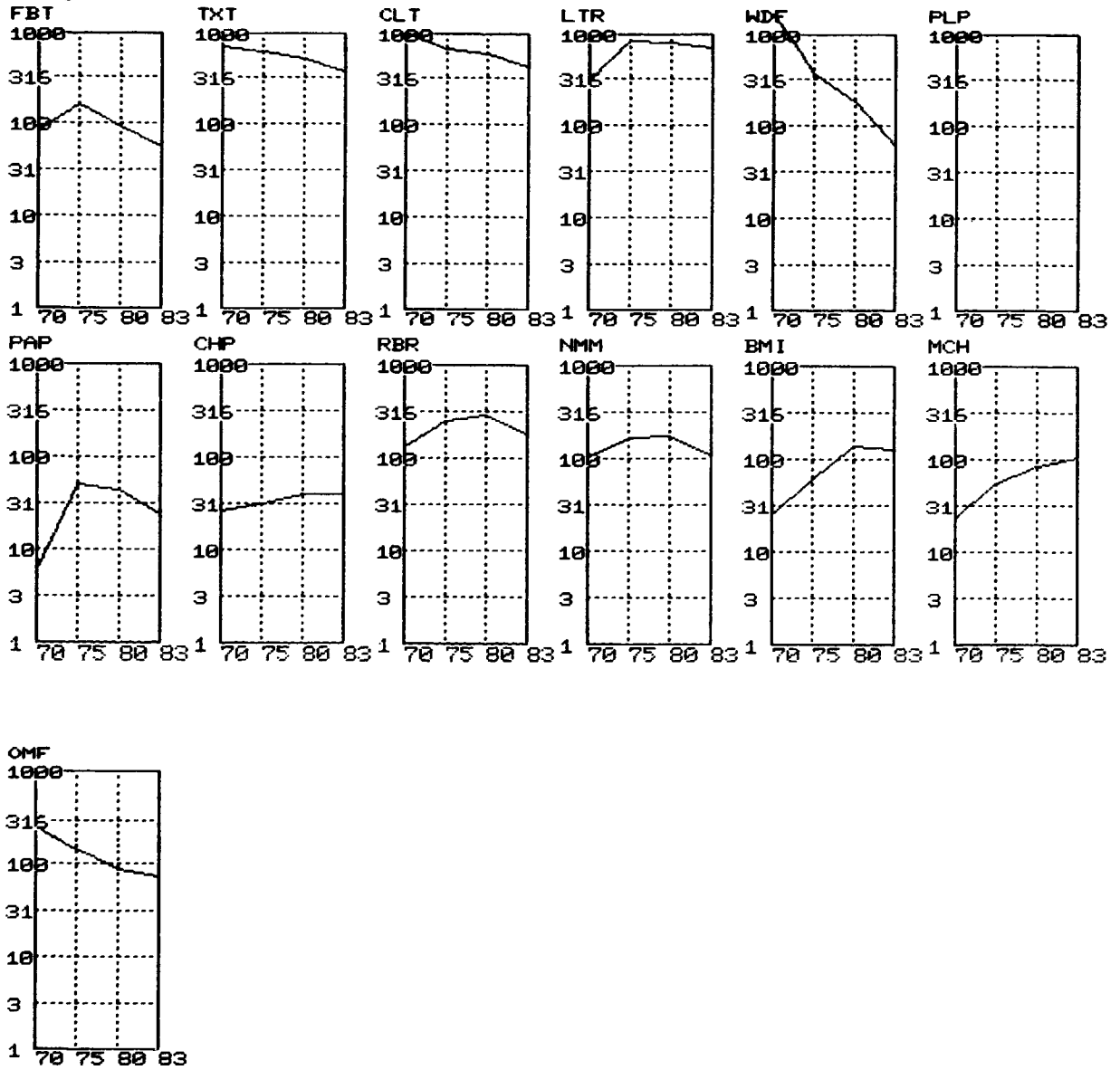


Fig. 3.1.3: Index of Revealed Comparative Advantage for Hong Kong

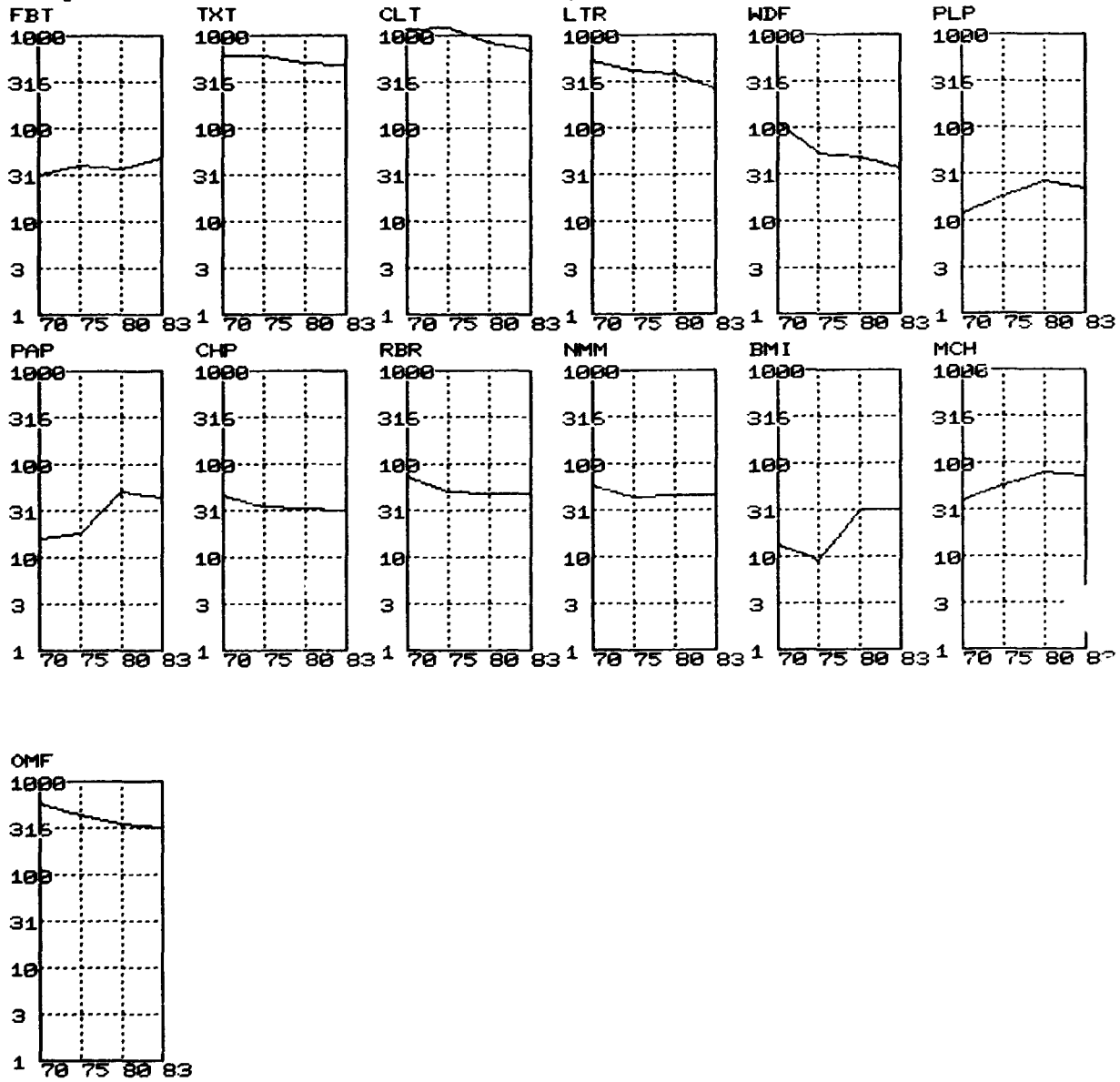


Fig. 3.1.4: Index of Revealed Comparative Advantage for Taiwan

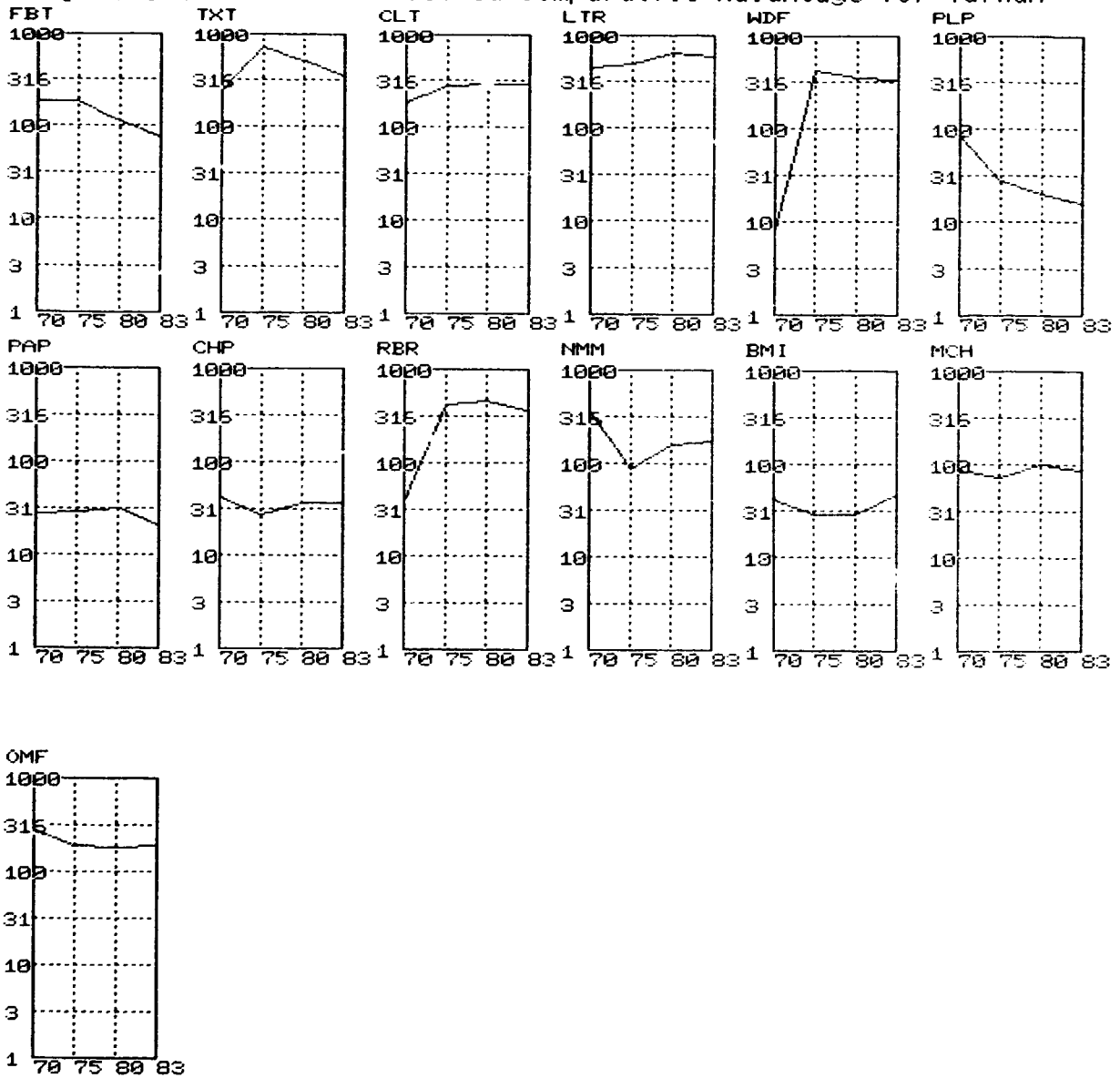


Fig. 3.1.5: Index of Revealed Comparative Advantage for Indonesia

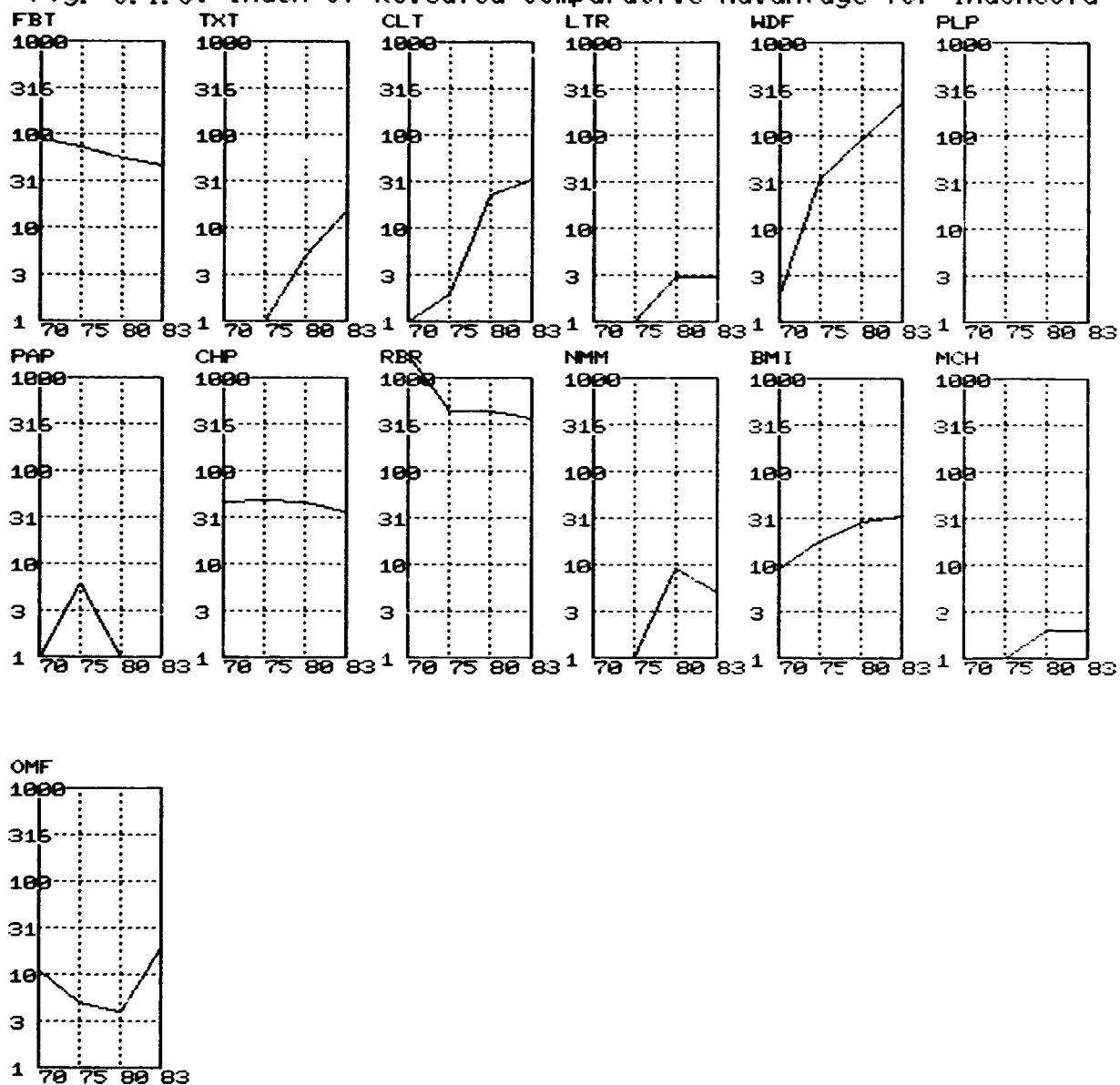




Fig. 3.1.6: Index of Revealed Comparative Advantage for Thailand

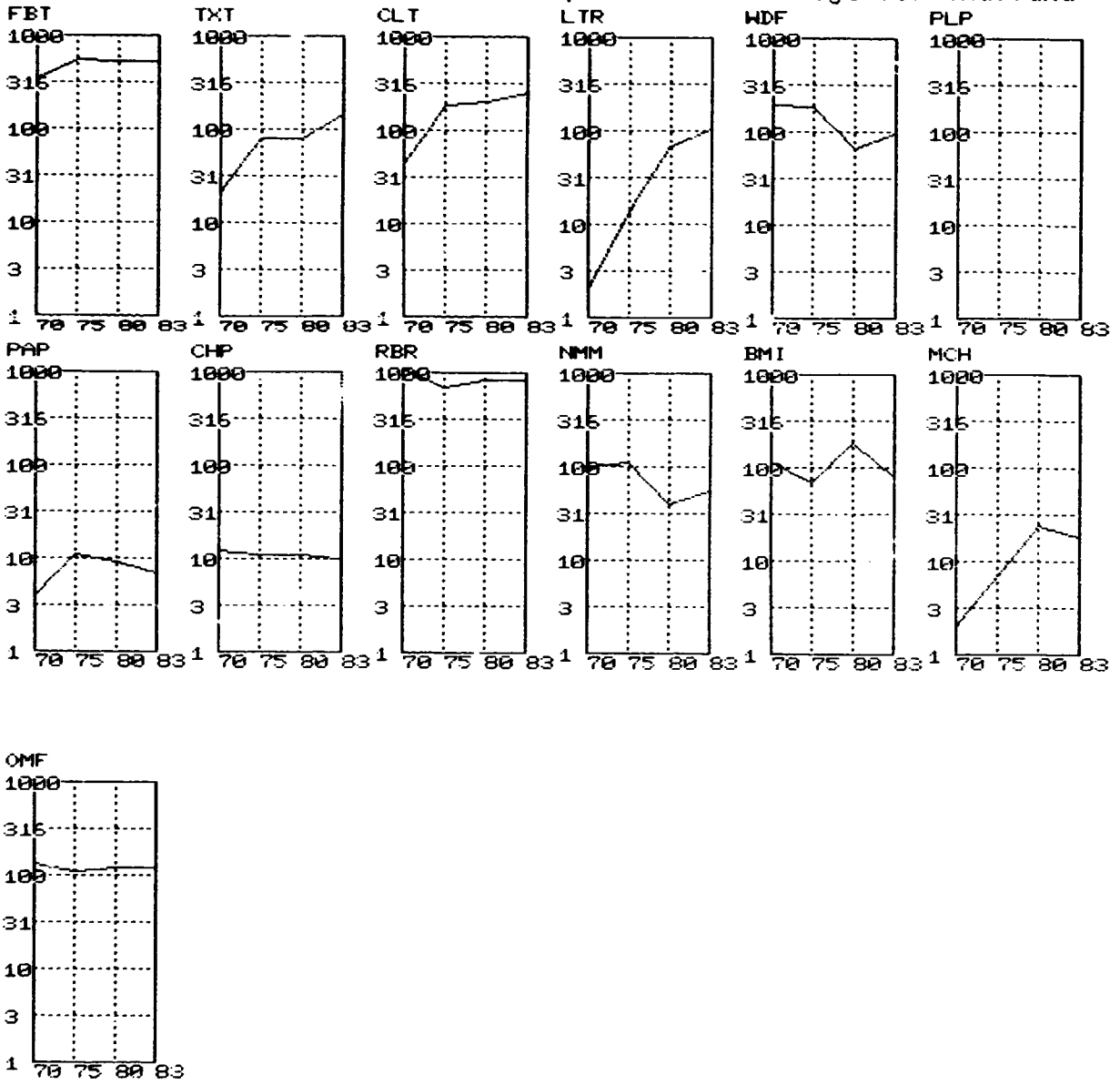


Fig. 3.1.7: Index of Revealed Comparative Advantage for Malaysia

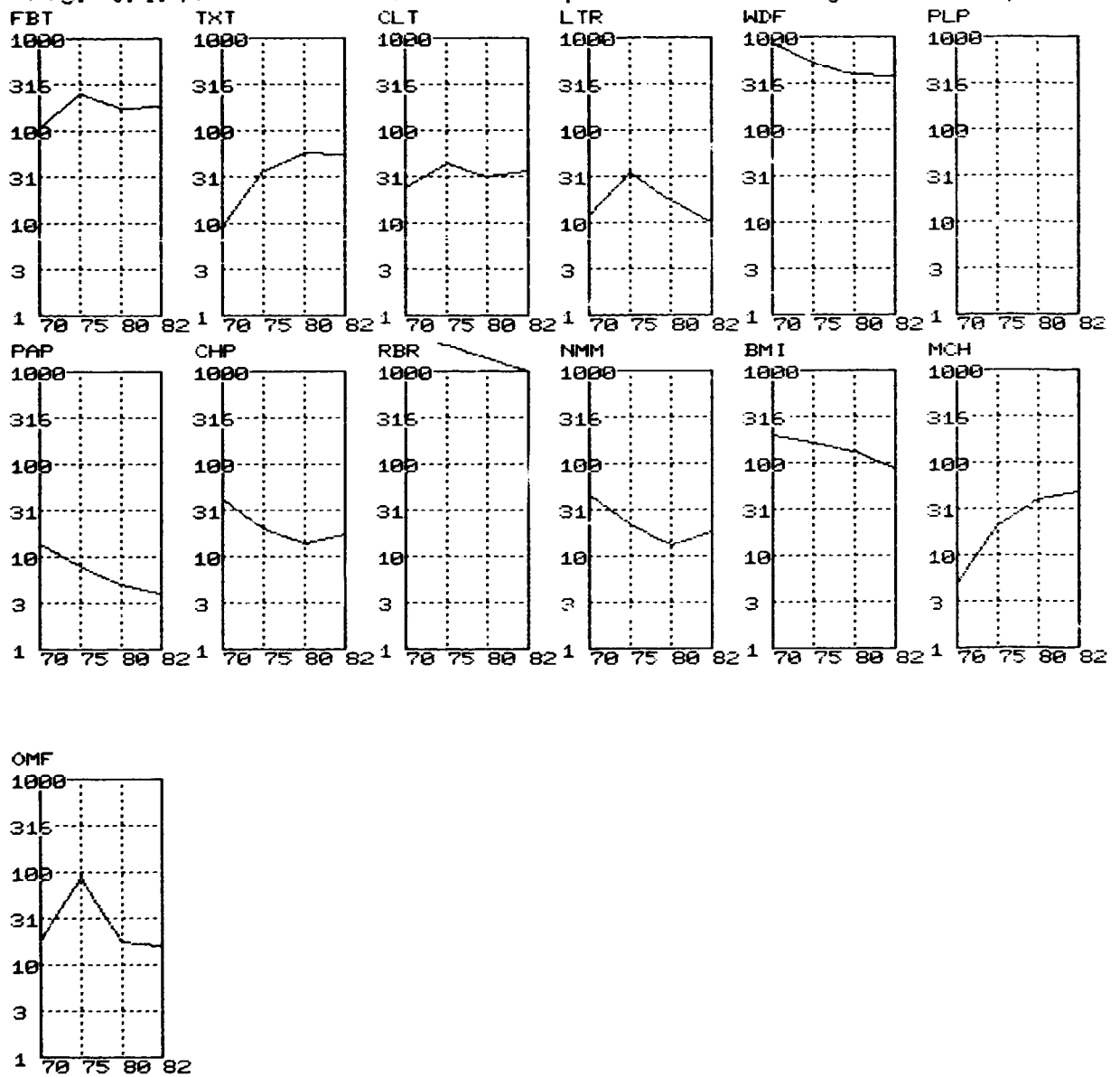


Fig. 3.1.8: Index of Revealed Comparative Advantage for Philippines

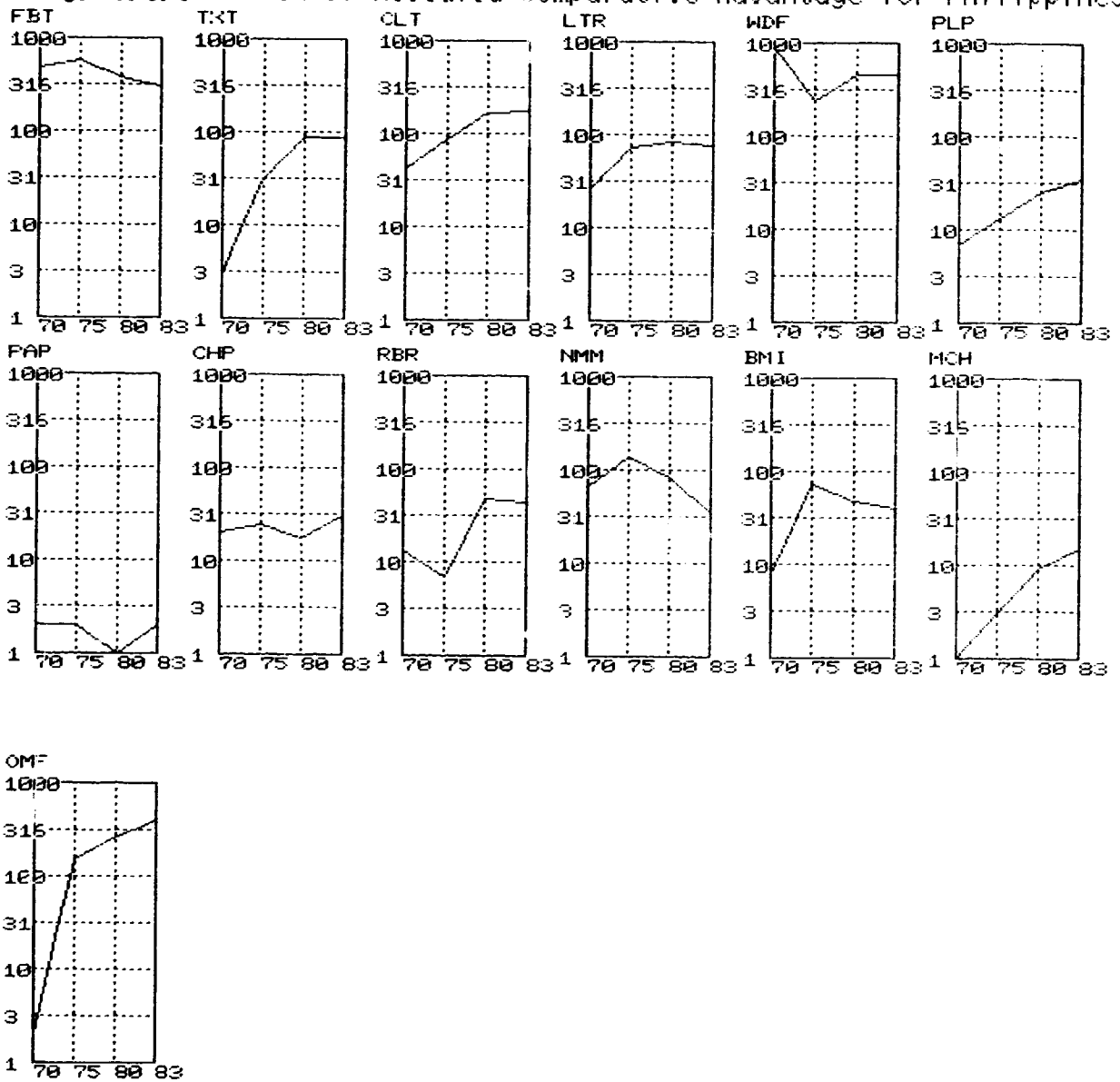


Fig. 3.1.9: Index of Revealed Comparative Advantage for Bangladesh

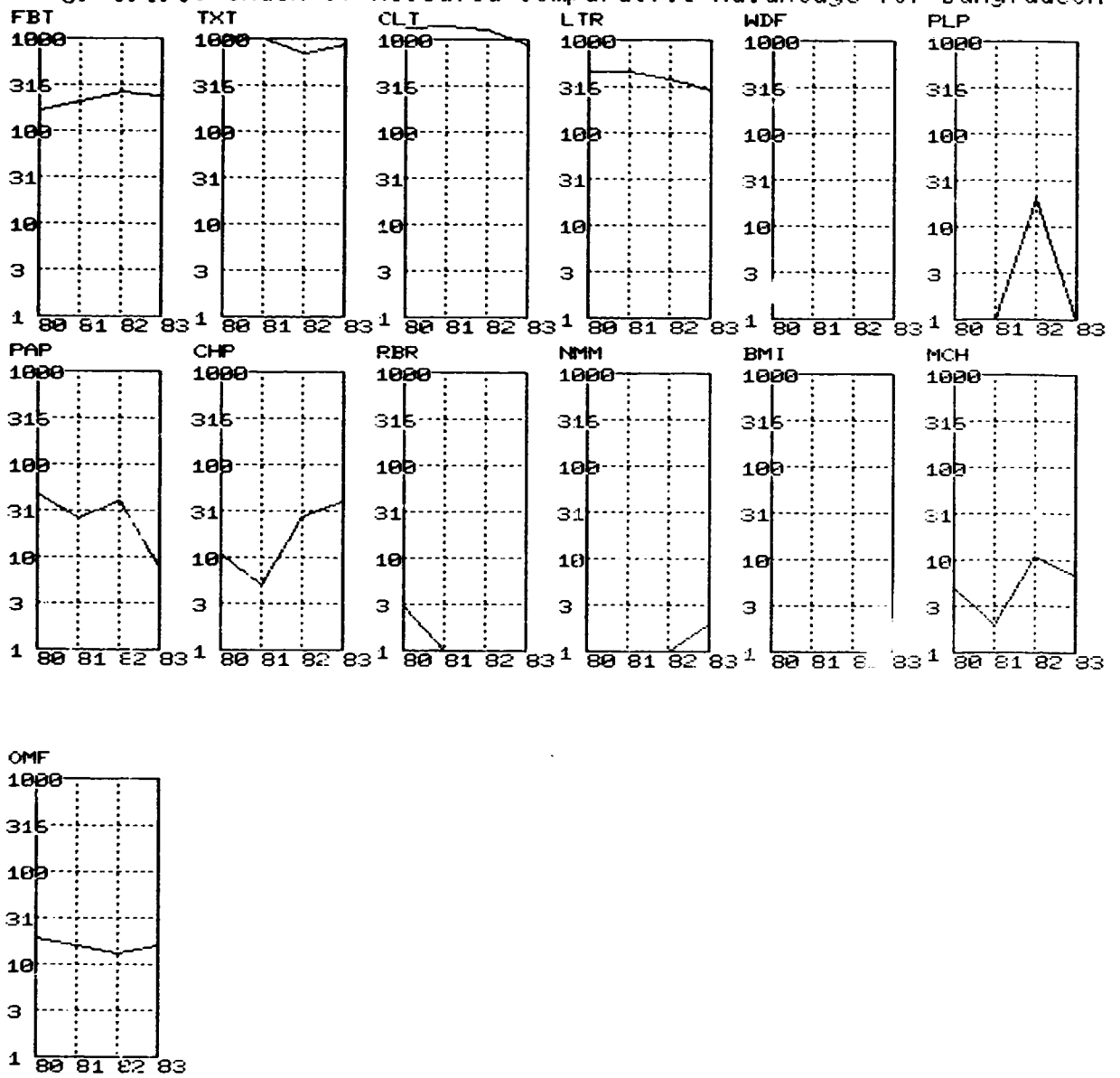


Fig. 3.1.10: Index of Revealed Comparative Advantage for Pakistan

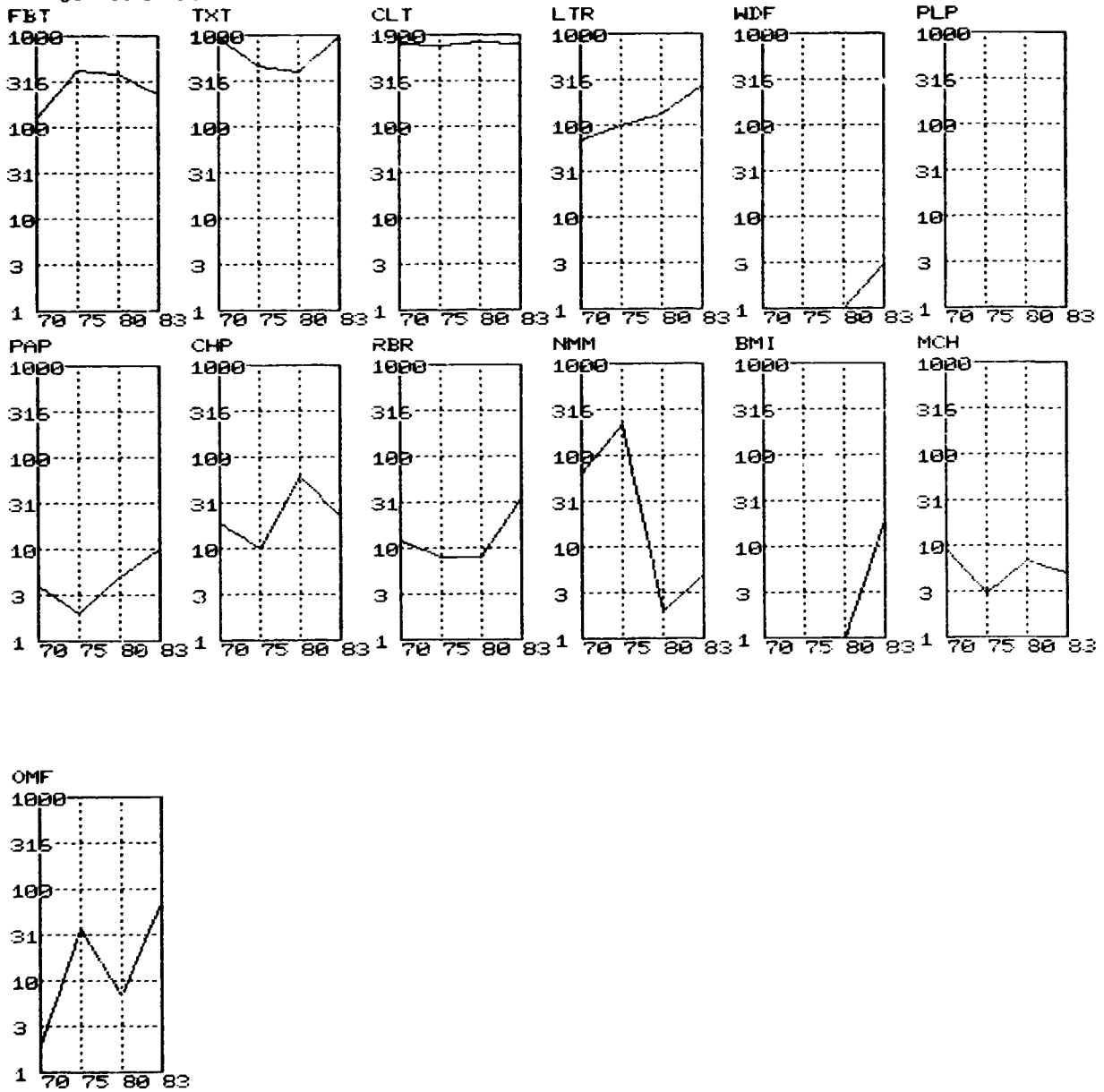


Fig. 3.1.11: Index of Revealed Comparative Advantage for India

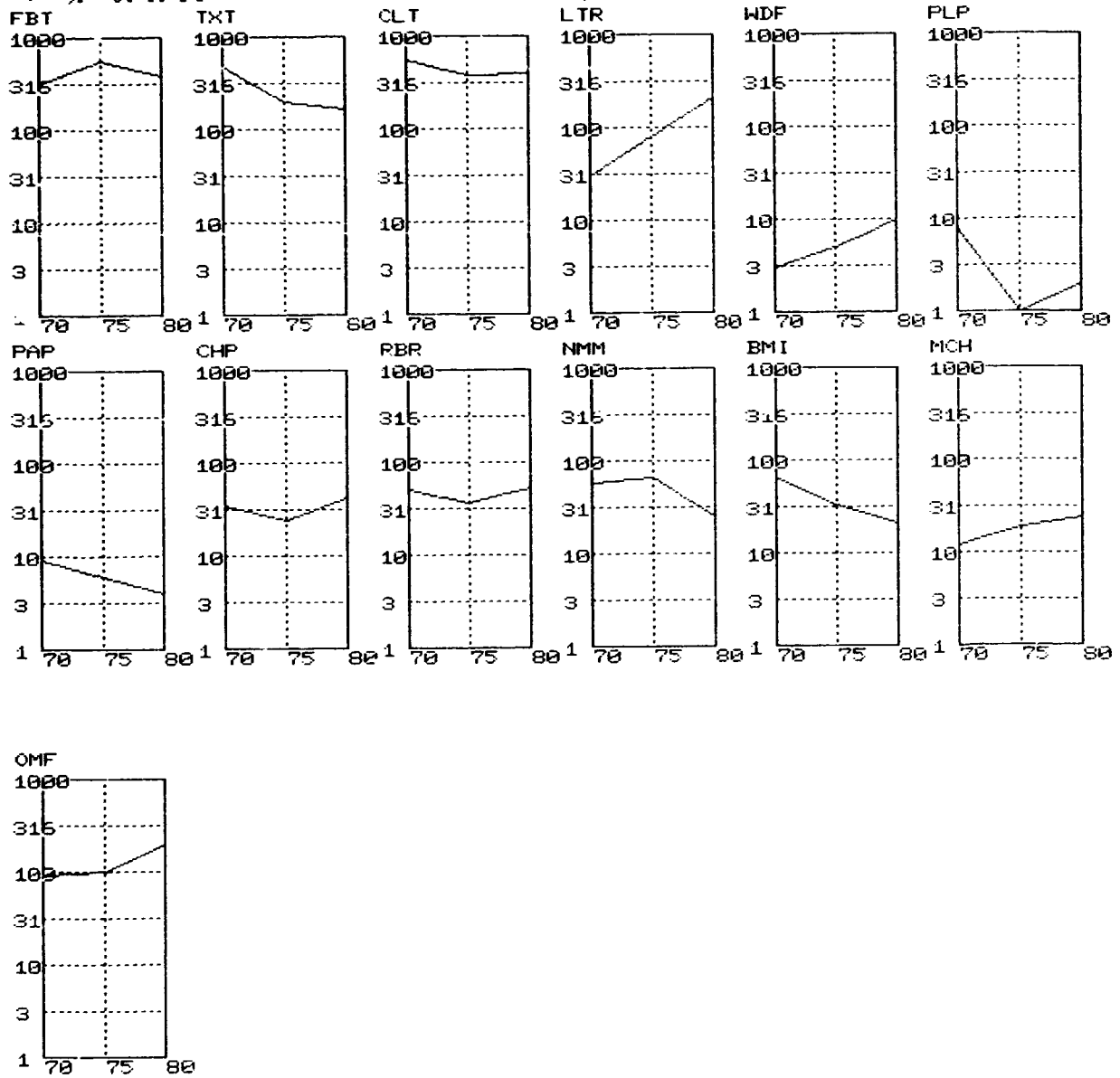
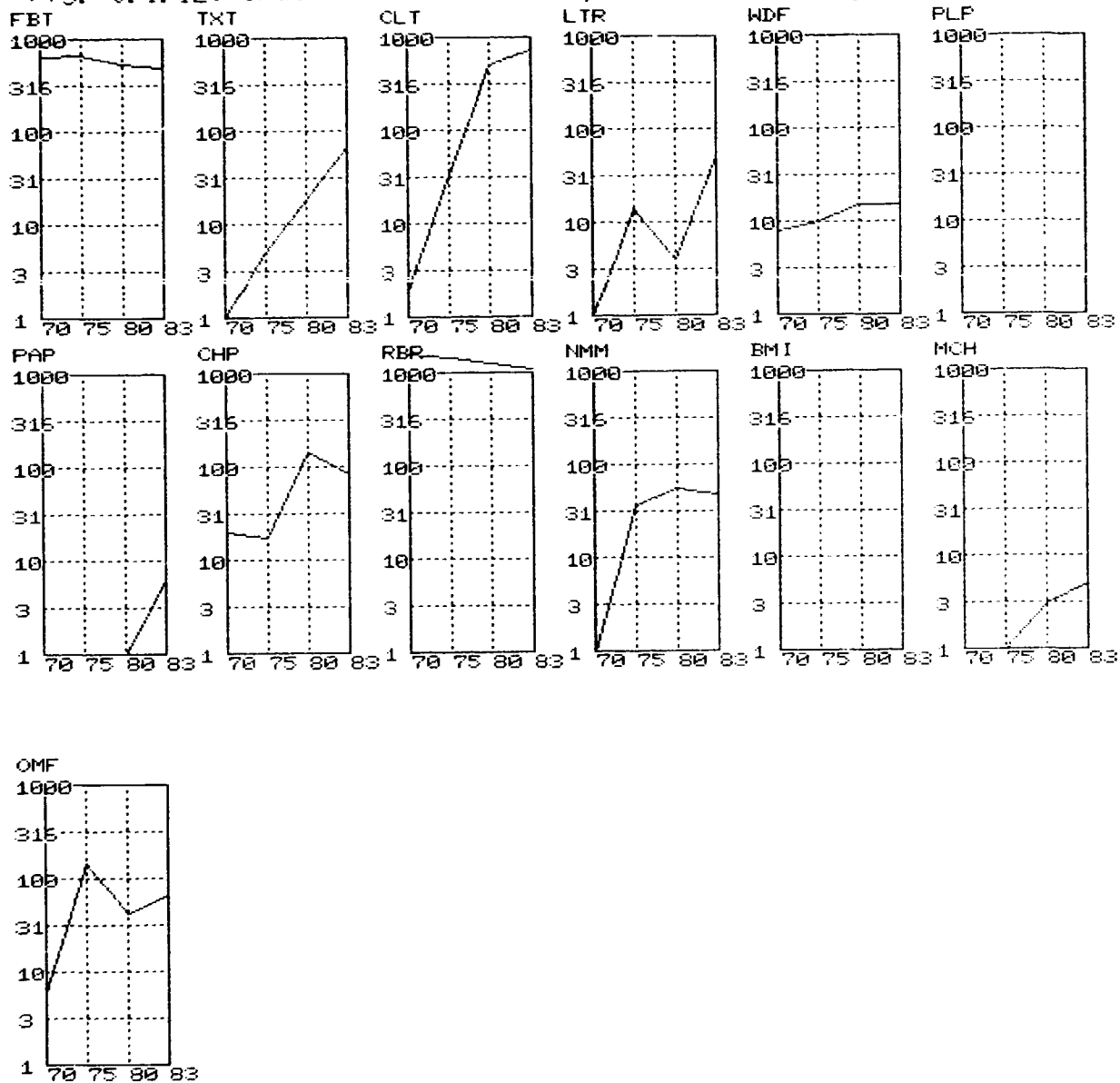


Fig. 3.1.12: Index of Revealed Comparative Advantage for Sri Lanka



Tab. 3.1.1: Index of Revealed Comparative Advantage, Singapore

Sector	(1) Index (100 x Si / S)			
	1970	1975	1980	1983
FBT	106	93	87	60
TXT	105	102	87	72
CLT	148	83	78	67
LTR	90	34	18	11
WDF	596	230	166	118
PLP	2	3	4	10
PAP	53	42	30	28
CHP	237	277	241	226
RBR	1967	972	695	459
NMM	100	49	39	41
BMI	13	29	43	46
MCH	35	81	96	91
OMF	91	103	145	153

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	-12.3	-6.5	-31.0
TXT	-2.9	-14.7	-17.2
CLT	-43.9	-6.0	-14.1
LTR	-62.2	-47.1	-38.9
WDF	-61.4	-27.8	-28.9
PLP	50.0	33.3	150.0
PAP	-20.8	-28.6	-6.7
CHP	16.9	-13.0	-6.2
RBR	-50.6	-28.5	-34.0
NMM	-51.0	-20.4	5.1
BMI	123.1	48.3	7.0
MCH	131.4	18.5	-5.2
OMF	13.2	40.8	5.5

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	38.9	57.6	65.4	56.4
TXT	38.5	63.2	65.4	67.7
CLT	54.3	51.4	58.6	63.0
LTR	33.0	21.1	13.5	10.3
WDF	218.7	142.5	124.8	111.0
PLP	0.7	1.9	3.0	9.4
PAP	19.4	26.0	22.6	26.3
CHP	87.0	171.6	181.2	212.6
RBR	721.7	602.3	522.6	431.8
NMM	36.7	30.4	29.3	38.6
BMI	4.8	18.0	32.3	43.3
MCH	12.8	50.2	72.2	85.6
OMF	33.4	63.8	109.0	143.9



Tab. 3.1.2: Index of Revealed Comparative Advantage, Korea

Sector	(1) Index ( $100 \times S_i / S$ )			
	1970	1975	1980	1983
FBT	82	155	90	55
TXT	678	606	496	367
CLT	1042	665	582	411
LTR	299	823	797	681
WDF	1736	370	180	59
PLP	0	0	0	0
PAP	6	49	43	24
CHP	26	31	40	40
RBR	129	247	289	183
NMM	104	163	174	110
BMI	25	59	138	127
MCH	23	54	84	105
OMF	281	142	87	73

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	89.0	-41.9	-38.9
TXT	-10.6	-18.2	-26.0
CLT	-36.2	-12.5	-29.4
LTR	175.3	-3.2	-14.6
WDF	-78.7	-51.4	-67.2
PLP			
PAP	716.7	-12.2	-44.2
CHP	19.2	29.0	0.0
RBR	91.5	17.0	-36.7
NMM	56.7	6.7	-36.8
BMI	136.0	133.9	-8.0
MCH	134.8	55.6	25.0
OMF	-49.5	-38.7	-16.1

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	24.1	59.9	39.0	32.0
TXT	198.9	234.2	214.9	213.5
CLT	305.7	257.0	252.2	239.1
LTR	87.7	318.0	345.4	396.1
WDF	509.3	143.0	78.0	34.3
PLP	0.0	0.0	0.0	0.0
PAP	1.8	18.9	18.6	14.0
CHP	7.6	12.0	17.3	23.3
RBR	37.8	95.5	125.2	106.4
NMM	30.5	63.0	75.4	64.0
BMI	7.3	22.8	59.9	73.9
MCH	6.7	20.9	36.4	61.1
OMF	82.4	54.9	37.7	42.5

Tab. 3.1.3: Index of Revealed Comparative Advantage, Hong Kong

Sector	(1) Index (100 x Si / S)			
	1970	1975	1980	1983
FBT	32	40	37	47
TXT	613	613	505	471
CLT	1168	1187	848	691
LTR	527	410	376	268
WDF	117	52	48	36
PLP	12	18	26	22
PAP	16	18	49	44
CHP	45	34	33	32
RBR	73	51	48	48
NMM	58	44	46	45
BMI	13	9	31	31
MCH	40	57	81	71
OMF	581	427	346	310

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	25.0	-7.5	27.0
TXT	0.0	-17.6	-6.7
CLT	1.6	-28.6	-18.5
LTR	-22.2	-8.3	-28.7
WDF	-55.6	-7.7	-25.0
PLP	50.0	44.4	-15.4
PAP	12.5	172.2	-10.2
CHP	-24.4	-2.9	-3.0
RBR	-30.1	-5.9	0.0
NMM	-24.1	4.5	-2.2
BMI	-30.8	244.4	0.0
MCH	-2.5	42.1	-12.3
OMF	-26.5	-19.0	-10.4

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	12.6	17.6	19.4	28.9
TXT	241.9	269.2	265.4	289.4
CLT	460.8	521.3	445.6	424.5
LTR	207.9	180.1	197.6	164.7
WDF	46.2	22.8	25.2	22.1
PLP	4.7	7.9	13.7	13.5
PAP	6.3	7.9	25.7	27.0
CHP	17.8	14.9	17.3	19.7
RBR	28.8	22.4	25.2	29.5
NMM	22.9	19.3	24.2	27.6
BMI	5.1	4.0	16.3	19.0
MCH	15.8	25.0	42.6	43.6
OMF	229.2	187.5	181.8	190.5

Tab. 3.1.4: Index of Revealed Comparative Advantage, Taiwan

Sector	(1) Index (100 x Si / S)			
	1970	1975	1980	1983
FBT	180	180	108	76
TXT	238	689	491	349
CLT	186	274	289	291
LTR	446	479	622	579
WDF	8	411	339	338
PLP	83	27	20	16
PAP	28	23	31	21
CHP	42	28	36	36
RBR	38	421	456	366
NMM	368	88	162	176
BMI	41	29	29	47
MCH	87	71	99	86
OMF	281	188	184	194

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	0.0	-40.0	-29.6
TXT	189.5	-28.7	-28.9
CLT	47.3	5.5	0.7
LTR	7.4	29.9	-6.9
WDF	5037.5	-17.5	-0.3
PLP	-67.5	-25.9	-20.0
PAP	3.6	6.9	-32.3
CHP	-33.3	28.6	0.0
RBR	1007.9	8.3	-19.7
NMM	-76.1	84.1	8.6
BMI	-29.3	0.0	62.1
MCH	-18.4	35.4	-13.1
OMF	-33.1	-2.1	5.4

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	115.5	80.3	49.0	38.4
TXT	152.7	307.4	222.7	176.2
CLT	119.3	122.2	131.1	146.9
LTR	286.2	213.7	282.1	292.3
WDF	5.1	183.4	153.8	170.6
PLP	53.3	12.0	9.1	8.1
PAP	18.0	12.9	14.1	10.6
CHP	26.9	12.5	16.3	18.2
RBR	24.4	187.8	206.8	184.8
NMM	236.1	39.3	73.5	88.9
BMI	26.3	12.9	13.2	23.7
MCH	55.8	31.7	44.9	43.4
OMF	180.3	83.9	83.5	97.9

Tab. 3.1.5: Index of Revealed Comparative Advantage, Indonesia

Sector	(1) Index ( $100 \times S_i / S$ )			
	1970	1975	1980	1983
FBT	88	73	55	45
TXT	9	0	5	15
CLT	1	2	23	33
LTR	0	1	3	3
WDF	2	34	91	224
PLP	0	0	0	0
PAP	0	6	1	1
CHP	45	47	45	37
RBR	1717	432	441	370
NMM	0	0	9	5
BMI	9	18	29	33
MCH	0	1	2	2
OMF	11	5	4	19

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	-17.0	-24.7	-18.2
TXT	0.0	0.0	200.0
CLT	100.0	1050.0	43.5
LTR	0.0	200.0	0.0
WDF	1600.0	167.6	146.2
PLP	0.0	0.0	0.0
PAP	0.0	-83.5	0.0
CHP	4.4	-4.3	-17.8
RBR	-74.8	2.1	-16.1
NMM	0.0	0.0	-44.4
BMI	100.0	61.1	13.8
MCH	0.0	100.0	0.0
OMF	-54.5	-20.0	375.0

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	61.1	153.3	101.0	74.3
TXT	0.0	0.0	9.2	24.8
CLT	0.7	4.2	42.2	54.5
LTR	0.0	2.1	5	5.0
WDF	1.4	71.4	167.1	370.0
PLP	0.0	0.0	0.0	0.0
PAP	0.0	12.6	1.8	1.7
CHP	31.2	98.7	82.6	61.1
RBR	1191.7	907.3	809.7	611.2
NMM	0.0	0.0	16.5	8.3
BMI	6.2	37.8	53.2	54.5
MCH	0.0	2.1	3.7	3.3
OMF	7.6	10.5	7.3	31.4

Tab. 3.1.6: Index of Revealed Comparative Advantage, Thailand

Sector	(1) Index ( $100 \times S_i / S$ )			
	1970	1975	1980	1983
FBT	341	551	518	532
TXT	21	79	81	143
CLT	44	183	200	251
LTR	2	14	68	105
WDF	187	179	65	94
PLP	0	0	0	1
PAP	4	11	9	7
CHP	12	11	11	10
RBR	1099	678	851	821
NMM	101	112	40	56
BMI	116	70	181	79
MCH	2	7	24	18
OMF	130	108	118	122

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	61.6	-6.0	2.7
TXT	276.2	2.5	76.5
CLT	315.9	9.3	25.5
LTR	600.0	385.7	54.4
WDF	-4.3	-63.7	44.6
PLP	0.0	0.0	0.0
PAP	175.0	-18.2	-22.2
CHP	-8.3	0.0	-9.1
RBR	-38.3	25.5	-3.5
NMM	10.9	-64.3	40.0
BMI	-39.7	158.6	-56.4
MCH	250.0	242.9	-25.6
OMF	-16.9	9.3	3.4

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	215.3	357.6	310.9	308.9
TXT	13.3	51.3	48.6	83.0
CLT	27.6	118.8	120.0	145.7
LTR	1.3	9.1	40.8	61.0
WDF	118.1	116.2	39.0	54.6
PLP	0.0	0.0	0.0	0.6
PAP	2.5	7.1	5.4	4.1
CHP	7.6	7.1	6.6	5.8
RBR	693.9	440.0	510.8	476.7
NMM	63.8	72.7	24.0	32.5
BMI	73.2	45.4	108.6	45.9
MCH	1.3	4.5	14.4	10.5
OMF	82.1	70.1	70.8	70.8

Tab. 3.1.7 Index of Revealed Comparative Advantage, Malaysia

Sector	(1) Index ( $100 \times S_i / S$ )			
	1970	1975	1980	1982
FBT	103	250	177	179
TXT	9	36	57	55
CLT	24	43	32	37
LTR	12	34	17	10
WDF	879	527	393	373
PLP	0	1	0	0
PAP	14	8	5	4
CHP	42	20	14	17
RBR	2429	1926	1405	979
NMM	46	22	13	18
BMI	201	168	130	89
MCH	5	21	40	47
OMF	18	86	17	16

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-82
FBT	142.7	-29.2	1.1
TXT	300.0	58.3	-3.5
CLT	79.2	-25.6	15.6
LTR	183.3	-50.0	-41.2
WDF	-40.0	-25.4	-5.1
PLP	0.0	-100.0	0.0
PAP	-42.9	-37.5	-20.0
CHP	-52.4	-36.0	21.4
RBR	-20.7	-27.1	-30.3
NMM	-52.2	-40.9	38.5
BMI	-16.4	-22.6	-31.5
MCH	320.0	90.5	17.5
OMF	377.8	-80.2	-5.9

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1982
FBT	35.4	103.4	100.0	127.6
TXT	3.1	14.9	32.2	39.2
CLT	8.2	17.8	18.1	26.4
LTR	4.1	14.1	9.6	7.1
WDF	302.1	218.0	222.1	265.8
PLP	0.0	0.4	0.0	0.0
PAP	4.8	3.3	2.8	2.9
CHP	14.4	8.3	7.9	12.1
RBR	834.9	796.9	794.1	697.8
NMM	15.8	9.1	7.3	12.8
BMI	69.1	69.5	73.5	63.4
MCH	1.7	8.7	22.6	33.5
OMF	6.2	35.6	9.6	11.4

Tab. 3.1.8: Index of Revealed Comparative Advantage, Philippines

Sector	(1) Index ( $100 \times S_i / S$ )			
	1970	1975	1980	1983
FBT	474	524	385	302
TXT	3	32	89	88
CLT	42	96	154	175
LTR	26	71	84	76
WDF	885	236	465	465
PLP	7	13	25	34
PAP	2	2	1	2
CHP	20	24	17	30
RBR	13	7	48	43
NMM	66	136	82	35
BMI	8	72	47	39
MCH	1	3	9	15
OMF	2	149	262	401

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	23.2	-33.9	-21.8
TXT	966.7	178.1	-1.1
CLT	104.8	90.7	6.7
LTR	173.1	18.3	-9.5
WDF	-73.3	97.0	0.0
PLP	85.7	92.3	36.0
PAP	0.0	-50.0	100.0
CHP	20.0	-29.2	76.5
RBR	-46.2	585.7	-10.4
NMM	106.1	-39.7	-57.3
BMI	800.0	-34.7	-17.0
MCH	200.0	200.0	66.7
OMF	7350.0	75.8	53.1

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	397.8	536.5	298.9	230.3
TXT	2.5	29.4	68.9	67.1
CLT	35.2	79.0	127.0	133.4
LTR	21.8	65.2	65.0	57.9
WDF	742.7	216.8	360.0	354.5
PLP	5.9	11.9	19.4	25.9
PAP	1.7	1.8	0.8	1.5
CHP	16.8	22.0	13.2	22.9
RBR	10.9	6.4	37.2	32.8
NMM	55.4	124.9	63.5	26.7
BMI	6.7	66.1	36.4	29.7
MCH	0.6	2.8	7.0	11.4
OMF	1.7	136.9	202.9	305.7

Tab. 3.1.9: Index of Revealed Comparative Advantage, Bangladesh

Sector	(1) Index ( $100 \times S_i / S$ )			
	1980	1981	1982	1983
FBT	165	206	260	242
TXT	1026	1001	707	885
CLT	1326	1382	1284	853
LTR	456	456	377	289
WDF	0	0	0	0
PLP	0	0	20	0
PAP	48	26	39	8
CHP	11	5	27	40
RBR	3	1	0	0
NMM	0	0	0	2
BMI	0	0	1	0
MCH	5	2	11	7
OMF	19	16	13	16

Sector	(2) Ratio to Previous Year (%)		
	1980-81	1981-82	1982-83
FBT	24.8	26.2	-6.9
TXT	-2.4	-29.4	25.2
CLT	4.2	-7.1	-33.6
LTR	0.0	-17.3	-23.3
WDF	0.0	0.0	0.0
PLP	0.0	0.0	-100.0
PAP	-45.8	50.0	-79.5
CHP	-54.5	440.0	48.1
RBR	-66.7	-100.0	0.0
NMM	0.0	0.0	0.0
BMI	0.0	0.0	-100.0
MCH	-60.0	450.0	-36.4
OMF	-15.8	-18.8	23.1

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1980	1981	1982	1983
FBT	70.1	86.5	123.4	134.3
TXT	436.0	420.5	335.6	491.2
CLT	563.5	580.5	609.4	473.5
LTR	193.8	191.5	178.9	160.4
WDF	0.0	0.0	0.0	0.0
PLP	0.0	0.0	9.5	0.0
PAP	20.4	10.9	18.5	4.4
CHP	4.7	2.1	12.8	22.2
RBR	1.3	0.4	0.0	0.0
NMM	0.0	0.0	0.0	1.1
BMI	0.0	0.0	0.5	0.0
MCH	2.1	0.8	5.2	3.9
OMF	8.1	6.7	6.2	8.9



Tab. 3.1.10: Index of Revealed Comparative Advantage, Pakistan

Sector	(1) Index ( $100 \times S_i / S$ )			
	1970	1975	1980	1983
FBT	125	419	379	229
TXT	947	461	392	943
CLT	789	751	821	787
LTR	69	102	130	273
WDF	0	1	1	3
PLP	0	0	0	0
PAP	4	2	5	10
CHP	19	10	59	23
RBR	12	8	8	35
NWN	63	222	2	5
BMI	0	0	0	19
MCH	9	3	7	5
OMF	2	36	7	69

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	235.2	-9.5	-39.6
TXT	-51.3	-15.0	140.6
CLT	-4.8	9.3	-4.1
LTR	47.8	27.5	110.0
WDF	0.0	0.0	200.0
PLP	0.0	0.0	0.0
PAP	-50.0	150.0	100.0
CHP	-47.4	490.0	-61.0
RBR	-33.3	0.0	337.5
NWN	252.4	-99.1	150.0
BMI	0.0	0.0	0.0
MCH	-66.7	133.3	-28.6
OMF	1700.0	-80.6	885.7

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	79.7	270.3	272.1	124.0
TXT	603.8	297.4	281.4	510.6
CLT	503.0	484.5	589.3	426.1
LTR	44.0	65.8	93.3	147.8
WDF	0.0	0.6	0.7	1.6
PLP	0.0	0.0	0.0	0.0
PAP	2.6	1.3	3.6	5.4
CHP	12.1	6.5	42.4	12.5
RBR	7.7	5.2	5.7	19.0
NWN	40.2	143.2	1.4	2.7
BMI	0.0	0.6	0.0	10.3
MCH	5.7	1.9	5.0	2.7
OMF	1.3	23.2	5.0	37.4

Tab. 3.1.11: Index of Revealed Comparative Advantage, India

Sector	(1) Index (100 x S <sub>i</sub> / S)		
	1970	1975	1980
FBT	310	560	387
TXT	472	196	168
CLT	538	387	400
LTR	30	79	205
WDF	3	5	10
PLP	8	0	2
PAP	9	6	4
CHP	35	24	42
RBR	51	36	52
NMM	57	66	25
BMI	67	33	21
MCH	12	13	24
OMF	93	102	195

Sector	(2) Ratio to Previous Year (%)	
	1970-75	1975-80
FBT	80.6	-30.9
TXT	-58.5	-14.3
CLT	-28.1	3.4
LTR	163.3	159.5
WDF	66.7	100.0
PLP	-100.0	0.0
PAP	-33.3	-33.3
CHP	-31.4	75.0
RBR	-29.4	44.4
NMM	15.8	-62.1
BMI	-50.7	-36.4
MCH	58.3	26.3
OMF	9.7	91.2

Sector	(3) Ratio to Average of Manufacturing Sectors (%)		
	1970	1975	1980
FBT	239.2	481.2	327.8
TXT	364.2	168.4	142.3
CLT	415.1	332.5	338.8
LTR	23.1	67.9	173.6
WDF	2.3	4.3	8.5
PLP	6.2	0.0	1.7
PAP	6.9	5.2	3.4
CHP	27.0	20.6	35.6
RBR	39.3	30.9	44.0
NMM	44.0	56.7	21.2
BMI	51.7	28.4	17.8
MCH	9.3	16.3	20.3
OMF	71.8	87.6	165.1

Tab. 3.1.12: Index of Revealed Comparative Advantage, Sri Lanka

Sector	(1) Index (100 x Si / S)			
	1970	1975	1980	1983
FBT	64.1	675	514	473
TXT	0	5	18	67
CLT	2	33	503	719
LTR	0	14	4	50
WDF	8	10	15	15
PLP	0	0	1	0
PAP	0	0	1	6
CHP	20	17	144	84
RBR	1590	1417	1251	1079
NMM	1	36	54	47
BMI	0	0	1	1
MCH	1	1	3	5
OMF	6	146	42	65

Sector	(2) Ratio to Previous Year (%)		
	1970-75	1975-80	1980-83
FBT	5.3	-23.9	-8.0
TXT	0.0	260.0	272.2
CLT	1550.0	1424.2	42.9
LTR	0.0	-71.4	1150.0
WDF	25.0	50.0	0.0
PLP	0.0	0.0	-100.0
PAP	0.0	0.0	500.0
CHP	-15.0	747.1	-41.7
RBR	-10.9	-11.7	-13.7
NMM	3500.0	50.0	-13.0
BMI	0.0	0.0	0.0
MCH	0.0	200.0	66.7
OMF	2333.3	-71.2	54.8

Sector	(3) Ratio to Average of Manufacturing Sectors (%)			
	1970	1975	1980	1983
FBT	367.3	372.8	261.9	235.5
TXT	0.0	2.8	9.2	33.4
CLT	1.1	18.2	256.3	358.0
LTR	0.0	7.7	2.0	24.9
WDF	4.6	5.5	7.6	7.5
PLP	0.0	0.0	0.5	0.0
PAP	0.0	0.0	0.5	3.0
CHP	11.5	9.4	73.4	41.8
RBR	911.0	782.5	637.5	537.2
NMM	0.6	19.9	27.5	23.4
BMI	0.0	0.0	0.5	0.5
MCH	0.6	0.6	1.5	2.5
OMF	3.4	80.6	21.4	32.4

## Annex 1. Regions Covered and Sector Classification for Revealed Comparative Advantage

1.1 Observatoion periods: 1970, 1975, and 1980 to 1983

1.2 Region covered

1.2.1 Reporting countries

(1) Asian NICs	
Singapore	(127680) (*1)
Koread	(117840)
Hong Kong	(117840)
Taiwan	(117960)
(2) ASEAN four countries	
Indonesia	(128080)
Thailand	(121800)
Malaysia	(127650)
Philippines	(128160)
(3) Other Selected Asian countries	
Bangladesh	(137642)
Pakistan	(137640)
India	(137580)
Sri Lanka	(137560)
(4) Japan	(117310)
(5) USA	(392410)
(6) EC	
(7) Australia and New Zieland	
Australia	(615640)
New Zieland	(615660)
(8) Rest of the World (*2)	
(9) World total	

(\*1) Country code used in IDE foreign trade database, (AID-XT)

(\*2) Rest of the world is defined as the world total minus sum of (1)

to (7)

1.3. Sector Classification

(1) Agriculture	(001 to 011)
(2) Mining	(012 to 016)
(3) Food and beverage	(017 to 022)
(4) Textile	(023 to 025)

- (5) Wearing apparel (026 to 027)
- (6) Leather products (028)
- (7) Wood and Furniture (029 to 030)
- (8) Pulp and paper (031)
- (9) Paper and printing (032)
- (10) Chemicals and petroleum products  
(033 to 036)
- (11) Rubber products (037 to 038)
- (12) Non-metallic products (039 to 041)
- (13) Basic metals (042 to 043)
- (14) Metal products and machinery  
(044 to 048)
- (15) Other manufactures (049 to 050)
- (16) Utilities (051)
- (17) Construction (052)
- (18) Services (053 to 056)

16061 - (2)

UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

CONFIDENTIAL

INTERNATIONAL COMPARISON OF INDUSTRIAL STRUCTURE  
AND  
INDUSTRIAL DEVELOPMENT IN ASIAN SELECTED COUNTRIES

VOLUME II  
STATISTICAL REPORT

THAILAND  
BANGLADESH  
SRI LANKA  
PAKISTAN

Project No: US/RAS/83/261

July 1986

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This report has not been cleared with the United Nations Industrial Development Organization which does not, therefore, necessarily share the views presented.

PART I

THAILAND

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Converter between ISIC and TSIC (Thailand Standard Industrial Classification)
- IV. Commodity Balance Sheets

I.        **Explanatory Notes on Manufacturing Statistics**



## Thailand

### Industrial Census

Reference Period: Calender Year.

Survey Year : 1967 - 1971, 1974 - 1977, 1979, 1982.

Office in Charge: National Statistical Office.

Title of the Report : Report of Industrial Census;

Whole Kingdom.

Bangkok Metropolis, Nonthaburi, Pathum  
Thani and Samut Prakan.

Coverage: The 1970 and 1971 census covered all establishments engaged with ten or more persons at work. The censuses carried out after 1974 covered all industrial establishments with 20 or more persons engaged completely enumerated while those with 10-19 person engaged were enumerated on a sample basis.

Items: The census enumerated as follows; Form of Ownership, Form of Economic Organization, Persons Engaged in Industrial Establishments, Wages and Salaries, Power Equipment Installed, Contract Work and Services, Value of Goods Purchased for Resale, Other Operating Expenses, Receipt of Industrial establishments, Value of Fixed Assets, Depreciation, Inventory.

Classification: 1970 and 1971 census followed International Standard Industrial Classification (ISIC). From 1974 onwards Thailand Standard Industrial Classification (TSIC) has been in use. The ISIC and TSIC differ in some respects.

Methodology and Procedures: The census was conducted by direct mail. A questionnaire was sent to each establishment and returned to National Statistical Office within 15 days from the date of receipt. A follow-up letter was sent to the delayed respondent. After the second attempt if no response enumerator was sent to the establishment to conduct an interview.

Method of Estimation: The estimation for the whole kingdom was divided into 2 parts as follows:

1. Census part, covering the industrial establishment with 20 or more persons engaged.
2. Sample Survey part, covering the industrial establishment with 10-19 persons engaged.

The estimations were divided into two parts according to the two methods used in data collection namely Census and Sample Survey. Within Census part of the large industrial establishment, some adjustment were made for non-response cases. Though the number of workers of any industrial establishment after the enumeration stage has changed, the estimation still belongs to the part in which it was classified at the sampling stage.

The estimation of the total of any characteristics under study for both large industrial establishments (with 20 or more persons engaged) and small industrial establishments (with 10-19 persons engaged) for the whole kingdom is as follows.

$$\hat{X}_h = \sum_{i=1}^2 \sum_{j=1}^L w_{hij} \sum_{k=1}^{n_{hij}} X_{hijk}$$

where

$X_{hijk}$  = characteristic under study of the  $k^{\text{th}}$  industrial establishment in the  $j^{\text{th}}$  industrial type, in the  $i^{\text{th}}$  area, in the  $h^{\text{th}}$  size.

$k$  = 1, 2, 3, .....  $n_{hij}$

$j$  = 1, 2, 3, .....  $L$

$L$  = Number of industrial activities

$h$  = 1 for the large industrial establishment  
2 for the small industrial establishment

$n_{hij}$  = Number of enumerated industrial establishments in the  $j^{\text{th}}$  industrial type, in the  $i^{\text{th}}$  area in the  $h^{\text{th}}$  size.

$w_{hij}$  = no. of industrial establishments in the  
 jth industrial type in the  $i^{\text{th}}$  area in

the hth size

---

$n_{hij}$

The estimated total of x for large industrial establish-  
 ments was

$$\hat{X}_1 = \sum_{i=1}^2 \sum_{j=1}^L w_{1ij} \sum_{k=1}^{n_{1ij}} x_{1ijk}$$

and the estimated total of x for small industrial  
 establishments was

$$\hat{X}_2 = \sum_{i=1}^2 \sum_{j=1}^L w_{2ij} \sum_{k=1}^{n_{2ij}} x_{2ijk}$$

Since the data were obtained by both census and sampling  
 survey methods, the users should be aware of the so-called  
 sampling error together with the non-sampling errors and use  
 the data with appropriate carefulness.

**Response Rate:**  
(according to cutoff point)

Year	10-19 persons engaged (Sample survey)			more than 20 persons engaged (Whole survey)		
	Response no.	Response rate	All Establish- ment	Response no.	Response rate	All Establish- ment
1982						
1979	2859			5249		
1977	2307	41%	5636	4190	75%	5578
1976	880			3227		
1975	1698	55%	3081	3213	88%	3665
1974	1034			3034		
Year	more than 10 persons engaged (Whole survey)					
	Response no.	Response rate	All Establish- ment			
1971						
1970	1365	27.69%				

Note: If number of establishments in a reference year is unspecified the column is blank.

Definition of Terms:

1) Industrial Establishment

An industrial establishment is a place used for manufacturing, producing, assembling or repairing activities under the control of a persons as entrepreneurs at a single location. If two or more kinds of manufacturing activities are under the control of one entrepreneur at the same location each activity will be treated as a separate establishment if their accounting records are kept separately for each activity.

2) Persons Engaged in Industrial Establishments

Persons Engaged in Industrial Establishments refer to persons, both paid and unpaid, in the list of the payroll at the end of the pay period. It also included persons who normally worked in the establishment but were absent during the referenced period due to illness or on leave with pay. Persons, who were on leave for military or police services, or who obtained long leaves of absence were excluded. Persons engaged in the establishment are classified as follows:

i) Working Proprietor

Working proprietor is a business owner or partner who runs the business without receiving wages or salaries.

ii) Unpaid Family Workers

Unpaid family workers refer to members of the household who work in the business of the head of the household or of other member of the household for at least 20 hours a week and do not receive either regular pay or any monetary benefit for the work done. The owner or entrepreneur may provide them food, clothes maintenance or other forms of support. Apprentices are also included in this category if they receive neither wages nor salaries.

iii) Employees

Employees are persons who work for a regular wage or salary, which may be paid either in cash or in kind.

3) Receipts of Industrial Establishment

Receipts of Industrial Establishments refer to value of sale of all goods produced, value of goods purchased and resold, value of electricity sold, and other receipts (both in cash and on credit) during the reference period.

#### 4) Value of Gross Output

Value of gross output is the receipts of industrial establishment, plus value of goods in process and finished goods in stock at the end of reference period.

#### 5) Wages and Salaries

Wages and salaries include bonuses, piece-work payment, brokerage and commission, overtime payment, cost-of-living, allowances, amount paid during the period of vacation and sick leave including other payments paid to the employees under certain obligations such as pension payment, family aid allowances, and the establishment contribution to pension funds. Wages and salaries paid to employees during the time they are on leave for military or police service are not included.

#### 6) Total Cost of Production

Total cost of production is the amount paid by the establishment for producing goods including cost of goods purchased for resale in the reference period. It includes cost of fuel purchased, cost of electricity purchased, cost of raw materials and components and cost of contract or repair work done by others.

#### 7) Cost of Raw Materials and Components

It refers to all payments paid for raw materials and components used in production (i.e., containers used in packing, component parts and accessories, and others) during the reference period.

#### 8) Other Operating Expenses

Other Operating Expenses refer to other expenses paid for operating the business except wages and salaries, cost of raw materials amount paid for contract work and for goods purchased for resale. It includes amount paid for rent, water supply, postage, stationery, advertising, insurance, premiums, taxes, transportation, etc.

#### 9) Value of Goods Purchased for Resale

These generally are value of goods purchased and sold in the same condition.

## 10) Charges for Contract Work and Services Rendered

Charges for Contract Work and Services Rendered refer to the amount of money charged to customers for the work done by order or for services rendered. Generally, the customers supply the raw materials. When such work or services are done for others, the amount of money received is considered as part of establishment's receipts. On the contrary, the amount paid to other establishments for their work done or services rendered is considered as the establishment's expenses.

## 11) Value Added

The value added was computed as follows:

### Adding

1. The sum of receipts from sales of goods produced, from services rendered, and from goods sold in the same condition as purchased.
2. Sales of electricity produced by the establishment.
3. Changes in inventory of goods and materials in 1979.

### Subtracting

1. Cost of fuel purchased.
2. Cost of electricity purchased.
3. Cost of raw materials and components.
4. Cost of contract or repair work done by others, including cost of goods purchased for resale.

## 12) Value of Fixed Assets

The value of fixed assets is the value of assets used for operating the business. It includes the value of both tangible and intangible assets, such as land, buildings, machinery, tools, vehicles, patent, etc. with a productive life of one year or more.,

## 13) Book Value

Book value of assets means the net value after the deduction of the accumulated depreciation at the end of the reference period.

#### 14) Depreciation

Depreciation is a decreasing value of assets through normal wear and tear. It is an allowance made for this in the establishment's account.

#### 15) Inventory

Inventory includes all goods produced by the establishment, goods purchased for resale goods in process, raw materials and components used for production, which remain in stock at the end of the previous period and the reference period.

#### 16) Power Equipment Installed

Power Equipment Installed refers to the prime movers and electric motors. Prime movers are steam engines, internal combustion engines, water wheels, steam turbines, electric motors and electric generators.



II. General Industrial Statistics

1. Explanatory Notes

2. Statistical Tables

2.1 Number of Establishments

2.2 Employment (Average Number of Persons Engaged)

2.3 Employment (Average Number of Employees)

2.4 Gross Output

2.5 Wages and Salaries

2.6 Value Added

2.7 Gross Fixed Capital Formation

2.8 Index Numbers of Industrial Production (1975=100)

## Explanatory Notes

### I. Classification:

The classification of industrial activity set out in the tables follows the three-digit code of the present version of ISIC. The data used NA (national source) according to TSIC (Thailand Standard Industrial Classification) are converted to ISIC based on the Converter (III).

### II. Sources of Data:

The statistical data presented in the following tables derived from three kinds of data sources, UN, UNIDO and NA. The abbreviation of data sources are as follows.

UN-----UN, Yearbook of Industrial Statistics, Vol. I, General Industrial Statistics.

UNIDO--UNIDO, General Industrial Data Base.

NA1----National Statistical Office, Report on Industrial Census

NA2----IDE estimates based on value added in the National Accounts Statistics and Input-output Tables for 1975 and 1980, Thailand.

### III. Reference Period:

The reference period is the calendar year from 1 January to 31 December.

### IV. Concepts and Definitions:

For description of concepts and definitions used in the data sources cited above, please refer to Explanatory Notes on Manufacturing Statistics (I).

### V. Notes:

"\*" means figures incomplete due to suppression of Sub-group data.

COUNTRY: THAILAND

2.1 Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02	901	1483												
						1070	1197	1156	1798		2019				
313	Beverages	43	63												
						70	46	52	94		41				
314	Tobacco	114	252												
						16	223	19	52		92				
321	Textiles	257	550												
						506	547	439	689		882				
322	Wearing apparel	65	187												
						40	37	70	234		580				
323	Leather and products	29	44												
							12	22							
324	Footwear	14	33												
							8	8	13						
331	Wood products	332	608												
						446	483	473	879		909				

COUNTRY: THAILAND

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	35	103			120	44	64	88		152				
341	Paper and products	20	51			33	58	84	75		63				
342	Printing, publishing	138	278			168	322	121							
351	Industrial chemicals	14	43			130	100	130	77		236				
352	Other chemical products	119	225			202	241	260	287		382				
353	Petroleum refineries		2			8	5	5	4						
354	Petroleum, coal products		2				5	4			1				
355	Rubber products	95	145			69	96	109	124		198				

COUNTRY: THAILAND

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	8	23			56	93		58						
361	Pottery, china etc.	44	91				64	100	95		159				
362	Glass and products	11	31			34	31	35	39		7				
369	Non-metal products n.e.c.	152	362			161	198	169	359		340				
371	Iron and steel	17	45			47	98	104	183		285				
372	Non-ferrous metals	30	59			8		8	12						
381	Metal products	174	779			297	334	273	358		417				
382	Machinery n.e.c.	175	302			356	344	153	453		587				



COUNTRY: THAILAND

2.2 Employment(Average Number of Persons Engaged)

Unit:Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02	32.15	48.31			*64.7	*61.02	*79.33	*142.97		*129.93				
313	Beverages	7.43	8.43			60.30	77.02	38.14	*76.49		*27.71				
314	Tobacco	15.06	32.52			5.7	32.93	*8.82	34.81		1.6				
321	Textiles	40.59	64.71			171.62	*226.84	*161.01	125.79		341.16				
322	Wearing apparel	1.53	3.16			4.01	*4.93	10.10	14.03		26.41				
323	Leather and products	0.90	1.40				2.74	4.74							
324	Footwear	0.13	0.57				0.31	0.34	0.49						
331	Wood products	19.20	36.05			*33.23	35.59	32.12	53.52		55.43				

COUNTRY: THAILAND

## Employment(Average Number of Persons Engaged)

Unit:Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	0.98	2.53			4.28	2.28	3.31	5.44		8.62				
341	Paper and products	2.51	3.73			1.64	9.60	16.17	19.01		17.54				
342	Printing, publishing	6.70	3.19			19.42	16.76	14.37	15.37		23.90				
351	Industrial chemicals	1.12	3.19			14.80	*7.95	12.61	7.71		14.35				
352	Other chemical products	9.92	11.86			*18.01	*25.94	20.16	15.02		41.76				
353	Petroleum refineries		0.96			*3.89	2.27	1.89	1.24						
354	Petroleum, coal products		0.17				0.44	0.46							
355	Rubber products	10.64	9.01			6.55	11.06	12.74	17.16		23.70				



COUNTRY: THAILAND

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	0.16	0.68			1.04	3.90		2.68						
361	Pottery, china etc.	3.11	3.11				7.54	14.47	7.34		7.06				
362	Glass and products	3.57	5.39			12.51	9.39	8.83	10.28		49 0.04				
369	Non-metal products n.e.c.	9.70	17.02			16.02	17.99	28.14	32.25		60.31				
371	Iron and steel	2.99	6.12			1.38	1.67	2.78	25.36		29.67				
372	Non-ferrous metals	0.74	1.01			1.17		0.12	* 1.16						
381	Metal products	7.09	14.62			40.72	25.40	21.87	24.63		22.48				
382	Machinery n.e.c.	3.73	6.91			*8.67	*7.90	6.01	12.25		9.32				











COUNTRY: THAILAND

## 2.4 Gross Output (in Producers' Values)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	8690													
		UNIDO	8690	7270			23649	20239								
		NA01					* 23598	* 20112	* 5587	* 70624		* 69510				
	NA02	34827	36925	35176	46614	73671	87289	98460	105097	107626	122793	149140	181091	181174		
313	Beverages		2389													
			2389	7390			27416	2558								
							27416	9558	26676	* 51819		* 9700				
		4301	4217	4817	6068	8335	8335	10210	12435	15004	18057	21290	20886	26618		
314	Tobacco		3561													
			3561	2423			14	1045								
							14	1045	* 6838	38409		31				
		3891	4790	5150	5735	7228	8022	9443	11231	11744	13625	15487	19420	19820		
321	Textiles		3388													
			3388	5555			19685	25634								
							19646	* 25087	* 24047	29662		61621				
		9052	12286	18002	21563	27330	25074	28107	34299	40819	53159	64714	70941	70130		
322	Wearing apparel		37													
			37	58			285	416								
							285	* 412	1047	1512		3132				
		2380	3407	3709	5082	7221	8688	10607	12529	16942	25954	33524	41265	46586		
323	Leather and products		97													
			97	72			371	357								
								357								
		372	525	594	717	845	1012	755	733	1091	1084	1317	1497	1765		
324	Footwear		3													
			3	6			14	13								
							13		16							
331	Wood products		1188													
			1188	1568			3420	3943								
							* 3417	3943	1316	9065		12832				
		2457	2636	3002	3936	6237	5895	6856	7321	8106	8856	10629	11499	9600		

COUNTRY: THAILAND

Gross Output (in Producers' Values)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	114													
		114	149				592	315							
		1525	1420	1456	1797	2497	2715	2884	3802	4127	5534	6146	7497	7746	
341	Paper and products	278													
		278	622				725	1825							
		1890	2286	2667	2523	5158	4193	5580	8104	11029	15317	20127	22916	13837	
342	Printing, publishing	510													
		510	879				2625	1828							
		778	876	1015	1351	2057	2129	2229	2222	2652	3164	3776	4810	5105	
351	Industrial chemicals	121													
		121	220				5002	17078							
		1713	1817	1982	2200	2679	3315	3800	4909	5822	7778	10395	12450	13738	
352	Other chemical products	2841													
		2841	2393				3880	7243							
		3422	3627	3977	4574	5347	6618	7583	9860	11620	14229	17967	22770	25124	
353	Petroleum refineries	2735	13435												
		5322	7007	7883	9734	13852	16222	17327	19971	24691	39467	49744	30035	54106	
354	Petroleum, coal products	11	78												
		201	265	298	368	525	614	655	757	935	1330	1676	2024	1823	
355	Rubber products	1696													
		1696	1844				2265	2333							
		1895	2538	2880	3398	5208	6016	7947	10238	11714	17934	19674	20054	19074	



COUNTRY: THAILAND

Gross Output (in Producers' Values)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	12 12	41			403 403	896 896		308						
361	Pottery, china etc.	37 37	108			374	316 316	714	642		350				
		215	226	239	290	359	420	515	709	878	1064	1295	1512	1708	
362	Glass and products	358 358	251			2220 2220	1776 1776	2055	2501		8				
		730	765	810	1005	1216	1424	1748	2402	2975	3528	4297	5011	5661	
369	Non-metal products n.e.c.	1600 1600	2111			2314 2314	3690 3690	12863	17878		53187				
		1966	2064	2184	2709	3278	3838	4713	6976	8018	10726	13068	15232	17209	
371	Iron and steel	884 884	767			107 107	219 219	212	8867		24770				
		1857	2194	2917	5053	7886	6496	8300	10615	13415	21426	23394	20750	17959	
372	Non-ferrous metals	124 124	393			371 371	274	50	*1033						
		1186	1405	1866	3230	5043	4152	5300	6783	8573	17024	18591	16491	14273	
381	Metal products	1748 1748	2586			14746 14746	6618 6618	8582	4483		7472				
		2541	3011	3644	5483	5520	4212	5013	6479	10046	10388	12958	12782	12851	
382	Machinery n.e.c.	626 626	1276			1906 *1900	2130 *2114	1357	2412		1257				
		2641	3018	3446	4346	5285	4840	6272	6777	7219	8715	9954	11963	14331	



COUNTRY: THAILAND

## 2.5 Wages and Salaries (of Employees)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02	265				*954	*867	*6953	*2317		*2483				
313	Beverages	117				2196	6136	1720	*3555		*435				
314	Tobacco	168				2	170	*547	2116		5				
321	Textiles	262				2077	*2888	*2674	1971		5853				
322	Wearing apparel	4				28	*67	110	193		397				
323	Leather and products	7					67	78							
324	Footwear						2	3	5						
33'	Food products	111				*373	440	381	644		1093				

COUNTRY: THAILAND

Wages and Salaries (of Employees)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	11				33	28	58	62		132				
341	Paper and products	28				34	173	304	508		530				
342	Printing, publishing	70				338	318	303	382		544				
351	Industrial chemicals	7				278	*220	247	157		271				
352	Other chemical products	132				*327	*488	425	334		1564				
353	Petroleum refineries					308	241	241	242						
354	Petroleum, coal products						10	11							
355	Rubber products	85				128	128	324	284		660				

COUNTRY: THAILAND

## Wages and Salaries (of Employees)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	1				13	45		29						
361	Pottery, china etc.	9					58	112	98		78				
362	Glass and products	52				345	209	228	258		1				
369	Non-metal products n.e.c.	156				347	452	1207	1393		3537				
371	Iron and steel	45				13	14	35	822		1484				
372	Non-ferrous metals	4				11		1	*31						
381	Metal products	50				1075	411	401	282		537				
382	Machinery n.e.c.	33				*110	*133	99	135		132				



COUNTRY: THAILAND

## 2.6 Value Added (Producers' value)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	-553													
		UNIDO	-553	1046			5874	5441								
		NA01					*5854	*5387	*6596	*22403		*16997				
		NA02	9184	9737	9276	12292	19427	23018	25064	27714	28381	29716	36092	45276	43844	
313	Beverages	524														
		524	3024			20319	6100									
		2109	2852	3258	4104	5637	5037	60623	*38900		*4632					
314	Tobacco	1825														
		1825	1445			7	450									
		1836	2260	2430	2706	3410	3785	4448	27393		14					
321	Textiles	917														
		917	2070			8919	9546									
		3017	4095	6000	7187	9109	8357	*9260	14613		26356					
322	Wearing apparel	17														
		17	20			73	151									
		811	1161	1264	1732	2461	2961	*149	233	420		980				
323	Leather and products	31														
		31	24			150	126									
		136	192	217	262	309	370	261	276	208	399	397	482	548	646	
324	Footwear	1														
		1	4			7	6									
								6	5	8						
331	Wood products	320														
		320	522			1525	1637									
		1020	1094	1246	1634	*1523	1585	1271	3248		4483					
						2589	2447	2846	3039	3365	4561	5474	5922	4944		

COUNTRY: THAILAND

Value Added (Producers' value)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	44													
		44	56			136	72								
		595	554	568	701	974	1059	1125	1483	1610	2092	2323	2834	2928	
341	Paper and products	-6													
		-6	161			232	531								
		711	861	1003	949	1940	1577	2102	3048	4148	5557	7302	8314	8648	
342	Printing, publishing	219													
		218	381			1035	704								
		302	340	394	524	798	826	865	862	1029	1374	1640	2089	2217	
351	Industrial chemicals	44													
		44	155			1967	2430								
		576	611	670	770	901	1115	1278	1851	1958	2622	3504	4197	4631	
352	Other chemical products	1653													
		1653	1200			1324	2580								
		1310	1379	1512	1739	*1295	*2577	1430	1454		5308				
353	Petroleum refineries														
		898	2452			6084	7177								
		1282	1688	1899	2345	3337	3908	4174	4811	5948	9113	11486	13862	12493	
354	Petroleum, coal products														
		5	53			34	29								
		79	104	117	145	206	241	257	297	367	562	708	855	770	
355	Rubber products	397													
		397	574			1027	729								
		721	966	1096	1293	1982	2289	3024	3896	4457	5815	6160	6279	5972	



COUNTRY: THAILAND

## Value Added (Producers' Value)

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	4	15			135	478								
		4				135	478		155			2214			
							1281								
361	Pottery, china etc.	-4	29			143	121								
		-4					120	434	347		187				
		113	119	128	156	188	221	271	373	462	560	682	796	899	
362	Glass and products	201													
		201	147			1023	1070								
						1023	1070	1102	1452		2				
		328	345	365	453	548	642	788	1083	1341	1627	1982	2311	2611	
369	Non-metal products n.e.c.	310													
		310	718			889	1279								
						889	1219	3501	6850		10272				
		719	755	799	991	1199	1404	1724	2369	2933	3559	4336	5054	5710	
371	Iron and steel	135													
		135	174			24	56								
						24	56	43	2651		7430				
		601	710	944	1635	2552	2102	2686	3435	4341	5858	6396	5673	4910	
372	Non-ferrous metals	96													
		96	160			95	70								
						95		8	*132						
		265	314	417	722	1127	928	1186	1516	1916	2586	2824	2505	2168	
381	Metal products	582													
		582	1157			5428	1569								
						5427	1568	2083	1506		2113				
		891	1056	1278	1923	1936	1477	1758	2278	3523	3775	4709	4645	4670	
382	Machinery n.e.c.	197													
		197	485			555	412								
						*552	*406	418	1130		477				
		889	1061	1160	1463	1778	1629	2111	2281	2430	2841	3245	3900	4672	



COUNTRY: THAILAND

2.7 Gross Fixed Capital Formation

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02							* 12440	* 64954						
313	Beverages							4259	3103						
314	Tobacco							*3702	* 20752						
321	Textiles							*7847	15135						
322	Wearing apparel							* 288	470						
323	Leather and products							3							
324	Footwear							3							
331	Wood products							14925	4657						

COUNTRY: THAILAND

Gross Fixed Capital Formation

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures							285	505						
341	Paper and products							2600	5119						
342	Printing, publishing							1088	1507						
351	Industrial chemicals							* 2212	-40						
352	Other chemical products							1890	1129						
353	Petroleum refineries							3750	3425						
354	Petroleum, coal products							54							
355	Rubber products							1405	3116						

COUNTRY: THAILAND

## Gross Fixed Capital Formation

Unit: Million Bahts

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.														
361	Pottery, china etc.							2555	-1333						
362	Glass and products							738	507						
369	Non-metal products n.e.c.							22121	2898						
371	Iron and steel							185	9584						
372	Non-ferrous metals								* 483						
381	Metal products							3131	811						
382	Machinery n.e.c.							* 259	1474						



COUNTRY: THAILAND

2.8 Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	88	89	81	97	88	100	98	91	115	104	105			
313	Beverages	47	58	63	78	87	100	110	134	138	199	157	134		
314	Tobacco	62	65	72	75	87	100	113	110	108	118	121	136		
321	Textiles	62	79	94	80	85	100	142	156	175	183	195			
322	Wearing apparel	65	89	92	92	144	100	98	111	98					
323	Leather and products	44	82	74	89	89	100	177	156	343					
324	Footwear	44	82	74	89	89	100	177	156	343					
331	Wood products	85	95	100	107	138	100	91	94	92	126	124	111		

COUNTRY: THAILAND

Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	62	79	90	83	95	100	79	87	77					
341	Paper and products	57	87	79	88	88	100	100	103	104	105	106			
342	Pulp, paper etc.	86	91	85	105	117	100	153	161	131					
351	Industrial chemicals	32	51	74	88	85	100	127	156	158	171	173	172		
352	Other chemical products	61	72	82	90	86	100	102	132	116	139	125			
353	Petroleum refineries	66	74	97	108	95	100	111	127	120	120	110	117		
354	Petroleum, coal products	66	74	97	108	95	100	111	127	120	120	110	117		
355	Rubber products	72	83	82	106	108	100	108	123	127	155	142	300		



COUNTRY: THAILAND

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	78	122	141	134	94	100	141	239	271					
361	Pottery, china etc.		81	89	103	95	100	108	120	108					
362	Glass and products	81	63	94	104	104	100	114	152	159	189				
369	Non-metal products n.e.c.	66	70	85	93	99	100	111	128	128	132	135	158		
371	Iron and steel	48	79	88	98	104	100	119	140	146	186	174	200		
372	Non-ferrous metals	132	131	134	138	119	100	123	139	174	199	209	197		
381	Metal products	72	75	84	89	89	100	114	132	133					
382	Machinery n.e.c.	69	67	55	60	80	100	83	111	81					



III. Convertor between ISIC and TSIC (Thailand Standard  
Industrial Classification)

ISIC	TSIC	ISIC Sector	1
31	31	MANUFACTURE OF FOOD, BEVERAGES AND TOBACCO	
311A	311A	FOOD MANUFACTURING	
3111	3111	SLAUGHTERING, PREPARING AND PRESERVING MEAT	
3112	3112	MANUFACTURE OF DAIRY PRODUCTS	
3113	3113	CANNING AND PRESERVING OF FRUITS AND VEGETABLES	
3114	3114	CANNING, PRESERVING AND PROCESSING OF FISH AND SIMILAR	
3115	3115	MANUFACTURE OF VEGETABLE AND ANIMAL OILS AND FATS	
3116	3116	GRAIN MILL PRODUCTS	
3117	3117	MANUFACTURE OF BAKERY PRODUCTS	
3118	3118	SUGAR FACTORIES AND REFINERIES	
3119	3119	MANUFACTURE OF COCOA, CHOCOLATE AND SUGAR CONFECTIONERY	
3121	3121	MANUFACTURE OF FOOD PRODUCTS NOT ELSEWHERE CLASSIFIED	
3122	3122	MANUFACTURE OF PREPARED ANIMAL FEEDS	
313	313	BEVERAGE INDUSTRIES	
3131	3131	DISTILLING, RECTIFYING AND BLENDING SPIRITS	
3132	3132	WINE INDUSTRIES	
3133	3133	MALT LIQUORS AND MALT	
3134	3134	SOFT DRINKS AND CARBONATED WATERS INDUSTRIES	
314	314	TOBACCO MANUFACTURE	
3140*	3141*	TOBACCO DRYING	
3140*	3142*	MANUFACTURE OF TOBACCO PRODUCTS	
32	32	TEXTILE, WEARING APPAREL AND LEATHER INDUSTRIES	
321	321	MANUFACTURE OF TEXTILES	
3211	3211	SPINNING, WEAVING AND FINISHING TEXTILES	
3212	3212	MANUFACTURE OF MADE-UP TEXTILES GOODS EXCEPT WEARING APPAREL	
3213	3213	KNITTING MILLS	
3214	3214	MANUFACTURE OF CARPETS AND RUGS	
3215	3215	CORDAGE, ROPE AND TWINE INDUSTRIES	
3219	3219	MANUFACTURE OF TEXTILE NOT ELSEWHERE CLASSIFIED	
322	322	MANUFACTURE OF WEARING APPAREL, EXCEPT FOOTWEAR	
3220	3220	MANUFACTURE OF WEARING APPAREL, EXCEPT FOOTWEAR	
323	323	MNF. OF LEATHER & PRODUCTS OF LEATHER, LEATHER SUBSTITUTE & FUR	
3231*	3231	TANNERIES, LEATHER FINISHING, FUR DRESSING (INCL. 3232)	
3232*			
3233	3233	MNF. OF PRODUCTS OF LEATHER & LEATHER SUBSTITUTE	
324	324	MNF. OF FOOTWEAR, EXCEPT VULCANIZED, MOULDED RUBBER, PLASTIC	
3240	3240	MNF. OF FOOTWEAR, EXCEPT VULCANIZED, MOULDED RUBBER, PLASTIC	
33	33	MANUFACTURE OF WOOD AND WOOD PRODUCTS, INCLUDING FURNITURE	
331	331	MANUFACTURE OF WOOD & WOOD & COKE PRODUCTS, EXCEPT FURNITURE	
3311	3311	SAWMILLS, PLANING AND OTHER WOOD MILLS	
3312	3312	MANUFACTURE OF WOODEN & CANE CONTAINERS & SMALL CANE WARE	
3319	3319	MNF. OF FURNITURE & FIXTURE, EXCEPT PRIMARILY OF METAL	
332	332	MNF. OF FURNITURE & FIXTURES, EXCEPT PRIMARILY OF METAL	
3320	3320	MNF. OF FURNITURE & FIXTURES, EXCEPT PRIMARILY OF METAL	
34		MANUFACTURE OF PAPER & PAPER PRODUCTS; PRINTING & PUBLISHING	
341	341	MANUFACTURE OF PAPER AND PAPER PRODUCTS	
3411	3411	MANUFACTURE OF PULP, PAPER AND PAPERBOARD	
3412	3412	MANUFACTURE OF CONTAINERS AND BOXES OF PAPER AND PAPERBOARD	
3419	3419	MANUFACTURE OF PULP, PAPER & PAPERBOARD ARTICLES NEC	
342	342	PRINTING, PUBLISHING AND ALLIED INDUSTRIES	
3420	3420	PRINTING, PUBLISHING AND ALLIED INDUSTRIES	
35	35	MNF. OF CHEMICAL, & OF CHEMICALS, PETROLEUM, COAL, RUBBER PRODUCT	
351	351	MANUFACTURE OF INDUSTRIAL CHEMICALS	
3511	3511	MANUFACTURE OF BASIC INDUSTRIAL CHEMICALS EXCEPT FERTILIZERS	
3512	3512	MANUFACTURE OF FERTILIZERS AND PESTICIDES	

ISIC	TSIC	TSIC Sector	2
3513	3513	MNF. OF SYNTHETIC RESINS, PLASTIC MATERIALS & MAN-MADE FIBRE	
352	352	MANUFACTURE OF OTHER CHEMICAL PRODUCTS	
3521	3521	MANUFACTURE OF PAINTS, VARNISHES AND LACQUES	
3522	3522	MANUFACTURE OF DRUGS AND MEDICINES	
3523	3523	MNF. OF SOAP & CLEANING PREPARATIONS, & OTHER TOILET PREPS.	
3529	3529	MANUFACTURE OF CHEMICAL PRODUCTS NOT ELSEWHERE CLASSIFIED	
353	353	PETROLEUM REFINERIES	
3530	3530	PETROLEUM REFINERIES	
354	354	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL	
3540	3540	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL	
355	355	MANUFACTURE OF RUBBER PRODUCTS	
3551	3551	TYRE AND TUBE INDUSTRIES	
3559	3559	MANUFACTURE OF RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED	
356	356	MANUFACTURE OF PLASTIC PRODUCTS NOT ELSEWHERE CLASSIFIED	
3560	3560	MANUFACTURE OF PLASTIC PRODUCTS NOT ELSEWHERE CLASSIFIED	
36	36	MNF. OF NON-METALIC MINERAL PRODUCTS, EXCEPT PRODUCTS OF COAL	
361	361	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE	
3610	3610	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE	
362	362	MANUFACTURE OF GLASS AND GLASS PRODUCTS	
3620	3620	MANUFACTURE OF GLASS AND GLASS PRODUCTS	
369	369	MANUFACTURE OF OTHER NON-METALIC MINERAL PRODUCTS	
3691	3691	MANUFACTURE OF STRUCTURAL CLAY PRODUCTS	
3692	3692	MANUFACTURE OF CEMENT, LIME AND PLASTER	
3699	3699	MANUFACTURE OF NON-METALIC MINERAL PRODUCTS NES	
37	37	BASIC METAL INDUSTRIES	
371	371	IRON AND STEEL BASIC INDUSTRIES	
3710*	3711*	IRON AND STEEL WORKS AND ROLLING MILLS	
3710*	3712*	IRON AND STEEL FURNACES	
372	372	NON-FERROUS METAL BASIC INDUSTRIES	
3720	3720	NON-FERROUS METAL BASIC INDUSTRIES	
38	38	MNF. OF FABRICATED METAL PRODUCTS, MACHINERY & EQUIPMENT	
381	381	MNF. OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY & EQUIPMENT	
3811	3811	MANUFACTURE OF CUTLERY, HAND TOOLS AND GENERAL HARDWARE	
3812	3812	MANUFACTURE OF FURNITURE AND FIXTURES PRIMARILY OF METAL	
3813	3813	MANUFACTURE OF STRUCTURAL METAL PRODUCTS	
3819	3819	MNF. OF FABRICATED METAL PROD. EXCEPT MACHINERY & EQUIP. NEC	
382	382	MANUFACTURE OF MACHINERY EXCEPT ELECTRICAL	
3821	3821	MANUFACTURE OF ENGINES AND TURBINES	
3822	3822	MANUFACTURE OF AGRICULTURAL MACHINERY AND EQUIPMENT	
3823	3823	MANUFACTURE OF METAL AND WOOD WORKING MACHINERY	
3824	3824	MNF. OF SPECIAL INDUSTRIAL MACHINERY & EQUIP. EXCEPT METAL	
3825	3825	MANUFACTURE OF OFFICE, COMPUTING AND ACCOUNTING MACHINERY	
3829	3829	MACHINERY AND EQUIPMENT EXCEPT ELECTRICAL NEC	
383	383	MNF. OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES & SUPPLIES	
3831	3831	MANUFACTURE OF ELECTRICAL INDUSTRIAL MACHINERY & APPARATUS	
3832	3832	MNF. OF RADIO, TELEVISION & COMMUNICATION EQUIP. & APPARATUS	
3833	3833	MANUFACTURE OF ELECTRICAL APPLIANCES AND HOUSEHOLDWARES	
3839	3839	MANUFACTURE OF ELECTRICAL APPARATUS AND SUPPLIES NEC	
384	384	SHIP BUILDING AND REPAIRING	
3841	3841	SHIP BUILDING AND REPAIRING	
3842	3842	MANUFACTURE OF RAILROAD EQUIPMENT	
3843	3843	MANUFACTURE OF MOTOR VEHICLES	
3844	3844	MANUFACTURE OF MOTORCYCLES AND BICYCLES	
3845	3845	MANUFACTURE OF AIRCRAFT	
3845	3845	MANUFACTURE OF TRANSPORT EQUIPMENT NEC	

ISIC	TSIC	ISIC Sector
385	385	M. OF PROFESSIONAL AND SCIENTIFIC, AND MEASURING
3851*	3850	M. OF PROFESSIONAL AND SCIENTIFIC, AND MEASURING
3852*	3850	M. OF PHOTOGRAPHIC AND OPTICAL GOODS
3853		MANUFACTURE OF WATCHES AND CLOCKS
39	39	OTHER MANUFACTURING INDUSTRIES
390	390	MANUFACTURE OF JEWELLERY AND RELATED ARTICLES
3901	3901	MANUFACTURE OF JEWELLERY AND RELATED ARTICLES
3902	3902	MANUFACTURE OF MUSICAL INSTRUMENTS
3903	3903	MANUFACTURE OF SPORTING AND ATHLETIC GOODS
3909	3909	MANUFACTURING INDUSTRIES NOT ELSEWHERE CLASSIFIED

IV. Commodity Balance Sheet

1. Explanatory Notes

2. Statistical Tables

- |                                |  |
|--------------------------------|--|
| 1. Condensed Milk              | 21. Kerosene                             |
| 2. Canning Pinapple            | 22. Diesel Oil                           |
| 3. Beer                        | 23. Liquified Petroleum Gas              |
| 4. Cigarettes                  | 24. Tires for Tractors                   |
| 5. Cotton Yarn, Pure and Mixed | 25. Glass, Drawn or Blown, in Rectangles |
| 6. Man-made Yarn               | 26. Tiles, Floor and Wall                |
| 7. Cotton Woven Fabrics        | 27. Cement                               |
| 8. Man-Made Fabrics            | 28. Pig Iron                             |
| 9. Garment                     | 29. Galvanized Steel Plate               |
| 10. Veneer Panels              | 30. Air Conditioners                     |
| 11. Plywood                    | 31. Television Receiving Sets (Color)    |
| 12. Wood Pulp                  | 32. Radio Receivers                      |
| 13. Printing and Writing Paper | 33. Storage Batteries                    |
| 14. Sulphuric Acid             | 34. Refrigerators (for household use)    |
| 15. Hydrochloric Acid          | 35. Incandescent Lamps                   |
| 16. Caustic Sauda              | 36. Passenger Motor Cars                 |
| 17. Nylon Filament             | 37. Motor Cycles and Scooters            |
| 18. Soap                       |  |
| 19. Jet Fuel                   |  |
| 20. Gasoline                   |  |

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).



QUANTITY UNIT CODEAppendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL *	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG *	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL *	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS *	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX *	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN *	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT *	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS				
FLN	FLASKS	SMM	SQUARE METRES		
FTN	FEET	SMN	SQUARE METRES		
GIN	IMPERIAL GALLONS	SPM	NUMBER OF SPINDLES		
GPN	PROOF GALLONS				
GRN	GROSS	STN	SHORT TONS		

Note: The codes put on "\*" are prepared by IDE.

CUURENCY UNIT CODE

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUB
M\$	RINGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHLIPPINES
S\$	SD	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Source

Source No.

1. UN, Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics.
2. UN, Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics.
3. ESCAP, Statistical Yearbook.
4. AIDXT(International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base
7. UNIDO, Production Index Data Base.
8. UN, Yearbook of International Trade Statistics.
9. UN, Statistical Yearbook.
- 10.
11. Ministry of Industry, Industrial Statistics.
12. Bank of Thailand, Pawa Utsahakham.
13. Board of Investment, Annual Activity Report.
14. Bank of Thailand, Quarterly Bulletin.
15. Customs Department, Foreign Trade Statistics of Thailand.
16. Japanese Chamber of Commerce, Statistical Data.
17. The Thai Textile Manufacturing Association, Statistical Data.
18. Book Club Finance Securities, Textile Industry in Thailand.
19. National Energy Administration, Oil in Thailand.
20. Suehiro Akira, Electrical & Electronics Industries in Thailand.

Country: Thailand

1. Commodity: Condensed Milk

ISIC Code	311201								Note:
NSIC Code	3112201								
SITC Code									
NSTC Code	A-0220101				B-040210				
	Quantity				Value				
Source	11.12		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		TN	TN			1000BH	1000BH	
1965	-		0.04	35866			0.3	280876	
1966	-		133	26728			996	204490	
1967	32744		267	18935			1998	146374	
1968	43802		140	5127			934	23132	
1969	55368		69	12437			468	99807	
1970	67845		194	8080			1188	74857	
1971	86458		889	1503			5771	14133	
1972	8457		2584	36			22310	484	
1973	92232		2082	228			18764	3212	
1974	74862		1756	14			18329	286	
1975	78861		809	14			11377	334	
1976	86545		1779	14			23494	320	
1977	88556		5330	19			40028	454	
1978	88459		8368	14			93126	421	
1979	95843		8822	4			117138	154	
1980	88148		8087	-			118170	-	
1981	88560		5344	-			110858	-	
1982	75735		7238	-			151660	-	
1983	82073		6125	-			121293	-	

Country: Thailand

2. Commodity: Canning Pineapple

ISIC Code	311318*								Note:
NSIC Code	3113101								
SITC Code									
NSTC Code	200111								
	Quantity				Value				
Source	11		12	12			12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000BH	1000BH	
1965	-		-	-			-	-	
1966	-		-	-			-	-	
1967	-		1452	-			5829	-	
1968	-		7746	-			28849	-	
1969	-		9497	-			36488	-	
1970	-		13640	-			55349	-	
1971	-		10469	-			44009	-	
1972	-		12362	-			65793	-	
1973	-		14009	-			75116	-	
1974	35136		29447	-			275800	-	
1975	48800		-	-			345860	-	
1976	72000		61445	-			604626	-	
1977	104000		88092	-			898196	-	
1978	144000		113859	-			1201399	-	
1979	96000		117305	-			1243630	-	
1980	128000		127008	-			1432242	-	
1981	169600		161534	-			2038277	-	
1982	150400		148631	-			1993297	-	
1983	-		-	-			-	-	

Country: Thailand

3. Commodity: Beer

ISIC Code	313304								Note:
NSIC Code	3133101								
SITC Code									
NSTC Code	A-1120300				B-220300				
Source	Quantity				Value				
Unit	14 Production 1000LN	Shipment	15 Export 1000LN	15 Import 1000LN	Production	Shipment	15 Export 1000BII	15 Import 1000BII	
1965	14373		504	453			3074	3611	
1966	25348		472	517			2362	3659	
1967	31398		470	332			2770	2560	
1968	35838		885	10257			3874	81283	
1969	39242		63	1029			290	6762	
1970	36331		209	525			1260	3996	
1971	32130		178	207			1137	1519	
1972	33869		517	343			3681	3016	
1973	43164		1250	235			9435	2115	
1974	44475		799	163			6916	1469	
1975	61324		601	91			5909	1120	
1976	74988		587	97			6127	1175	
1977	103011		592	73			5324	1007	
1978	108372		760	94			8733	1526	
1979	156206		1330	100			15649	1566	
1980	124097		1099	118			17987	1854	
1981	105417		724	202			13577	3362	
1982	121695		707	213			14851	4238	
1983	145629		841	262			18183	4921	

Country: Thailand

## 4. Commodity: Cigarettes

ISIC Code	314007								Note:
NSIC Code	3142103								
SITC Code									
NSTC Code	A-1220200				B-240220				
	Quantity				Value				
Source	11		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	KGM		KGM				1000BH		
1965	10057		-	23083			-	1897	
1966	11123		-	853936			-	58232	
1967	12393		3	21102			1	1799	
1968	13535		-	22932			-	2022	
1969	14419		-	20696			-	1599	
1970	15219		-	14718			-	1272	
1971	16081		-	8694			-	1087	
1972	16773		1694	9796			204	1089	
1973	10422		95336	26637			6288	4003	
1974	20217		38159	21486			3101	2585	
1975	22618		2091	25027			183	4147	
1976	24642		5	100834			1	16747	
1977	23477		101	8715			30	1299	
1978	23905		-	75211			-	20148	
1979	27161		145	182470			39	32713	
1980	30786		1097	241746			210	71407	
1981	32807		3746	198183			1849	64361	
1982	26919		69018	266876			13606	91001	
1983	29089		162976	221296			45650	76865	

Country: Thailand

5. Commodity: Cotton Yarn, Pure and Mixed

ISIC Code	321109								Note:
NSIC Code	3211901, 3211902								
SITC Code									
NSTC Code	5505, 5506								
	Quantity				Value				
Source	16		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		TN	TN			1000BH	1000BH	
1965	21712		7	5485			171	135252	
1966	23873		3	1816			91	46009	
1967	25987		3	1937			94	42975	
1968	36602		16	1070			345	28462	
1969	34430		35	1628			496	26278	
1970	49365		28	1819			229	65295	
1971	56788		141	2096			2111	73059	
1972	58280		224	825			6228	52680	
1973	67008		1227	1214			39079	37132	
1974	66902		174	253			16369	22678	
1975	70502		-	287			-	12895	
1976	73003		881	116			55052	10568	
1977	94270		2871	58			160617	8568	
1978	83312		2550	41			173174	4171	
1979	96430		787	306			83555	23093	
1980	96151		772	448			72957	29752	
1981	97271		506	902			106216	64699	
1982	101213		1814	280			133337	32998	
1983	-		1336	736			119094	60858	



Country: Thailand

6. Commodity: Man-made Yarn

ISIC Code	321119								Note:
NSIC Code	3211908								
SITC Code									
NSTC Code	5101, 5103, 5605, 5608								
	Quantity				Value				
Source	16		18	18			18	18	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000BH	1000BH	
1965	-		-	3247			-	65882	
1966	966		-	5662			-	106506	
1967	1085		-	5685			-	131025	
1968	1123		2	5515			72	137227	
1969	2750		31	7254			517	234056	
1970	7481		272	8110			5466	289065	
1971	22739		1066	6291			21350	233729	
1972	34652		3902	10977			107831	363339	
1973	47076		3418	12931			121640	551384	
1974	47497		2546	9970			147538	527453	
1975	61620		3082	3258			124344	173207	
1976	75332		11047	5776			381428	333621	
1977	91515		14603	3413			458400	218766	
1978	115345		19215	3976			622434	255368	
1979	122648		14794	6146			691639	409886	
1980	127334		22179	5247			964804	378443	
1981	132892		20432	7918			1079122	636689	
1982	132069		14691	7708			863966	606411	
1983	-		16906	10103			851319	768152	

Country: Thailand

7. Commodity: Cotton Woven Fabrics

ISIC Code	321128								Note:
HSIC Code	3211909								
SIT Code									
NSIC Code	5507, 5508, 5509								
	Quantity				Value				
Source	17		17	17			17	17	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SYN		1000SYN	1000SYN			1000BH	1000BH	
1965	227921		48	105353			1009	459795	
66	250787		243	96952			2319	426838	
1967	277040		1871	98339			7274	405843	
1968	322236		6897	63204			23019	256002	
1969	343963		8297	47620			24847	196707	
1970	365454		3462	56301			21129	381955	
1971	450207		15875	48453			159807	219701	
1972	481311		36495	42883			143257	227643	
1973	566937		69039	42694			410714	262020	
1974	529383		32248	38014			253842	362230	
1975	574406		48671	25745			350072	261539	
1976	699682		122917	14621			1058354	215069	
1977	685560		120200	19430			982196	328184	
1978	713136		130656	18966			1113104	410092	
1979	733989		109597	14538			1392433	263513	
1980	761043		111999	19960			1319533	472011	
1981	790742		95563	18152			1117045	494495	
1982	853230		1729	17827			1526134	458115	
1983	888554		136139	27063			1304390	756926	

Country: Thailand

8. Commodity: Man-made Fabrics

ISIC Code	321146								Note:
NSIC Code	3211915								
SIIC Code									
NSTC Code	5104								
	Quantity				Value				
Source	17		17	17			17	17	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SYN		1000SYN	1000SYN			1000BII	1000BII	
1965	2745		37	64076			284	533995	
1966	42824		733	78248			10736	617069	
1967	42216		909	89365			7074	686219	
1968	37336		322	73633			3460	575239	
1969	51480		145	89217			1897	506389	
1970	77424		175	73679			2400	613389	
1971	145408		414	42923			3574	353975	
1972	201464		23518	44678			127821	322449	
1973	287028		75309	49369			19037	466020	
1974	277992		51153	51102			533688	712532	
1975	337500		66721	40708			455110	648639	
1976	437520		140089	32754			986195	561467	
1977	446391		159436	40268			1190015	647813	
1978	598741		277296	64183			2197445	926482	
1979	654071		287676	61198			2968914	1130455	
1980	672320		213270	101397			2295120	47171	
1981	810150		292535	95034			3184375	2345	
1982	798160		303426	77263			3328972	1492509	
1983	850918		287442	108495			3038784	4771419	

Country: Thailand

9. Commodity: Garment

ISIC Code	3220*								Note:
NSIC Code	32201, 32202								
SITC Code									
NSTC Code	61								
	Quantity				Value				
Source	17		17	17		17	17		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000PN		1000PN	1000PN	1000BH		1000BH	1000BH	
1965	-		-	-	-		-	-	
1966	-		-	-	-		18270	-	
1967	-		-	-	-		14040	-	
1968	-		-	-	-		16130	-	
1969	206892		196	4126	6076494		12290	-	
1970	231793		470	3313	7184957		15130	-	
1971	303450		3806	1478	9804816		64150	-	
1972	340450		13511	1255	12048122		260120	-	
1973	436204		31762	1212	15557907		677170	-	
1974	448976		31656	1359	16771707		844890	-	
1975	492074		41303	850	16992959		1038580	-	
1976	514841		47943	667	23024811		1531215	41228	
1977	548024		46833	976	27748302		1693313	57566	
1978	616386		77286	433	29689288		2664991	32353	
1979	659353		92182	315	35824825		3577212	17780	
1980	729950		109494	644	45865160		4913460	26125	
1981	795927		137819	861	56917603		7037568	27556	
1982	831979		144919	1241	63952645		8006427	39865	
1983	894848		168691	559	-		8865838	33128	

Country: Thailand

## 10. Commodity: Veneer Panels

ISIC Code	331110								Note:
NSIC Code	3311204								
SITC Code									
NSTC Code	4414								
	Quantity				Value				
Source	14		12	12			12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	CMM		CMM	CMM			1000BH	1000BH	
1965	-		-	-			-	-	
1966	-		-	-			-	-	
1967	-		-	-			-	-	
1968	-		-	-			-	-	
1969	-		-	-			-	-	
1970	8000		-	-			-	-	
1971	8000		-	-			-	-	
1972	3272		-	-			-	-	
1973	7073		3954	-			110853	-	
1974	6804		3744	44			92530	510	
1975	4702		4054	5002			110790	5600	
1976	10974		7209	1887			253860	2260	
1977	13517		7727	1146			285870	1400	
1978	10042		6962	4089			261200	3810	
1979	12156		8411	5069			289700	5050	
1980	10050		7499	86			269470	2390	
1981	8872		6158	3395			266920	13130	
1982	-		5801	7748			300350	16780	
1983	-		-	-			-	-	

Country: Thailand

11. Commodity: Plywood

ISIC Code	331116								Note:  a/ Unit=CMM.
NSIC Code	3311201								
SITC Code									
NSTC Code	A-6310201				B-441501				
Source	Quantity				Value				
	11		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SHT		KGM	KGM			1000BH	1000BH	
1965	-		127477	170011			619	443	
1966	-		37597	2644359			135	11080	
1967	2498		15603	1348720			91	7641	
1968	2538		43025	93434			219	776	
1969	2719		114921	2969839			856	12819	
1970	2986		1517153	1624590			3208	65326	
1971	3241		7421334	177351			14164	1580	
1972	3488		11219987	94439			22919	1154	
1973	3569		13511749	231950			35692	924	
1974	3151		9220466	546859			41672	2365	
1975	2965		8869 <sup>a/</sup>	303 <sup>a/</sup>			37514	1251	
1976	2859		9783 <sup>a/</sup>	713 <sup>a/</sup>			43102	3436	
1977	4439		1570689	512974			9291	2739	
1978	4869		408663	373102			5638	3667	
1979	5051		1177789	998051			7101	9242	
1980	4414		486213	595706			5549	6807	
1981	4192		621761	842743			5584	12177	
1982	3881		1026897	1156114			6614	17402	
1983	3990		34897	1195578			891	21466	

ISIC Code	341101				Note:			
HSIC Code	34111							
SITC Code								
NSTC Code	A-25102-25109		B-4701					
	Quantity				Value			
Source	6,11		15	15			15	15
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	TM		TM	TM			1000BH	1000BH
1965	7600		-	8975			-	29144
1966	6600		-	8584			-	25988
1967	9100		-	10316			2	31020
1968	8800		-	12557			-	36478
1969	10400		-	30250			-	91314
1970	18000		-	54212			-	164579
1971	20000		-	44234			-	162959
1972	25000		-	81688			-	246091
1973	27500		93	84225			860	392261
1974	29900		-	69452			-	565319
1975	38000		-	27036			-	211146
1976	52000		-	70971			-	480146
1977	35400		-	87946			-	305008
1978	38000		-	105149			-	690387
1979	36000		-	128526			-	1151908
1980	37000		-	80737			-	942856
1981	37000		-	113637			-	1313000
1982	-		305	92152			2578	918908
1983	-		914	124144			12139	1226197

Country: Thailand

## 13. Commodity: Printing and Writing Paper

ISIC Code	3412*								Note:
NSIC Code	3411108								
SITC Code									
NSTC Code	A-64102, B-480151 161, 722, 723(1970-1976) 480150, 601, 722, 201(1977-1983)								
Source	Quantity				Value				
	14		15	15			15	15	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TH		TH	TH			1000BH	1000BH	
1965	16300		399	6359			3718	38372	
1966	16200		34	11186			76	63031	
1967	21100		35	8810			83	54261	
1968	23906		54	6664			148	40752	
1969	30171		43	6849			113	38935	
1970	31699		41	4862			123	26780	
1971	37681		130	4360			500	30523	
1972	42396		534	6252			3132	32507	
1973	39771		1337	6030			8180	31111	
1974	33829		7	3526			20	30995	
1975	25077		1847	2117			6636	25064	
1976	-		725	5193			2666	38758	
1977	62107		299	5356			3883	99389	
1978	65030		16	6681			322	115968	
1979	70000		313	5062			7214	139522	
1980	76000		30	8777			845	202981	
1981	71300		55	7151			1636	232072	
1982	61700		183	6256			5014	193340	
1983	65500		187	19338			5667	307953	



Country: Thailand

14. Commodity: Sulphuric Acid

ISIC Code	351124								Note:
NSIC Code	3511124								
SITC Code									
NSTC Code	A-5110102				B-280801				
	Quantity				Value				
Source	11		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000BH	1000BH	
1965	-		231	18			305	147	
1966	-		427	22			550	183	
1967	11520		357	47			538	423	
1968	13890		383	13			585	138	
1969	17706		560	92			845	282	
1970	15001		442	20			729	301	
1971	14250		5	55			10	561	
1972	47288		10	17			15	346	
1973	47103		17	20			50	270	
1974	46940		13	42			20	690	
1975	37792		10	116			6	1009	
1976	41679		46	73			104	1297	
1977	56077		32	31			200	698	
1978	70580		475	35			480	761	
1979	59860		390	2101			1137	4216	
1980	54202		555	88			2440	1595	
1981	39520		-	5063			-	9422	
1982	-		-	20			-	522	
1983	-		-	16895			2	21697	

Country: Thailand

15. Commodity: Hydrochloric Acid

ISIC Code	351146								Note:
NSIC Code	3511112								
SITC Code									
NSTC Code	A-5110101				B-280601				
	Quantity				Value				
Source	11		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000BH	1000BH	
1965	-		1	5171			5	8515	
1966	-		-	3645			-	5914	
1967	12919		-	74			-	294	
1968	25420		-	207			-	453	
1969	30648		52	15			62	187	
1970	31590		260	9			306	127	
1971	36561		61	54			78	543	
1972	34078		61	23			104	342	
1973	45650		107	23			247	260	
1974	56366		1760	31			5200	594	
1975	55715		262	31			223	799	
1976	59451		1	23			7	327	
1977	71820		221	25			545	544	
1978	66594		5	33			14	778	
1979	96233		-	16			-	667	
1980	72574		150	21			514	858	
1981	87357		354	61			546	1676	
1982	-		388	28			744	951	
1983	-		256	36			638	1021	

Country: Thailand

16. Commodity: Caustic Soda

ISIC Code	351159								Note:
NSIC Code	3511107								
SITC Code									
NSTC Code	A-5110300				B-281710 (1970-1976)		281711 (1977-1983)		
	Quantity				Value				
Source	11		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000BH	1000BH	
1965	-		-	9016			-	17187	
1966	-		-	9499			-	14662	
1967	9609		-	7038			-	12000	
1968	18473		4	8752			5	13007	
1969	24526		-	8667			-	12445	
1970	32745		-	4509			-	8483	
1971	38634		-	3578			-	9700	
1972	38936		-	1727			-	6272	
1973	46969		-	3027			-	10529	
1974	53427		10	7545			85	38280	
1975	56246		-	2290			-	15580	
1976	61254		3	8288			40	28867	
1977	65282		18	14579			134	42888	
1978	62097		4	7615			32	23435	
1979	66827		6	19230			34	72760	
1980	67730		3	7936			26	32038	
1981	67654		-	14741			-	78969	
1982	-		9	11150			115	69721	
1983	-		8	15145			149	76562	

Country: Thailand

17. Commodity: Nylon Filament

ISIC Code	351337*							
NSIC Code	3513103							
SITC Code								
NSTC Code	510302		510102					
	Quantity				Value			
Source	17		15	15			15	15
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	TM		TM	TM			1000BH	1000BH
1965	-		-	-			-	-
1966	-		-	-			-	-
1967	-		-	-			-	-
1968	-		-	-			-	-
1969	845		-	-			-	-
1970	1179		48	1039			1533	69805
1971	3600		273	1374			5475	48350
1972	4780		190	2370			4644	81892
1973	8210		-	3417			40336	180905
1974	7155		58	2132			2020	131648
1975	9427		90	470			4217	25978
1976	12110		36	582			1832	29175
1977	13066		236	86			12387	7653
1978	14902		355	278			19013	19346
1979	15795		166	263			9561	27342
1980	16716		387	228			28202	20452
1981	17080		1281	1707			86880	136288
1982	13739		380	1089			31275	89241
1983	-		825	729			59807	68522

Note:

Country: Thailand

18. Commodity: Soap

ISIC Code	352301								Note:
NSIC Code	3523101								
SITC Code									
NSTC Code	A-55202				B-3401				
	Quantity				Value				
Source	14		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		TN	TN			1000BH	1000BH	
1965	-		462	2915			6756	30287	
1966	-		109	2736			1809	38518	
1967	-		96	2870			1572	45781	
1968	-		131	3051			1679	561924	
1969	-		99	7865			1474	86840	
1970	-		97	740			1590	16215	
1971	-		56	452			876	8852	
1972	-		132	573			2420	10319	
1973	-		272	501			4937	8811	
1974	-		335	553			7558	13150	
1975	9682		88	528			2434	13217	
1976	11030		80	593			1900	15808	
1977	12741		214	576			4461	18616	
1978	17087		288	598			6526	20968	
1979	22417		334	357			9084	13823	
1980	-		463	264			17395	9994	
1981	-		1569	270			82692	12780	
1982	-		1270	230			28155	10536	
1983	-		486	250			18828	9746	

Country: Thailand

19. Commodity: Jet Fuel

Source	Quantity				Value			
	19 Production 1000LN	Shipment	15 Export 1000LN	15 Import 1000LN	Production	Shipment	15 Export 1000BH	15 Import 1000BH
1965	-		-	430322			-	209461
1966	-		-	1531760			-	715318
1967	-		-	94071			-	16611
1968	-		-	111651			-	30965
1969	-		300	63828			281	29828
1970	310693		548	10047			462	5615
1971	470381		3775	-			3206	-
1972	839032		25514	4866			19764	3016
1973	882006		53524	2217			38531	1355
1974	671492		11124	36			22658	64
1975	815364		2680	20232			5817	40473
1976	839906		11574	16107			26206	34067
1977	752305		437	21218			1141	47700
1978	755246		638	48880			1839	66499
1979	787314		1013	96801			3170	326680
1980	776803		15025	179267			69592	1020792
1981	925093		1051	75918			8682	487047
1982	948635		1522	95491			12610	644359
1983	-		2022	79678			14882	439229

Note:

Country: Thailand

20. Commodity: Gasoline

ISIC Code	353007								Note:
NSIC Code	3530114								
SITC Code									
NSTC Code	A-31301				B-27101				
Source	Quantity				Value				
	19		15	15			15	15	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	1000LN		1000LN	1000LN			1000BII	1000BII	
1965	-		38510	234876			15266	145884	
1966	-		9102	273422			4695	201247	
1967	-		19270	216470			8484	123701	
1968	-		16	192176			14	117558	
1969	-		25437	205462			20113	121758	
1970	818215		25262	278646			21129	150952	
1971	1283391		97687	107604			62402	58095	
1972	1447948		200190	40394			97782	26298	
1973	1615001		210856	180265			142660	114531	
1974	1623458		57525	51011			109526	76604	
1975	1734025		41011	92265			97333	224932	
1976	1902963		1	59749			3	159160	
1977	2118444		-	77786			1	211319	
1978	2058283		-	282977			-	728268	
1979	21.7158		4800	208858			9414	785410	
1980	1827814		1	433448			77	2510052	
1981	1822395		-	303299			5	1845066	
1982	1982046		-	36597			5	301292	
1983	-		-	35722			2	240319	

Country: Thailand

21. Commodity: Kerosene

Source	Quantity				Value			
	11 Production 1000LN	Shipment	15 Export 1000LN	15 Import 1000LN	Production	Shipment	15 Export 1000BH	15 Import 1000BH
1965	-		3595	47667			1537	30805
1966	-		13	58981			14	30134
1967	-		353	48449			375	32029
1968	-		-	40111			-	28650
1969	-		608	30809			594	24390
1970	128035		523	43531			557	32045
1971	194541		7449	15876			3265	17007
1972	286766		26196	10924			18557	13113
1973	235812		37528	9530			30528	11727
1974	284566		53389	6979			105367	13372
1975	245189		55688	6767			107017	13837
1976	292912		35000	2120			74553	4049
1977	281306		-	9917			-	22601
1978	262382		-	8629			-	20599
1979	318920		-	12703			-	45667
1980	292712		61	7757			322	42972
1981	353228		79	46533			642	300043
1982	360514		-	78448			-	528758
1983	-		1	122671			5	752881

Note:



Country: Thailand

22. Commodity: Diesel Oil

ISIC Code		35301*							
NSIC Code		3530108							
SIFC Code									
NSTC Code		A-3130301-3130303			B-271031				
		Quantity				Value			
Source	19	15	15		15	15			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	1000LN		1000LN	1000LN			1000BII	1000BII	
1965	-		7555	519690			3242	251661	
1966	-		1389	585812			893	279717	
1967	-		11581	709431			5147	318216	
1968	-		-	1255699			-	421128	
1969	-		11921	1191778			9099	501381	
1970	1150344		14200	994369			12472	467138	
1971	1740780		72360	784122			42922	360081	
1972	2161138		111997	630543			68350	309171	
1973	2220591		123265	887197			89149	604072	
1974	2032848		34997	992356			62295	1446462	
1975	2171133		8190	712308			17307	1273784	
1976	2546695		-	790349			-	1514638	
1977	2799398		-	912102			-	1871327	
1978	2575615		-	1442550			-	3039264	
1979	2771872		-	1490259			-	4845310	
1980	2794040		-	1516719			-	8371078	
1981	2751294		-	1218060			-	7361353	
1982	2844938		-	1167145			-	7488477	
1983	-		-	1137143			-	6103688	

Note:

Country: Thailand

23. Commodity: Liquefied Petroleum Gas

ISIC Code		353037							Note:
HSIC Code		3530108							
SITC Code									
NSTC Code		271103							
Source	Quantity				Value				
	19	15	15	15	19	15	15	15	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	1000LN		TH	TH				1000BH	
1965	-		-	-			-	-	
1966	-		-	-			-	-	
1967	-		-	-			-	-	
1968	-		-	-			-	-	
1969	-		-	-			-	-	
1970	87089		-	-			-	-	
1971	102217		-	-			-	-	
1972	147006		-	-			-	-	
1973	195193		-	-			-	-	
1974	188749		-	-			-	-	
1975	196618		-	-			-	-	
1976	223247		-	-			-	-	
1977	240358		-	1835			-	6658	
1978	218537		-	34222			-	115889	
1979	250893		-	44948			-	206375	
1980	231910		-	73790			-	640766	
1981	243574		-	126392			-	1209464	
1982	193344		-	259031			-	2306202	
1983	-		-	335601			-	3067209	

Country: Thailand

24. Commodity: Tires for Tractors

ISIC Code	355104							
NSIC Code	3551106							
SIFC Code								
NSTC Code	A-6290105				B-401110			
Source	Quantity				Value			
	11		15	15			15	15
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	NON		NON	NON			BH	BH
1965	-		-	5697			-	10391
1966	-		-	8289			-	10234
1967	13658		-	9874			-	12476
1968	18525		50	9179			38	14214
1969	14976		-	9242			-	11245
1970	26987		-	36220			-	15084
1971	35215		190	8372			214	17217
1972	26984		1010	4729			940	13045
1973	25894		3258	4394			2312	17195
1974	32333		2829	7631			3333	12059
1975	33498		1277	3633			3207	26541
1976	43135		2387	5602			3054	35756
1977	43954		1107	4678			1989	27733
1978	44039		2278	3485			5919	14493
1979	43631		6657	6059			10777	33891
1980	33199		8072	4548			21414	56379
1981	-		24208	5725			37961	36748
1982	-		7947	6055			21187	42092
1983	-		9636	7925			19229	37328

Note:

Country: Thailand

25. Commodity: Glass, Drawn or Blown, in Rectangles

ISIC Code	362001								Note:
NSIC Code	3620102								
SITC Code									
NSIC Code	7005	7006							
Source	Quantity				Value				
	12,13		15	15			15	15	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM		TM	TM			1000BII	1000BII	
1965	-		-	-			-	-	
1966	-		-	-			-	-	
1967	-		-	-			-	-	
1968	-		-	-			-	-	
1969	-		-	-			-	-	
1970	-		3	4016			22	18564	
1971	-		441	3470			766	18023	
1972	-		7082	3511			13479	14342	
1973	46166		3195	3223			8143	18436	
1974	43920		963	3420			4068	26727	
1975	41932		565	2500			3178	21970	
1976	49387		5064	3395			31163	26934	
1977	65027		13550	3931			61352	40052	
1978	67833		15049	4210			66194	39265	
1979	79615		8629	4471			42149	48890	
1980	74756		7074	5704			35692	66652	
1981	80207		2059	8090			12688	123952	
1982	82858		5223	8056			30631	119419	
1983	-		23740	12436			132444	162744	

Country: Thailand

26. Commodity: Tiles, Floor and Wall

ISIC Code	369107								Note:
NSIC Code	36992-02								
SITC Code									
NSTC Code	690802, 690803								
	Quantity				Value				
Source	11		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	SMM		TM	TM			1000BH	1000BH	
1965	-		-	-			-	-	
1966	-		-	-			-	-	
1967	-		-	-			-	-	
1968	-		-	-			-	-	
1969	5972		-	-			-	-	
1970	523684		10	10014			12	43699	
1971	204306		14	10389			13	39053	
1972	509964		17	6055			35	25601	
1973	716067		389	1756			2383	12700	
1974	396639		452	2163			2986	19014	
1975	-		1099	1741			7681	17033	
1976	708329		13312	1921			51368	16817	
1977	836488		17027	1796			94877	16860	
1978	1166614		27965	592			192237	5254	
1979	1391341		21292	-			173711	-	
1980	-		19298	32			210369	393	
1981	-		18218	-			209847	-	
1982	-		19287	-			204567	-	
1983	-		24797	-			289076	-	

Country: Thailand

27. Commodity: Cement

ISIC Code		369204							Note:
NSIC Code		3692101							
SITC Code									
NSTC Code		A-66102			B-2523				
Source		Quantity			Value				
Unit	14 Production TM	Shipment	15 Export TM	15 Import TM	Production	Shipment	15 Export 1000BH	15 Import 1000BH	
1965	1247000		105655	39113			41016	13777	
1966	1482000		45423	262993			16821	122784	
1967	1733000		32987	312243			16740	112285	
1968	2168000		34705	107365			18927	40660	
1969	2403000		95491	39768			38400	21350	
1970	2626000		150815	22508			83499	13315	
1971	2770000		237601	4860			89628	5444	
1972	3377000		736572	1018			218198	1122	
1973	3705000		3578132	35			314168	150	
1974	3923000		919536	516			650423	1354	
1975	3959000		729128	358			511255	1786	
1976	4422000		633286	439			378879	2653	
1977	5062000		313229	533			217174	3028	
1978	5044000		22607	351971			33151	392251	
1979	5203000		21886	1236816			32935	1433539	
1980	5336000		33519	941764			51951	1324809	
1981	6262000		55862	108532			99335	174806	
1982	6609000		215797	883			279185	7178	
1983	7263000		156526	11065			197824	27183	

Country: Thailand

28. Commodity: Pig Iron

ISIC Code	371010								Note:
NSIC Code	3711101								
SITC Code									
NSTC Code	A-6810101		B-730102 (1970-1976)		73101 (1977-1983)				
Source	Quantity				Value				
	14		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000BH	1000BH	
1965	-		130	-			360	-	
1966	-		-	705			-	1061	
1967	6392		-	1034			-	1554	
1968	17352		-	33			-	120	
1969	11120		-	132			-	308	
1970	10812		800	716			1178	1070	
1971	13560		304	1172			399	1780	
1972	11918		3225	330			4111	897	
1973	14063		8650	60			15977	273	
1974	16021		8340	2033			28207	5782	
1975	13546		-	2213			-	7519	
1976	18334		-	553			-	2426	
1977	19612		12	20337			39	35161	
1978	21108		-	50			-	388	
1979	23877		-	22460			-	77758	
1980	17337		-	4614			-	15686	
1981	10311		-	26783			-	80774	
1982	6337		-	14103			-	63666	
1983	-		-	12000			-	38988	

Country: Thailand

29. Commodity: Galvanized Steel Plate

ISIC Code	371058								Note:
NSIC Code	3711117								
SITC Code									
NSIC Code	A-6810702				B-731320				
	Quantity				Value				
Source	14		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		TN	TN			1000BII	1000BII	
1965	65473		462	677			2160	3749	
1966	67699		471	1097			2213	5823	
1967	93548		537	1455			2615	5690	
1968	89797		1436	3086			8250	9400	
1969	94625		973	1067			4526	4157	
1970	85522		153	787			748	3782	
1971	97348		384	1480			1787	8564	
1972	103825		127	667			579	3662	
1973	86056		575	1065			3585	6014	
1974	72118		6	511			35	3478	
1975	83146		11	8984			120	64319	
1976	88849		11	14912			110	102496	
1977	101687		-	21266			-	156536	
1978	84808		1	24576			31	200355	
1979	101522		-	91047			-	382928	
1980	124038		89	21144			873	221891	
1981	151630		26	19067			261	215927	
1982	126884		20	41358			138	536044	
1983	123679		-	55279			-	565344	



Country: Thailand

30. Commodity: Air Conditioners

ISIC Code	382925								Note:
NSIC Code	3829201								
SITC Code									
NSTC Code	A-7161202				B-841201				
	Quantity				Value				
Source	12		12	12			12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON		NON	NON			1000BH	1000BH	
1965	-		30	8571			119	42557	
1966	-		21	16841			110	68061	
1967	-		-	18970			-	71922	
1968	-		-	18026			-	71796	
1969	-		-	16122			-	62498	
1970	-		-	13020			-	69729	
1971	-		38	12638			13	41891	
1972	-		38	7135			83	32295	
1973	-		85	12345			120	52860	
1974	-		286	8138			483	36695	
1975	-		51	3827			180	19491	
1976	-		72	3716			335	18187	
1977	-		25	3020			271	12792	
1978	-		144	5161			914	21684	
1979	51800		439	4176			3634	22383	
1980	48900		6671	3200			49390	20199	
1981	43800		2215	4047			16097	30736	
1982	40300		13124	5764			53271	39909	
1983	-		23379	12723			78858	79761	

Country: Thailand

31. Commodity: Television Receiving Sets (Color)

ISIC Code	383201*								Note:
NSIC Code	3832102								
SITC Code									
NSTC Code	851521								
	Quantity				Value				
Source	12		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON		NON	NON			1000BH	1000BH	
1965	-		-	-			-	-	
1966	-		-	-			-	-	
1967	-		-	-			-	-	
1968	-		-	-			-	-	
1969	-		-	-			-	-	
1970	-		-	3712			-	24724	
1971	-		-	983			-	5980	
1972	-		-	390			-	444	
1973	-		13	754			124	4158	
1974	-		308	2450			1273	17286	
1975	-		5	2125			62	17135	
1976	-		83	2204			635	13579	
1977	-		4	4207			16	27450	
1978	-		67	2938			403	18027	
1979	39300		81	3910			646	19562	
1980	49900		2726	7310			5214	34406	
1981	72700		1045	42708			7287	205202	
1982	-		16507	48338			55259	237611	
1983	-		7433	53991			22506	237249	

Country: Thailand

32. Commodity: Radio Receivers

ISIC Code	383204								Note:
NSIC Code	3832101								
SITC Code									
NSTC Code	A-7210409				B-851527				
	Quantity				Value				
Source	12.20		20	20			20	20	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON		NON	NON			1000BH	1000BH	
1965	-		-	335817			-	72580	
1966	-		60	264487			6	55818	
1967	37612		280	164563			55	39870	
1968	32452		16	291021			1	56141	
1969	53574		-	249266			-	54793	
1970	71971		16265	326368			-	-	
1971	91932		17152	89194			-	-	
1972	104465		4413	85985			-	-	
1973	200239		29160	417453			-	-	
1974	335698		72369	106343			-	-	
1975	153149		77118	130745			-	-	
1976	130763		22988	89185			-	-	
1977	134573		2993	82824			-	-	
1978	169812		9091	67315			-	-	
1979	-		-	-			-	-	
1980	-		173515	205623			33836	178999	
1981	-		61222	487055			29670	384407	
1982	-		47236	646643			65963	313143	
1983	-		-	-			-	-	

Country: Thailand

33. Commodity: Storage Batteries

ISIC Code	383913								Note:
NSIC Code	3839201								
SITC Code									
NSTC Code	8504								
	Quantity				Value				
Source	11		15	15			15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON		NON	NON			1000BH	1000BH	
1965	-		-	-			-	-	
1966	-		-	-			-	-	
1967	66854		-	-			-	-	
1968	91959		-	-			-	-	
1969	106576		-	-			-	-	
1970	153168		-	14798			-	76505	
1971	243470		1	20006			32	52748	
1972	292457		0.3	30519			79	49744	
1973	427142		48	28656			2033	34334	
1974	470443		44	23183			1845	31551	
1975	573971		263	4457			4570	19941	
1976	636882		6235	1768			21412	8002	
1977	851054		12346	762			41964	12304	
1978	967291		8651	122			46242	15195	
1979	1162902		7236	62			76218	13173	
1980	1575159		37	134			131963	16245	
1981	1601347		5040	84			81826	17697	
1982	-		1844	157			72955	17271	
1983	-		4898	116			84123	46429	

Country: Thailand

34. Commodity: Refrigerators (for household use)

ISIC Code	382958								Note:
NSIC Code	3892103								
SITC Code									
NSTC Code	A-8990801				B-841523				
	Quantity				Value				
Source	12	15	15		15	15			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON		NON	NON			1000BH	1000BH	
1965	-		-	16106			-	40554	
1966	-		-	25791			-	60807	
1967	-		5	32144			111	64089	
1968	-		-	36848			-	69253	
1969	-		7	50907			31	85133	
1970	-		3	38934			9	96215	
1971	-		403	19787			753	31202	
1972	-		314	16411			696	27310	
1973	-		91	19603			183	41674	
1974	-		891	24656			2058	51887	
1975	-		870	14664			2032	33098	
1976	-		2430	11288			6441	30251	
1977	-		2006	12347			4648	40493	
1978	-		2005	13502			5163	55855	
1979	220000		4715	14663			14186	63115	
1980	270000		17577	8810			55163	36599	
1981	288000		27645	7611			94922	44045	
1982	274000		20825	4532			81208	28512	
1983	-		4314	9483			16519	49435	

Country: Thailand

35. Commodity: Incandescent Lamps

ISIC Code	383916								Note:
NSIC Code	3839301								
SITC Code									
NSTC Code	A-8120404				B-830711				
Source	Quantity				Value				
	11		15	15			15	15	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	NON		NON	NON			1000BH	1000BH	
1965	-		-	55777			-	4253	
1966	-		-	72201			-	5311	
1967	7199000		-	66172			-	7121	
1968	9086000		-	68376			-	6895	
1969	9093000		14	68053			2	6382	
1970	10043000		-	34267			-	3727	
1971	10670000		-	38407			-	4303	
1972	11583000		150	37828			27	4296	
1973	10764000		-	48535			-	4589	
1974	8569000		-	7302			-	901	
1975	9623000		-	22552			-	2751	
1976	12404000		-	40628			-	6567	
1977	14324000		141	9260			28	1613	
1978	15232000		452	6600			10	1356	
1979	14314000		1476	8212			36	2190	
1980	17724000		15336	5640			314	1201	
1981	13886000		365	10752			9	835	
1982	-		23364	12000			663	325	
1983	-		51182	-			1098	-	

Country: Thailand

36. Commodity: Passenger Motor Cars

ISIC Code		384307, 384310							Note:
NSIC Code		384302							
SITC Code									
NSTC Code		A-7320102			B-870271				
		Quantity				Value			
Source	14	15	15	15	15	15	15	15	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON		NON	NON			1000BH	1000BH	
1965	4408		-	11474			-	321412	
1966	4898		-	14984			-	434541	
1967	6211		-	23316			-	558560	
1968	7209		-	27898			-	764598	
1969	6110		-	24376			-	701669	
1970	6604		-	15224			-	510608	
1971	9017		-	8991			-	323907	
1972	11630		8	7248			360	311766	
1973	17935		1	12780			32	544131	
1974	17572		3	11748			110	560394	
1975	15524		3	7864			173	314775	
1976	15333		8	5366			389	290454	
1977	17856		2	7002			59	462513	
1978	23459		2	2487			92	215800	
1979	21602		10	1166			2066	162531	
1980	23441		7	685			1114	40796	
1981	26650		2	400			140	28945	
1982	24629		4	683			358	47256	
1983	33945		1	767			214	70805	

Country: Thailand

37. Commodity: Motor Cycles and Scooters

ISIC Code		384401								Note:
NSIC Code		3844101, 3844102								
SITC Code										
NSTC Code		A-7320201, 7320202		B-870901						
Source		Quantity				Value				
		14	15	15		15	15			
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import	
		NON		NON	NON			1000BH	1000BH	
1965	-			-	58292			-	197278	
1966	-			-	76321			-	247629	
1967	-			-	109966			-	318837	
1968	-			-	81153			-	258706	
1969	-			1	100019			20	208527	
1970	-			-	78641			-	183519	
1971	-			1	59057			2	142369	
1972	34380			231	46352			1004	104276	
1973	56615			19	26781			200	213003	
1974	68779			1	41501			15	303000	
1975	83939			6	58155			63	433000	
1976	99015			9	65412			114	463975	
1977	149524			14	89259			145	695975	
1978	190776			19	26781			200	213003	
1979	244208			252	575			2501	708	
1980	283979			723	776			8817	5718	
1981	304779			1784	1688			11682	27775	
1982	292703			5987	4251			3735	9922	
1983	313260			404	5470			6501	15865	



**PART II**

**BANGLADESH**

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Convertors between ISIC and National Industrial Classification
- IV. Commodity Balance Sheets

**I. Explanatory Notes on Manufacturing Statistics**

CENSUS OF MANUFACTURING INDUSTRIES 1976/77  
IN  
BANGLADESH

1. Introduction:

Census of manufacturing industries in Bangladesh was first conducted in 1953 and repeated annually in the subsequent years till 1959/60. Industrial Census is conducted under the Industrial Statistics Act 1942 and the Census of Manufacturing Industries Rules 1955. The reference period for the Census was calendar year upto 1958 which was later changed to fiscal year basis since 1959/60 and continues to be so with little modifications as suited to the prevailing circumstances of the country.

2. Reference Period:

Thus the reference period of the Census of Manufacturing Industries 1976/77 is continuous twelve months ending on or before 30th June, 1977. This has been done because different establishments maintain their financial records according to their own convenience.

3. Scope and Coverage:

The geographical coverage of the census extends to whole of Bangladesh. All manufacturing activities including repairing and services registered as manufacturing establishments with the Chief Inspector of Factories under section 2(j) and 5(i) of the Factories Act, 1934 and section 2(f) of the Factories Act, 1965 are covered.

Section 2(j) factory means those units which employed 20 or more workers on any day of the preceding year and in any part of which manufacturing activities are carried out with the aid of power.

Section 5(i) factory means those units which employed 10 or more workers on any day of the preceding year, whether using power or not in the manufacturing process.

Section 2(f) factory means premises including the precincts there of where on 10 or more workers are working or were working on any day of the preceding twelve months and in any part of which a manufacturing process is carried on with or without the aid of power.

Thus the coverage of the census extends in principle of all large and medium scale manufacturing industries in Bangladesh.

#### 4. Statistical Units Used for Enumeration:

The establishment type unit used as the Statistical unit for collection of data. The main criteria are

- i) Single or Joint Ownership of Control.
- ii) Single physical location or at two or more nearby sites where local units do not maintain separate accounts. If separate accounts is maintained or available, as such local units are treated as separate establishment.
- iii) Predominantly one kind of economic activity.

#### 5. Frame Used for Enumeration:

A frame is an essential pre-requisite of conducting statistical inquiries. A list of establishments engaged in manufacturing activities during 1976/77 is maintained with their addresses, employments, etc. and called a "Directory of Manufacturing Establishments". The Directory includes all manufacturing industries registered with the Chief Inspector of Factories (CIF) under Section 2(j) and 5(i) of the Factories Act, 1934 and section 2(f) of the Factories Act, 1965.

This registration is the criteria on which the large and medium size establishments of the country must be registered with the Chief Inspector of Factories. And the Chief inspector of Factories in this turn reports regarding all such factories registered every month and also possible deaths of and changes in addresses/activities of the registered units. The directory used for this census was duly up dated with the help of these information.

#### 6. Census Questionnaire:

Two types of questionnaire are developed for the census-long-form Questionnaire meant for large establishments and short-form questionnaire meant for medium scale establishments. Factories having 20 or more workers are contacted with long-form questionnaire and those with less than 20 workers with short-form questionnaire.

The questionnaires used in the census are designed to provide information on following broad categories:

- i) Particulars of establishments.
- ii) Fixed assets.
- iii) Stock at the beginning and end of the year.
- iv) Employment and employment cost.
- v) Cost of materials purchased and consumed and payment for work done by others.
- vi) Goods manufactured and sold and receipt for work done for others.
- vii) Other cost during the year including indirect taxes and subsidies.

#### 7. Methods of Collection of Data:

Self enumeration method is used where the respondent fills up the schedules directly. The schedules with an instruction for filling up returns are sent to the respondent by mail to submit the filled-in-schedules within a specified date. Reminders to the factories which have not responded by the specified date, are sent. The follow-up action is intensified with telephone calls, personal letters and eventually personal visits. C.M.I. rules allow legal action in the last resort.

#### 8. Methods of Editing:

All filled-in-schedules are fully edited to ensure certain standard of quality in data supplied by detecting Omissions, inconsistencies and errors and if necessary taking correction measures. This process involves- (i) inspection of the questionnaire for Omissions (ii) examination of the item information for both internal (among data in the questionnaire) and external (with data from other sources) consistencies. Inadequacies detected in the questionnaire are corrected by questioning the respondents or by imputation.

#### 9. Methods of Processing:

All items of information in schedules are coded. Coding facilitates tabulation according to predetermind systems - (i) industrial activity; (ii) area; (iii) ownership; (iv) size; (v) products; (vi) materials etc. For the purpose, coding system has been developed. The information from the coded schedules are transferred to magnetic tapes from which they are sorted, summarised and tabulated by the computer.

Tabulation of census data are based on activity classification. For this "Bangladesh Standard Industrial Classification" has been developed conform to the "International Standard Industrial Classification".

#### 10. Concepts and Definitions:

An idea of the Conceptual coverage of some of the terms used in the census is presented below:

- i) Fixed Assets: mean all acquisitions, whether obtained from other enterprises or produced by the establishment of its resources for its own use, or physical assets which are expected to have a productive life of more than one year, both new and second hand, and including additions, alterations and improvements to existing fixed assets. Expenditure for repair and maintenance are excluded. It consists of land, buildings and other construction, machinery, tools and other mechanical equipment and other fixed assets.
- ii) Stock: refers to inventories of input materials such as, raw materials, fuel, spare parts, packing materials, lubricants etc. For consumption by the establishment as well as semi-finished products and finished products and by-products.
- iii) Work-In-Progress: refers to value of all materials which have been partially processed by the establishment but which are not usually sold without further processing.
- iv) Depreciation: means the periodic allocation to operating expense of the cost of physical assets. The provisions are designed to cover wear and tear and unforeseen obsolescence of all fixed capital as well as accidental damage to it. The sale of fixed assets or unforeseen obsolescence are treated as depreciation at the time it occurs.
- v) Number of Persons Engaged: Persons engaged in establishment may be paid or unpaid where as, the category "employees" include all persons engaged excluding working proprietors and unpaid family workers.
- vi) Production Workers: means those who are engaged on work directly associated with production, whether paid or unpaid. It includes those engaged in manufacturing, assembling, packing, repairing etc. working supervisors and persons engaged for repair and maintenance are included here.

- vii) Wages and salaries (Employment Cost): This includes all payments, whether in cash or in kind, made by the employer in connection with work done. It includes all cash payments, bonuses, cost of living allowances and wages paid during periods of vacation and sick leave; taxes and social insurance contribution and the like payable by the employee but deducted by the employer and payments in kind. Lay-off payments and compensation for unemployment are included.
- viii) Industrial cost (Value of Materials consumed And cost of Fuel and Electricity Consumed): refers to cost of materials and supplies that have been physically incorporated in the products and by-products, cost of fuel and electricity used for manufacturing purposes, as well as payment for work done by others and cost of Materials and supplies bought and resold without further manufacture.
- ix) Value of Gross output (Value of Products Net change in Work-In-Process): The value of products and by-products produced by the establishment plus net change in work-in-progress plus value of goods sold in the same condition as received plus receipts for work done for and services rendered to others plus value of electricity sold. Products and by-products are valued at the ex-factory prices which mean goods sold at the gate of factory.
- x) Non-Industrial Cost: Include the cost of all non-industrial services rendered by other establishment and paid for by the respondent establishments and as such reflected in the ex-factory price of its production. It includes payments for water charges, printing and stationery, advertising, business insurance, postage, telegraph and telephone, banking, legal and accounting services rendered to the establishment and also amount paid for technical know-how and consultative service.
- xi) Census Value Added: means value of gross output less industrial cost.
- xii) Value Added at Factor Cost: means census value added less non-industrial cost, less indirect taxes net of subsidies.

II. General Industrial Statistics

1. Explanatory Notes

2. Statistical Tables

2.1 Number of Establishments

2.2 Employment (Average Number of Persons Engaged)

2.3 Employment (Average Number of Persons Employees)

2.4 Gross Output

2.5 Waged and Salaries

2.6 Value Added

2.7 Index Number of Industrial Production (1974=100)



## Explanatory Notes

### I. Classification:

The classification of industrial activity set out in the tables follows the three-digit code of the present version of ISIC. The data used NA(national source) according to BSIC(Bangladesh Standard Industrial Classification) are converted to ISIC based on the Convertors (III).

### II. Sources of Data:

The statistical data presented in the following tables derived from three kinds of data sources, UN, UNIDO and NAS. The abbreviation of data sources are as follows.

UN-----UN, Yearbook of Industrial Statistics, Vol. I, General Industrial Statistics.

UNIDO--UNIDO, General Industrial Data Base.

NAL----Bangladesh Bureau of Statistics, Report on Industrial Census

NA2-----

### III. Reference Period:

The reference period is the fiscal year from 1 July to 30 June; in the tables, the period referred is the fiscal year ending in the year indicated.

### IV. Concepts and Definitions:

For description of concepts and definitions used in the data sources cited above, please refer to Explanatory Notes on Manufacturing Statistics.

### V. Footnotes:

See at the end of each indicator.

## COUNTRY: BANGLADESH

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	255	216		226	211	338	408	472	423	413	---	---		
		UNIDO NA1 NA2		455	482	484	543	449	473	572	614	620	611	643	669	647
313	Beverages		4	7	---	6	6	6	6	8	5	5	---	---		
				7	7	7	5	6	6	6	9	10	9	9	9	6
314	Tobacco		17	27	---	23	21	24	23	22	21	22	---	---		
				63	47	47	24	28	28	25	27	27	28	28	30	33
321	Textiles		412	526	---	732	575	444	486	599	1068	997	---	---		
				876	553	1166	450	464	492	516	504	526	530	540	565	567
322	Wearing apparel	58	67	---	72	63	128	136	78	61	52	---	---			
323	Leather and products		71	98	---	93	81	145	148	107	99	99	---	---		
				190	192	202	200	158	146	147	136	137	137	141	142	147
324	Footwear		20	31	---	26	20	46	47	24	15	12	---	---		
				204	208	213	190	204	204	206	170	171	106	108	108	111
331	Wood products		8	2	---	4	3	22	23	19	17	16	---	---		
				14	15	20	20	25	23	20	29	29	22	23	28	30

## Notes for UN data:

Establishments with 10 or more workers

Twelve months ending 30 June of the year indicated

Manufacture of metal furniture and fixture is included in major group 332

COUNTRY: BANGLADESH

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	27	31	---	29	20	50	47	28	17	17	---	---		
			104	68	71	69	59	59	59	67	68	65	66	86	70
341	Paper and products	17	16	---	19	17	36	37	32	27	26	---	---		
			37	30	32	47	37	37	40	43	43	39	41	44	42
342	Printing, publishing	92	106	---	82	85	132	129	115	117	115	---	---		
351	Industrial chemicals	18	14	---	14	17	35	32	21	20	19	---	---		
			683	764	733	759	617	600	576	536	545	525	534	561	515
352	Other chemical products	219	249	---	307	258	485	464	367	345	355	---	---		
353	Petroleum refineries	2	1	---	---	1	2	2	3	1	1	---	---		
354	Petroleum, coal products	---	---	---	---	---	---	---	---	1	---	---	---		
			5	5	4	4	3	3	3	4	4	3	3	3	4
355	Rubber products	8	7	---	8	8	22	21	22	21	28	---	---		
			5	5	6	8	3	3	3	16	16	30	31	30	49

## COUNTRY: BANGLADESH

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	13	17	---	18	20	23	25	28	28	28	---	---		
361	Pottery, china etc.	2	4	---	3	3	4	4	4	5	5	---	---		
362	Glass and products	20	21	---	10	20	30	43	43	38	42	---	---		
369	Non-metal products n.e.c.	14	8	---	5	8	11	14	12	12	15	---	---		
			58	58	54	61	57	61	60	72	72	77	77	81	74
371	Iron and steel	22	27	---	17	20	41	43	44	38	41	---	---		
			40	46	43	45	44	44	48	48	48	48	48	53	54
372	Non-ferrous metals	---	---	---	---	---	---	---	---	---	---	---	---		
381	Metal products	115	114	---	135	108	193	192	186	203	228	---	---		
			283	254	253	252	215	221	228	228	236	265	305	328	292
382	Machinery n.e.c.	58	54	---	68	68	90	91	102	84	95	---	---		
			100	88	93	107	94	87	114	113	116	108	108	123	140



COUNTRY: BANGLADESH

Employment(Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN								---	41.48	36.62	---	---	
		UNIDO NA1 NA2	26.351	22.540	11.653	18.177	27.474	36.362	45.925	47.063	41.518	36.406			
313	Beverages									---	0.78	0.80	---	---	
			423	587	364	425	648	626	462	668	774	779			
314	Tobacco									---	5.23	5.48	---	---	
			4.188	4.835	4.920	5.261	4.820	5.572	5.984	5.094	5.225	5.465			
321	Textiles									---	263.30	272.25	---	---	
			130.824	189.943	145.815	123.564	247.471	243.308	226.359	221.427	266.753	269.745			
322	Wearing apparel									---	0.48	0.54	---	---	
323	Leather and products									---	2.55	2.18	---	---	
			2.126	2.193	1.528	1.576	1.993	2.852	3.957	2.820	2.453	2.058			
324	Footwear									---	0.92	0.86	---	---	
			1.809	1.548	1.313	1.632	2.439	4.550	3.657	3.410	1.409	1.332			
331	Wood products									---	1.68	1.35	---	---	
			233	18	134	139	34	435	509	519	1.668	1.348			

Notes for UN data:

Establishments with 10 or more workers

Twelve months ending 30 June of the year indicated

Manufacture of metal furniture and fixture is included in major group 332

COUNTRY: BANGLADESH

Employment (Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	576	577	354	558	486	946	1.254	667	1.203	1.085	---	---		
341	Paper and products	3.196	2.245	2.402	3.130	6.151	8.014	11.189	9.139	7.974	7.921	---	---		
342	Printing, publishing	2.563	2.643	1.719	2.192	2.481	3.412	3.585	4.950	4.599	4.617	---	---		
351	Industrial chemicals	15.830	15.879	14.585	11.597	22.702	28.410	27.298	27.911	28.356	29.038	---	---		
352	Other chemical products								---	23.69	24.10	---	---		
353	Petroleum refineries								---	0.49	0.45	---	---		
354	Petroleum, coal products	0.034	0.391	---	---	0.010	0.471	0.462	0.456	0.493	0.452	---	---		
355	Rubber products	0.045	0.029	0.036	0.033	---	00.58	0.055	0.181	2.226	2.229	---	---		

COUNTRY: BANGLADESH

Employment (Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.								---	0.66	0.64	---	---		
361	Pottery, china etc.								---	1.19	1.28	---	---		
362	Glass and products								---	2.09	1.81	---	---		
369	Non-metal products n.e.c.	2.542	2.790	1.870	1.090	3.896	5.997	4.168	4.447	2.38	2.74	---	---		
371	Iron and steel	2.091	2.475	1.190	1.673	6.631	8.602	12.134	8.504	8.67	8.99	---	---		
372	Non-ferrous metals								---	---	---	---	---		
381	Metal products	3.861	3.902	2.721	4.567	4.198	7.071	6.448	7.245	7.49	8.56	---	---		
382	Machinery n.e.c.	2.519	1.924	1.587	2.165	2.195	3.160	3.528	3.707	3.28	3.76	---	---		
										3.22	3.698				





## COUNTRY: BANGLADESH

## Employment (Average Number of Employees)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	26.76	22.54	---	18.18	27.47	35.39	45.92	47.06	41.52	36.50	---	---		
		UNIDO	26	23	12	18	27	36	40	47	42	36				
		NA1	18.571	15.516	7.561	12.849	20.333	26.357	33.074	33.939	30.270	25.906				
		NA2														
313	Beverages	0.42	0.59	---	0.42	0.65	0.63	0.46	0.67	0.77	0.78	---	---			
		0	1	0	0	1	1	0	1	1	1					
		0.154	0.242	0.172	0.209	0.256	0.258	0.226	0.299	0.309	0.303					
314	Tobacco	4.05	4.84	---	5.28	4.81	5.54	5.98	5.09	5.23	5.47	---	---			
		4	5	5	5	5	6	6	5	5	5					
		3.344	3.969	4.005	4.269	3.768	4.291	4.170	3.636	3.624	3.505					
321	Textiles	134.27	189.94	---	123.56	247.47	206.81	226.36	221.43	262.10	271.22	---	---			
		131	190	146	124	247	231	226	221	262	271					
		110.592	170.597	132.103	110.302	221.022	214.583	193.991	191.509	211.579	225.780					
322	Wearing apparel	0.54	0.62	---	0.58	0.50	0.93	1.05	0.58	0.42	0.49	---	---			
		0	1	1	1	0	1	1	1	1	0	0				
323	Leather and products	2.15	2.19	---	1.58	1.99	2.84	3.96	2.82	2.45	2.06	---	---			
		2	2	2	2	2	3	4	3	2	2					
		1.734	1.788	1.266	1.298	1.646	2.277	3.037	2.180	1.884	1.549					
324	Footwear	0.48	0.54	---	0.31	0.61	1.03	1.07	0.84	0.91	0.84	---	---			
		0	1	0	0	1	1	1	1	1	1					
		1.426	1.182	1.006	1.308	1.900	3.396	2.900	2.569	1.021	1.191					
331	Wood products	0.24	0.18	---	0.14	0.03	0.44	0.51	0.52	1.67	1.35	---	---			
		-	-	-	-	-	-	1	1	2	1					
		0.180	0.14	0.99	0.103	0.28	0.314	0.387	0.400	1.060	0.836					

## Notes for UN data:

Establishments with 10 or more workers

Twelve months ending 30 June of the year indicated

Manufacture of metal furniture and fixture is included in major group 332

COUNTRY: BANGLADESH

Employment (Average Number of Employees)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	0.57 1 0.448	0.58 1 0.467	--- 0	0.56 1 0.453	0.49 0 0.384	0.86 1 0.717	1.26 1 1.033	0.67 1 0.542	1.20 1 0.998	1.08 1 0.838	---	---		
341	Paper and products	3.19 3 2.263	2.25 2 1.533	--- 2	3.13 3 2.184	6.15 6 4.213	7.74 8 5.892	11.19 11 7.283	9.14 9 6.023	7.97 8 5.134	7.92 8 5.177	---	---		
342	Printing, publishing	2.56 3 1.922	2.64 3 2.028	--- 2	2.19 2 1.705	2.48 2 1.949	2.95 3 2.542	3.59 4 2.907	4.96 5 3.698	4.60 5 3.473	4.62 5 3.500	---	---		
351	Industrial chemicals	0.84 2 12.342	0.61 1 12.558	--- 1	2.38 2 8.276	3.93 4 17.247	7.25 5 21.461	6.44 6 19.745	4.62 5 20.271	5.03 5 18.962	5.30 5 19.272				
352	Other chemical products	13.86 13	15.27 15	--- 14	9.22 9	18.77 19	26.60 23	20.85 21	23.29 23	23.32 23	23.74 24	---	---		
353	Petroleum refineries	0.03 0	0.39 0	--- 0	--- 0	0.01 0	0.47 0	0.46 0	0.46 0	0.49 0	0.45 0	---	---		
354	Petroleum, coal products	--- 0.023	--- 0.162	--- ---	--- ---	--- 0.008	--- 0.333	--- 0.325	--- 0.249	--- 0.264	--- 0.141	---	---		
355	Rubber products	0.93 1 0.037	0.42 0 0.023	--- 1 0.030	0.77 1 0.027	1.34 1 ---	2.79 3 0.047	1.59 2 0.043	2.18 2 0.136	2.23 2 1.647	2.23 2 1.766				

## COUNTRY: BANGLADESH

## Employment (Average Number of Employees)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	0.17	0.23	---	0.24	0.28	0.29	0.40	0.44	0.63	0.64	---	---		
		0	0	0	0	0	0	0	0	1	1				
361	Pottery, china etc.	0.10	0.94	---	0.59	0.86	0.92	0.57	0.47	1.19	1.27	---	---		
		0	1	1	1	1	1	1	0	1	1				
362	Glass and products	1.32	1.00	---	0.23	1.54	2.73	1.50	2.02	2.06	1.80	---	---		
		1	1	1	0	2	3	1	2	2	2				
369	Non-metal products n.e.c.	1.19	0.85	---	0.27	1.50	2.36	2.10	1.95	2.37	2.73	---	---		
		1	1	1	0	1	2	2	2	2	3				
		1.968	2.189	1.425	0.960	3.139	4.822	3.643	3.415	4.136	4.614				
371	Iron and steel	2.13	2.48	---	1.67	6.63	8.45	12.13	8.50	8.65	8.66	---	---		
		2	2	1	2	7	9	12	8	9	9				
		1.601	1.968	0.918	1.308	5.292	6.759	9.182	6.275	6.413	6.373				
372	Non-ferrous metals	---	---	---	---	---	---	---	---	---	---	---	---		
381	Metal products	3.94	3.90	---	4.57	4.20	7.38	6.45	7.24	7.30	8.28	---	---		
		4	4	3	5	4	7	6	7	7	8				
		3.147	3.078	2.235	3.831	3.504	5.735	5.301	5.975	5.870	6.635				
382	Machinery n.e.c.	2.51	1.92	---	2.16	2.20	3.34	3.53	3.71	3.23	3.70	---	---		
		3	2	2	2	2	3	4	4	3	4				
		2.103	1.507	1.242	1.709	1.699	2.418	2.632	2.752	2.297	2.608				



## COUNTRY: BANGLADESH

## Gross Output (In Producers' Values)

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN	724.3	643.6	---	335	824	1498	2073	2730	3382	3494	---	---	
		UNIDO	722.998	643.598	192.999	335.099	823.998	1464.549	2072.994	2729.978	3381.991	3493.991			
		NA1	722.986	643.549	193.182	335.122	823.519	1464.551	2073.091	2730.384	3381.803	3494.008	3671.000	4776.000	5976.000
		NA2													
313	Beverages	15.5	15.7	---	13	53	55	70	78	105	134	---	---		
		15.500	15.700	5.000	13.000	52.600	61.499	69.999	78.000	105.000	134.000				
		15.478	45.662	5.291	13.016	52.887	61.499	70.481	78.130	104.561	134.216	170.000	176.000	240.000	
314	Tobacco	363.6	323.6	---	405	1072	1256	1653	1896	1817	2017	---	---		
		374.999	323.599	302.999	405.299	1071.997	1257.497	1652.996	1895.995	1816.995	2016.995				
		374.659	323.614	303.067	405.255	1072.308	1257.550	1652.555	1896.121	1817.257	2016.884	2325.000	2518.000	3190.000	
321	Textiles	1334.1	1528.2	---	1391	3477	4253	5025	5073	8227	8848	---	---		
		1391.996	1528.196	1297.997	1390.897	3476.991	4374.432	5024.986	5072.986	8226.978	8847.976				
		1392.189	1528.247	1298.440	1390.950	3476.727	4474.979	5025.276	5072.527	7929.460	8600.782	11759.000	13412.000	14402.000	
322	Wearing apparel	4.5	4.9	---	9	9	28	28	19	20	20	---	---		
		5.000	4.900	5.000	8.700	9.000	28.636	28.000	19.000	20.000	20.000				
323	Leather and products	108.0	69.0	---	73	135	225	732	674	860	1393	---	---		
		105.000	69.000	56.000	72.900	135.500	225.783	731.998	673.998	859.993	1392.996				
		105.286	69.029	56.311	73.360	135.186	225.783	731.524	673.966	859.982	1393.383	147.000	1391.000	1695.000	
324	Footwear	10.3	12.0	---	3	21	32	46	65	93	120	---	---		
		10.300	12.000	2.000	3.300	21.000	23.178	46.000	65.000	96.000	119.999				
		31.105	21.351	16.032	28.842	61.313	121.776	138.907	167.391	113.506	140.673	32.000	1570.000	1740.000	
331	Wood products	3.3	0.2	---	2	---	11	17	14	62	70	---	---		
		3.300	0.200	0.700	2.200	0.400	11.414	17.000	14.000	62.000	69.999				
		3.289	0.187	0.173	2.186	0.455	11.414	17.465	13.716	62.470	69.653	89.000	12.000	12.6000	

Notes for UN data:

Establishments with 10 or more workers

Twelve months ending 30 June of the year indicated

Manufacture of metal furniture and fixture is included in major group 332

COUNTRY: BANGLADESH

Gross Output (In Producers' Values)

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures	4.9	3.5	---	7	9	14	20	14	28	30	---	---			
		4.900	4.000	2.000	7.500	8.900	13.733	20.000	14.000	28.000	3.000					
		5.487	3.501	2.292	7.486	8.529	13.733	20.482	13.815	27.758	29.630	27.000	31.000	28.000		
341	Paper and products	70.2	49.7	---	57	171	352	484	461	590	714	---	---			
		117.000	49.700	29.000	56.900	171.000	343.813	483.999	460.999	589.999	713.998					
		117.134	49.738	29.433	56.932	170.860	348.813	483.744	460.950	590.158	714.396	1038.000	1323.000	1592.000		
342	Printing, publishing	23.6	18.5	---	24	48	64	83	138	155	196	---	---			
		20.000	19.000	15.000	24.000	48.000	73.399	83.000	133.000	15.000	195.999					
351	Industrial chemicals	20.3	9.9	---	42	258	374	664	573	674	1159	---	---			
		72.000	9.900	10.000	42.000	257.099	252.108	663.998	572.998	673.998	1158.997					
		336.730	288.872	250.270	328.876	815.451	1064.885	1870.688	1950.715	2281.221	3244.858	3669.000	4127.000	4704.000		
352	Other chemical products	266.4	278.9	---	287	557	1022	1026	1377	1607	2086	---	---			
		263.998	278.899	239.998	286.899	556.999	812.776	1205.997	1376.996	1606.996	2085.994					
353	Petroleum refineries	11.2	9.8	---	---	14	894	1411	1877	1770	1943	---	---			
		11.200	98.000	0	0	14.000	888.055	1410.996	1876.995	1769.986	1942.995					
354	Petroleum, coal products	---	---	---	---	---	---	---	---	---	---	---	---			
		11.245	97.681	---	---	13.800	888.056	1410.923	1876.786	1807.300	1943.449	2891.000	4635.000	5232.000		
355	Rubber products	15.9	4.6	---	17	31	63	63	91	100	150	---	---			
		15.900	4.600	9.000	17.200	30.600	70.510	63.000	91.000	99.999	149.999					
		0.229	0.152	0.138	0.292	---	0.548	0.470	7.918	99.934	149.702	177.000	209.000	174.000		

## COUNTRY: BANGLADESH

## Gross Output (In Producers' Values)

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
358	Plastic products n.e.c.	1.4 1.400	1.6 1.600	---	2.3 2.800	3.4 3.700	4.5 4.468	5.5 5.000	8.8 8.000	19.1 19.000	25.2 25.000	---	---			
361	Pottery, china etc.	0.6 0.600	8.0 8.000	---	8.8 8.100	12.1 12.000	18.1 19.031	10.1 10.000	9.9 90.000	35.3 35.000	48.4 48.000	---				
362	Glass and products	1.20 1.200	6.1 6.100	---	2.2 2.400	23.2 23.200	39.3 49.109	33.3 33.000	44.4 44.000	59.5 59.000	70.6 69.999	---	---			
369	Non-metal products n.e.c.	11.0 21.000 33.405	14.2 14.200 28.249	---	2.2 2.400 12.836	47.4 47.000 82.679	89.8 88.207 156.347	168.1 168.000 210.947	344.3 343.999 398.068	370.6 369.997 463.178	446.9 445.999 563.168	---	---	635.000	765.000	940.000
371	Iron and steel	166.3 164.000 164.189	103.8 103.800 103.827	---	58.5 57.800 57.783	606.6 605.998 606.407	741.7 852.391 852.392	1530.1 1529.988 1529.541	2017.2 2016.995 2016.881	1366.3 1365.996 1365.560	2568.4 2567.993 2568.236	---	---	2645.000	3117.000	3039.000
372	Non-ferrous metals	---	---	---	---	---	---	---	---	---	---	---	---			
381	Metal products	56.5 57.000 57.048	46.1 461.000 46.124	---	85.8 848.000 84.798	106.1 106.000 106.008	197.2 196.304 196.304	198.1 197.998 197.678	458.3 457.999 458.387	320.4 319.997 320.092	401.5 400.999 401.088	---	---	473.000	637.000	720.000
382	Machinery n.e.c.	29.6 40.000 39.616	18.4 184.000 18.390	---	23.2 23.300 23.324	29.2 29.000 29.137	62.6 59.678 59.678	81.1 81.000 81.027	130.1 129.999 129.566	110.2 109.999 108.765	148.3 148.000 147.511	---	---	397.000	745.000	918.000





COUNTRY: BANGLADESH

## Wages and Salaries

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	49.5	43.7	---	34.7	67.4	104.8	147.6	154.7	212.3	257.8	---	---		
		23.201	21.864	10.410	18.230	41.431	60.610	96.553	92.269	120.726	150.614				
313	Beverages	1.5	1.9	---	1.5	4.0	4.1	3.4	5.8	7.0	9.5	---	---		
		0.371	0.536	0.371	0.524	1.215	1.829	1.368	1.897	2.643	2.832				
314	Tobacco	12.8	15.0	---	19.5	31.8	36.4	42.3	46.3	49.8	64.8	---	---		
		8.890	11.537	10.648	13.781	19.973	26.814	26.414	29.075	30.371	38.854				
321	Textiles	271.8	363.6	---	329.4	946.5	918.2	1037.3	1036.7	1472.4	2090.3	---	---		
		228.617	224.576	273.476	266.990	771.781	822.713	851.361	831.783	1141.823	1694.394				
322	Wearing apparel	0.6	0.7	---	1.0	1.0	2.3	2.5	1.7	1.6	1.9	---	---		
323	Leather and products	4.4	4.1	---	4.1	6.5	10.3	16.1	13.4	12.4	12.9	---	---		
		3.023	2.948	2.378	3.097	5.056	7.824	11.601	9.772	8.849	8.782				
324	Footwear	1.9	1.5	---	0.6	3.3	4.8	6.3	6.5	9.7	10.3	---	---		
		2.141	1.706	1.894	3.066	6.770	12.407	12.243	11.869	6.573	9.416				
331	Wood products	0.4	---	---	0.2	0.1	1.6	1.9	1.7	11.0	11.8	---	---		
		0.298	0.024	0.105	0.118	0.062	1.092	1.311	1.166	5.686	6.272				

Notes for UN data:

Establishments with 10 or more workers

Twelve months ending 30 June of the year indicated

Manufacture of metal furniture and fixture is included in major group 332

## COUNTRY: BANGLADESH

## Wages and Salaries

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	0.9	0.8	---	1.5	1.6	2.5	5.0	2.5	7.0	7.7	---	---		
		0.691	0.737	0.411	1.141	1.197	1.982	3.623	1.893	5.221	5.832				
341	Paper and products	10.0	8.1	---	10.8	28.2	38.9	57.4	49.9	60.1	86.2	---	---		
		5.560	3.414	4.611	5.864	15.705	12.413	36.231	29.149	35.215	49.984				
342	Printing, publishing	6.5	6.3	---	---	10.4	9.8	13.4	29.6	33.4	39.6	---	---		
		4.336	4.557	3.788	5.632	7.805	9.842	9.713	21.819	23.127	27.463				
351	Industrial chemicals	3.1	1.4	---	12.1	32.6	42.3	44.6	35.4	45.8	66.5	---	---		
		25.505	25.505	21.003	23.764	75.887	88.714	101.971	112.334	124.292	164.670				
352	Other chemical products	34.8	38.5	---	31.4	80.9	133.2	118.5	153.2	195.3	232.2	---	---		
353	Petroleum refineries	0.2	4.1	---	---	0.2	8.6	5.8	10.2	13.2	15.7	---	---		
354	Petroleum, coal products	---	---	---	---	---	---	---	---	---	---	---	---		
		0.069	1.273	---	---	0.115	5.370	3.837	6.522	8.239	5.924				
355	Rubber products	1.6	0.7	---	2.7	5.6	13.6	9.0	10.4	11.8	19.8	---	---		
		0.042	0.030	0.055	0.054	---	0.065	0.071	0.362	8.563	14.239				

COUNTRY: BANGLADESH

## Wages and Salaries

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	0.2	0.3	---	0.4	0.7	0.8	1.3	1.5	2.8	3.6	---	---		
361	Pottery, china etc.	0.2	1.7	---	1.6	3.5	4.0	2.1	2.2	7.4	8.3	---	---		
362	Glass and products	2.3	1.2	---	0.4	5.5	7.9	4.9	9.1	10.0	14.0	---	---		
369	Non-metal products n.e.c.	3.0	2.2	---	0.7	6.3	8.5	10.5	12.2	17.2	23.4	---	---		
		3.331	3.185	2.569	2.147	10.819	14.535	11.862	15.952	23.466	30.731				
371	Iron and steel	5.8	6.4	---	6.1	35.8	43.3	95.2	72.8	74.4	116.1	---	---		
		3.526	3.752	1.570	3.765	27.501	33.529	67.457	51.086	50.348	79.350				
372	Non-ferrous metals	---	---	---	---	---	---	---	---	---	---	---	---		
381	Metal products	8.1	7.4	---	13.2	18.5	29.7	31.2	38.8	40.0	52.2	---	---		
		5.956	5.200	4.736	10.465	14.093	24.222	23.825	29.903	29.486	38.570				
382	Machinery n.e.c.	5.3	4.3	---	6.3	8.9	13.2	17.5	18.3	20.3	26.3	---	---		
		3.589	2.869	2.640	4.353	6.136	8.814	10.178	12.155	12.610	16.403				



## COUNTRY: BANGLADESH

## Value Added

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	239.9	234.4	---	107	336	540	656	840	1075	1071	---	---		
		UNIDO	253.998	234.399	55.000	107.500	335.999	540.935	655.998	845.998	1074.997	1070.997				
		NA1	253.704	234.345	54.929	107.499	336.274	540.936	656.297	846.296	1075.372	1070.814	1128.000	1432.000	1830.000	
		NA2														
313	Beverages		11.5	11.3	---	10	40	40	57	59	83	102	---	---		
			11.500	11.300	4.000	10.000	19.700	49.030	57.000	59.000	83.000	102.000				
			11.466	11.260	3.754	10.002	40.096	49.030	57.486	58.913	83.278	102.167	13.000	135.000	183.000	
314	Tobacco		225.1	184.5	---	273	893	991	1132	1328	1321	1369	---	---		
			230.999	185.000	213.999	272.899	892.998	989.328	1131.997	1327.996	1320.996	1368.996				
			231.310	184.502	213.548	272.933	892.535	989.327	1132.181	1328.439	1321.843	1369.843	1577.000	1709.000	2166.000	
321	Textiles		680.1	749.0	---	617	1508	1483	1844	1412	2993	3348	---	---		
			754.998	748.998	665.998	617.398	1507.996	1675.751	1643.996	1411.996	2992.992	3347.991				
			754.727	748.974	666.131	1507.872	1700.301	1644.344	1411.922	2926.572	3303.671	4516.000	5152.000	5534.000		
322	Wearing apparel		1.1	1.2	---	2	2	7	6	3	3	4	---	---		
			1.100	1.200	1.000	2.200	1.950	7.324	6.000	3.000	3.000	4.000				
323	Leather and products		14.3	13.8	---	15	22	41	106	60	123	287	---	---		
			15.000	13.800	14.000	14.600	22.000	42.809	106.000	60.000	123.000	286.999				
			14.536	13.773	14.088	15.097	21.709	42.809	106.114	59.907	122.890	286.828	291.000	285.000	349.000	
324	Footwear		6.2	2.4	---	1	9	11	13	18	27	50	---	---		
			6.200	2.400	1.000	1.200	9.400	9.944	13.000	18.000	27.000	50.000				
			12.270	4.963	5.906	11.545	22.249	54.517	88.922	44.453	29.328	54.501	51.000	85.000	65.000	
331	Wood products		1.0	0.6	---	4	---	3	5	4	25	42	---	---		
			1.000	0.400	0.300	0.900	0.200	2.437	5.000	4.000	25.000	42.000				
			0.998	0.063	0.038	0.881	0.148	2.437	4.704	4.136	24.688	41.857	52.000	63.000	70.000	

Notes for UN data:

Establishments with 10 or more workers

Twelve months ending 30 June of the year indicated

Manufacture of metal furniture and fixture is included in major group 332

## COUNTRY: BANGLADESH

## Value Added

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures	2.0	1.6	---	3	3	5	7	5	15	12	---	---			
		3.000	1.600	1.000	3.200	3.000	4.985	7.000	5.000	15.000	12.000					
		2.555	1.584	0.953	3.183	3.472	4.985	6.628	4.645	14.539	11.814	11.000	13.000	11.000		
341	Paper and products	25.9	21.0	---	33	30	75	67	167	203	238	---	---			
		73.000	21.000	9.000	33.200	30.000	88.385	67.000	167.000	202.999	237.999					
		72.787	20.979	9.302	33.228	30.370	88.385	66.783	167.208	202.443	237.649	347.000	441.000	529.000		
342	Printing, publishing	12.7	8.8	---	12	20	27	30	56	55	75	---	---			
		10.000	8.800	8.000	12.300	20.000	31.836	30.000	56.000	55.000	75.000					
		9.505	8.824	8.453	12.405	20.139	31.836	29.649	55.893	55.117	75.441	85.000	117.000	152.000		
351	Industrial chemicals	8.0	4.1	---	12	173	100	100	250	336	694	---	---			
		44.000	4.100	2.000	12.000	173.000	72.932	99.999	249.999	335.999	693.999					
		182.280	133.148	132.463	156.065	44.729	460.605	607.244	877.442	1001.975	1752.000	1971.000	2244.000			
352	Other chemical products	137.9	129.0	---	144	289	464	507	628	666	857	---	---			
		139.000	129.000	129.999	143.600	288.999	387.673	507.998	627.998	665.998	856.998					
353	Petroleum refineries	6.7	17.0	---	---	7	11	83	79	10	25	---	---			
		6.700	17.000			7.000	13.499	83.000	79.000	10.000	25.000					
354	Petroleum, coal products	---	---	---	---	---	---	---	---	13	---	---	---			
										13.000						
		6.710	17.008	---	---	6.588	13.499	83.315	78.673	23.138	24.784	37.000	59.000	62.000		
355	Rubber products	4.3	1.4	---	8	11	30	30	24	35	46	---	---			
		5.000	1.400	40.000	8.200	10.900	37.579	30.000	24.000	35.000	46.000					
		0.079	0.063	0.061	0.093	---	0.330	0.233	1.324	34.797	46.031	55.000	46.000	54.000		

## COUNTRY: BANGLADESH

## Value Added

Unit: MILLION TAKA

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
356	Plastic products n.e.c.	0.5 1.000	0.5 1.000	---	1 1.100	1 1.500	2 1.768	2 2.000	3 3.000	5 5.000	6 6.000	---	---			
361	Pottery, china etc.	0.3 0.300	4.7 4.700	---	5 5.000	8 8.000	9 9.697	2 2.000	2 2.000	14 14.000	26 26.000	---	---			
362	Glass and products	5.1 6.000	3.0 3.000	---	1 0.700	11 11.100	17 19.715	15 15.000	20 20.000	30 30.000	32 32.000	---	---			
369	Non-metal products n.e.c.	4.1 9.000 15.741	8.7 8.700 16.386	---	1 1.400 7.054	29 29.000 47.628	49 48.874 78.286	64 64.000 81.676	127 127.000 149.637	140 139.999 183.523	188 187.999 245.653	---	---	279.000	336.000	413.000
371	Iron and steel	39.9 41.000 40.994	28.8 28.800 28.815	---	20 20.400 20.424	349 348.999 349.098	206 271.482 271.482	292 291.999 291.644	907 906.998 906.939	339 338.999 339.037	1163 1162.997 1163.217	---	---	1199.000	1412.000	1378.000
372	Non-ferrous metals	---	---	---	---	---	---	---	---	---	---	---	---			
381	Metal products	15.5 16.000 15.805	18.5 19.000 18.514	---	31 31.000 30.993	39 39.000 39.357	71 70.072 70.072	65 65.000 64.998	263 262.999 262.578	91 91.000 91.482	87 87.000 88.055	---	---	104.000	142.000	162.000
382	Machinery n.e.c.	14.7 25.000 24.593	7.8 7.800 7.776	---	12 11.800 11.819	14 14.000 13.916	27 25.337 25.337	29 29.000 29.254	48 48.000 47.977	44 44.000 44.323	54 54.000 54.344	---	---	147.000	274.000	337.000





COUNTRY: BANGLADESH

Index Numbers of Industrial Production (1974=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	---	---	---	98	102	100	135	158	134	120	138	173		
		UNIDO	78	85	90	98	103	100	135	158	134	120	138	173		
		NA1					100.00	104.55	102.03	138.10	160.78	136.71	122.16	140.81	173.92	167.11
		NA2														
313	Beverages	---	---	---	88	100	100	98	129	165	151	148	167			
		70	76	81	88	100	100	99	129	165	151	148	167			
						100.00	113.26	113.73	112.00	146.73	187.94	172.21	168.02	187.43	204.83	
314	Tobacco	---	---	---	100	88	100	98	101	114	117	125	133			
		80	86	92	100	88	100	98	101	114	117	125	133			
						100.00	87.78	100.01	97.80	100.69	113.81	117.21	125.38	132.80	121.92	
321	Textiles	---	---	---	107	102	100	98	113	111	112	122	118			
		85	91	98	107	102	100	99	113	111	112	122	118			
						100.00	95.35	93.69	92.29	105.51	104.34	104.92	114.36	109.1	112.57	
322	Wearing apparel	---	---	---	---	---	---	---	---	---	---	---	---			
323	Leather and products	---	---	---	---	---	---	---	---	---	---	---	---			
324	Footwear	---	---	---	---	---	---	---	---	---	---	---	---			
331	Wood products	---	---	---	---	---	---	---	---	---	---	---	---			
		158	100	56	70	91	100	59	49	50	50	50	50			

Notes for UN data:

Twelve months beginning 1 July of the year started  
 352 (other chemical products): Matches only

COUNTRY: BANGLADESH

Index Numbers of Industrial Production (1974=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	---	---	---	---	---		---	---	---	---	---	---		
341	Paper and products	---	---	---	124	147	100	118	158	157	168	154	171		
		99	108	114	124	147	100	118	158	157	168	154	171		
						100.00	118.42	80.58	95.15	125.83	126.80	135.37	124.19	135.68	97.40
342	Printing, publishing	---	---	---	---	---		---	---	---	---	---	---		
351	Industrial chemicals	---	---	---	98	50	100	119	103	133	132	155	148		
		73	79	81	98	50	100	119	103	133	132	155	148		
						100.00	69.10	108.82	116.85	108.95	136.97	155.32	166.00	181.62	182.47
352	Other chemical products	---	---	---	95	91	100	108	117	139	157	167	184		
		73	80	88	95	91	100	108	117	139	157	167	184		
353	Petroleum refineries	---	---	---	40	92	100	118	114	130	132	131	122		
		29	32	36	40	92	100	118	114	130	132	131	122		
						100.00	232.03	253.31	297.69	289.61	329.74	334.04	332.97	312.69	228.67
354	Petroleum, coal products	---	---	---	---	---		---	---	---	---	---	---		
		100	100	100	100	100	100	100	100	100	100	100	100		
355	Rubber products	---	---	---	70	85	100	79	85	41	39	43	38		
		52	57	63	70	85	100	79	85	41	39	43	38		
						100.00	122.05	143.61	113.89	122.63	58.29	56.53	62.28	54.91	45.52

## COUNTRY: BANGLADESH

## Index Numbers of Industrial Production (1974=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	---	---	---	---	---	---	---	---	---	---	---	---	---	---
361	Pottery, china etc.	---	---	---	---	---	---	---	---	---	---	---	---	---	---
362	Glass and products	---	---	---	102	103	100	104	135	153	162	116	169		
		77	82	92	102	103	100	104	135	153	162	116	169		
						100.00	97.88	101.72	101.72	132.18	149.96	158.46	113.88	165.13	179.6
369	Non-metal products n.e.c.	---	---	---	33	81	100	196	213	202	212	216	206		
		25	27	30	33	81	100	196	213	202	212	216	206		
						100.00	244.57	300.92	589.67	641.80	608.29	638.19	650.48	615.41	579.6
371	Iron and steel	---	---	---	78	81	100	112	121	153	139	152	130		
		58	61	71	78	81	100	112	121	153	139	152	130		
						100.00	104.51	128.41	143.85	155.63	196.33	178.87	194.61	166.91	64.04
372	Non-ferrous metals	---	---	---	---	---	---	---	---	---	---	---	---		
		100	100	100	100	100	100	100	100	100	100	100	100		
381	Metal products	---	---	---	---	---	---	---	---	---	---	---	---		
382	Machinery n.e.c.	---	---	---	164	378	100	153	111	122	360	592	499		
		131	141	151	164	378	100	153	112	123	360	592	499		
						100.00	230.76	60.95	93.46	67.98	74.72	219.54	361.36	303.96	1959.91



**III. Convertors between ISIC and National Industrial Classification**

## ISIC-BSIC CODE CONVERTER

## BANGLADESH

ISIC-68 BSIC-80

ISIC-68	BSIC-80	DESCRIPTION
3	3	MANUFACTURE
31	31	MANUFACTURE OF FOOD, BEVERAGES AND TOBACCO
311	311-312	FOOD MANUFACTURING
3111	3111	SLAUGHTERING, PREPARING, CANNING AND PRESERVING OF MEAT
3112	3112	MANUFACTURE OF DAIRY PRODUCTS
3113	3113	PROCESSING, CANNING AND PRESERVING OF FRUITS & VEGETABLES
3114	3114	PROCESSING, CANNING & PRESERVING OF FISH & OTHER SEA FOODS
3115	3115	HYDROGENATED VEGETABLE OILS
3115	3116	EDIBLE OILS EXCEPT HYDROGENATED VEGETABLE OILS
3115	3117	MANUFACTURE OF INEDIBLE VEGETABLE AND ANIMAL OILS AND FATS N.E.C.
3116	3118	GRAIN MILLING EXCEPT RICE MILLING
3116	3119	RICE MILLING
3116	3121	GRAIN MILL PRODUCTS N.E.C.
3117	3122	MANUFACTURE OF BAKERY PRODUCTS
3118	3123	SUGAR FACTORIES AND REFINERIES
3118	3124	MANUFACTURE OF "GUR"
3119	3125	MANUFACTURE OF COCOA, CHOCOLATE & SUGAR CONFECTIONERY
3121	3126	PROCESSING OF TEA AND COFFEE
3121	3127	BLENDED OF TEA AND COFFEE
3121	3128	EDIBLE SALT REFINING
3121	3129	MANUFACTURE OF MISCELLANEOUS FOOD PRODUCTS N.E.C.
313	313	BEVERAGE INDUSTRIES
3131	3131	DISTILLING, RECTIFYING AND BLENDING OF SPIRITS
3132	3132	MANUFACTURE OF WINE
3133	3133	BREWERTIES AND MANUFACTURE OF MALT
3134	3134	MANUFACTURE OF SOFT DRINKS AND CARBONATED WATER INCLUDING BOTTLING OF NATURAL SPRING AND MINERAL WATER
314	314	TOBACCO MANUFACTURING
3140	3141	CIGARETTES (INCLUDING PIPE TOBACCO)
3140	3142	CIGARS AND CHIROOTS
3140	3143	'BIDIES'
3140	3144	TOBACCO STEAMING AND RE-DRYING
3140	3145	'ZARDA' AND 'QIVAM' (QI-MAM)
3140	3149	TOBACCO MANUFACTURING N.E.C.
32	32	TEXTILE, WEARING APPAREL AND LEATHER INDUSTRIES
321	320-321	MANUFACTURE OF TEXTILES
3211	3201	SPINNING, WEAVING AND FINISHING OF COTTON TEXTILES EXCEPT HANDLOOMS
3211	3202	SPINNING, WEAVING AND FINISHING OF WOOLLEN TEXTILES EXCEPT HANDLOOMS
3211	3203	SPINNING, WEAVING AND FINISHING OF JUTE TEXTILES EXCEPT HANDLOOMS
3211	3204	SPINNING, WEAVING AND FINISHING OF SILK, ART SILK AND SYNTHETIC TEXTILES EXCEPT HANDLOOMS
3211	3205	SPINNING, WEAVING AND FINISHING OF NARROW FABRICS'
3211	3206	SPINNING, WEAVING AND FINISHING OF TEXTILES HANDLOOMS ONLY
3211	3207	DYEING, BLEACHING AND FINISHING OF TEXTILES ONLY
3212	3212	MADE UP TEXTILE GOODS EXCEPT WEARING APPAREL
3213	3213	KNITTING MILLS
3214	3214	CARPETS AND RUGS
3215	3215	CORDAGE, ROPE AND TWINE
3215	3216	SPINNING AND THREAD BALL MANUFACTURING
3219	3219	MANUFACTURE OF TEXTILES N.E.C.
322	322	MANUFACTURE OF WEARING APPAREL EXCEPT FOOTWEAR

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35	350	MANUFACTURE OF DRUGS AND PHARMACEUTICAL PRODUCTS
35	3501	MEDICAL AND PHARMACEUTICAL PREPARATION INCLUDING BASIC DRUGS (ALLOPATHIC)
35	3502	'JNANI' MEDICINES
35	3503	'AYURU-VEDIC' MEDICINES
35	3504	HOMOEOPATHIC AND BIO-CHEMIC MEDICINES
35	3509	MEDICINAL AND PHARMACEUTICAL PREPARATION N.E.C.
351	351	MANUFACTURE OF INDUSTRIAL CHEMICALS
3511	3511	ACIDS, ALKALIES, SALTS (EXCLUDING COMMON SALT) AND INTER-MEDIATES
3512	3512	DYES, COLOURS AND PIGMENTS
3513	3513	COMPRESSED, LIQUIFIED AND SOLIDIFIED GASES
3513	3514	MANUFACTURE OF FERTILIZERS
3513	3515	MANUFACTURE OF PESTICIDES, INSECTICIDES FUNGICIDES AND HERBICIDES
3513	3516	MANUFACTURE OF SYNTHETIC RESINS, PLASTIC MATERIALS AND MAN-MADE FIBRES EXCEPT GLASS
3513	3519	MANUFACTURE OF INDUSTRIAL CHEMICALS N.E.C.
352	352	MANUFACTURE OF OTHER CHEMICAL PRODUCTS
3521	3521	MANUFACTURE OF PAINTS VARNISHES AND LACQUERS INCLUDING AL-LIED PRODUCTS
3522	3522	MANUFACTURE OF PERFUMES AND COSMETICS
3523	3523	MANUFACTURE OF SOAP (ALL KINDS) AND DETERGENTS
3523	3524	MANUFACTURE OF POLISHES AND WAXES
3523	3525	MANUFACTURE OF MATCHES
3523	3526	MANUFACTURE OF INK (ALL KINDS)
3523	3527	MANUFACTURE OF CANDLES
3523	3528	MANUFACTURE OF TAN, ALKATRA
3529	3529	MANUFACTURE OF CHEMICAL PRODUCTS N.E.C.
353	353-3530	PETROLEUM REFINING
354	354	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL
3540	3541	PETROLEUM PRODUCTS
3540	3542	COAL PRODUCTS AND BY PRODUCTS
355	355	MANUFACTURE OF RUBBER PRODUCTS
3551	3551	MANUFACTURE OF TYRES AND TUBES
3551	3552	REBUILDING AND RETREADING TYRES AND TUBES
3559	3559	MANUFACTURE OF RUBBER PRODUCTS N.E.C.
356	356	MANUFACTURE OF PLASTIC PRODUCTS N.E.C.
3560	3561	PLASTIC FOOTWEAR
3560	3569	MANUFACTURE OF MISCELLANEOUS PLASTIC PRODUCTS N.E.C.
36	36	MANUFACTURE OF NON-METALLIC MINERAL PRODUCTS EXCEPT PETRO-LEUM AND COAL.
361	361	MANUFACTURE OF POTTERY, CHINA AND CARTHENWARE
3610	3611	EARTHENWARE
3610	3612	CHINA AND CERAMIC
3610	3619	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE N.E.C.
362	362	MANUFACTURE OF GLASS AND GLASS PRODUCTS
362	3621	MANUFACTURE OF GLASS
362	3622	MANUFACTURE OF GLASS PRODUCTS
369	369	MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS
3691	3691	MANUFACTURE OF BRICKS, TILES AND OTHER STRUCTURAL CLAY PRO-DUCTS
3692	3692	MANUFACTURE OF CEMENT
3692	3693	MANUFACTURE OF CEMENT PRODUCTS
3692	3694	MANUFACTURE OF LIME AND PLASTER AND THEIR PRODUCTS



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3220	3221	READY MADE GARMENTS
3220	3222	HATS AND CAPS
3220	3229	WEAVING APPAREL N.E.C. EXCEPT FOOTWEAR
323	323	MANUFACTURE OF LEATHER AND LEATHER PRODUCTS, LEATHER SUBSTITUTES AND FUR EXCEPT FOOTWEAR AND WEARING APPAREL
3231	3231	TANNING AND LEATHER FINISHING
3232	3232	FUR DRESSING AND DYEING
3233	3233	MANUFACTURE OF PRODUCTS OF LEATHER AND LEATHER SUBSTITUTES EXCEPT FOOTWEAR AND WEARING APPAREL
324	324	MANUFACTURE OF FOOTWEAR EXCEPT VULCANISED OR MOULDED RUBBER OR PLASTIC FOOTWEAR
3240	3241	LEATHER FOOTWEAR
3240	3249	OTHER FOOTWEAR N.E.C. EXCEPT RUBBER AND PLASTIC
324	325	SPINNING, PRESSING AND BAILING OF FIBRES
3240	3251	COTTON
3240	3252	WOOL
3240	3253	JUTE
3240	3259	SPINNING, PRESSING AND BAILING OF FIBRES N.E.C.
33	33	MANUFACTURE OF WOOD AND WOOD PRODUCTS INCLUDING FURNITURE
331	331	MANUFACTURE OF WOOD AND WOOD AND CORK PRODUCTS EXCEPT FURNITURE
3311	3311	SAW AND PLANING MILLS.
3312	3312	PLYWOOD AND PLYWOOD PRODUCTS
3312	3313	WOOD ARTICLES
3312	3314	HARD BEARD AND ITS PRODUCTS
3312	3315	BAMBOO AND CANE PRODUCTS
3319	3316	CORK AND ITS PRODUCTS
3319	3319	MANUFACTURE OF WOOD AND WOOD AND CORK PRODUCTION N.E.C. EXCEPT FURNITURE
332	332	MANUFACTURE OF FURNITURE AND FIXTURES EXCEPT PRIMARILY OF METAL
3320	3321	WOODEN FURNITURE
3320	3322	FIXTURES
3320	3323	CANE FURNITURE
3320	3324	'CHIKS'
3320	3329	MANUFACTURE OF FURNITURE AND FIXTURES N.E.C. EXCEPT PRIMARILY OF METAL
34	34	MANUFACTURE OF PAPER AND PAPER PRODUCTS, PRINTING AND PUBLISHING
341	341	MANUFACTURE OF PAPER AND PAPER PRODUCTS
3411	3411	MANUFACTURE OF PULP AND PAPER
3412	3412	MANUFACTURE OF PAPER BOARD
3412	3413	MANUFACTURE OF ARTICLES OF PULP, PAPER AND PAPER BOARD
3419	3419	MANUFACTURE OF PAPER AND PAPER PRODUCTS N.E.C.
342	342	PRINTING PUBLISHING AND ALLIED INDUSTRIES
3420	3421	PRINTING AND PUBLISHING OF NEWSPAPERS
3420	3422	PRINTING AND PUBLISHING OF BOOKS PERIODICALS, MAPS, ATLASSES, DIRECTORIES ETC
3420	3423	COMMERCIAL LITHOGRAPHING AND JOB PRINTING
3420	3424	MANUFACTURE OF PRINTED CARDS AND STATIONERY
3420	3425	BOOK BINDING AND OTHER ACTIVITIES RELATED TO BINDING
3420	3426	METAL SHEETS PRINTING
3420	3429	PRINTING, PUBLISHING AND ALLIED INDUSTRIES N.E.C.
35	35	MANUFACTURE OF CHEMICALS AND CHEMICAL PETROLEUM, COAL, RUBBER AND PLASTIC PRODUCTS

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3692	3695	MANUFACTURE OF REFRACTORIES
3699	3699	MANUFACTURE OF NON-METALLIC MINERAL PRODUCTS N.E.C.
37	37	BASIC METAL INDUSTRIES
371	371	IRON AND STEEL BASIC INDUSTRIES
3710	3711	IRON AND STEEL MILLS
3710	3712	IRON AND STEEL FOUNDRIES
3710	3713	IRON AND STEEL RE-ROLLING MILLS
3710	3719	IRON AND STEEL BASIC INDUSTRIES N.E.C.
372	372	NON-FERROUS METAL BASIC INDUSTRIES
3720	3721	PRODUCTION OF BASIC ALUMINIUM AND ALUMINIUM ALLOYS
3720	3722	PRODUCTION OF BASIC COPPER AND COPPER ALLOYS
3720	3729	PRODUCTION OF OTHER BASIC NON-FERROUS METALS AND ALLOYS
38	38	MANUFACTURE OF FABRICATED METAL PRODUCTS MACHINERY AND EQUIPMENT
381	380-391	MANUFACTURE OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY AND EQUIPMENT
3811	3801	CUTLERY
3811	3802	HAND AND EDGE TOOLS
3811	3803	RAZOR, SAFETY RAZORS AND RAZOR BLADES
3812	3804	FURNITURE AND FIXTURES PRIMARILY OF METAL
3813	3805	STRUCTURAL METAL PRODUCTS
3813	3806	METAL STAMPING, COATING, ELECTROPLATING, GALVANISING AND ENAMELLING, ETC.
3813	3807	HEATING, COOKING AND LIGHTING EQUIPMENT
3813	3808	WIRE PRODUCTS
3813	3809	UTENSILS-ALUMINIUM
3813	3811	UTENSILS-COPPER AND BRASS
3813	3812	UTENSILS-STEEL
3813	3813	METAL BARRELS AND DRUMS
3813	3814	TIN CANS AND TINWARE
3813	3815	METAL TRUCKS
3813	3816	BOLTS, NUTS, RIVETS AND WASHERS
3813	3817	PLUMBING EQUIPMENT
3813	3818	SAFES AND VAULTS
3819	3819	MANUFACTURE OF FABRICATED METAL PRODUCTS N.E.C. EXCEPT MACHINERY AND EQUIPMENT
382	382	MANUFACTURE OF MACHINERY EXCEPT ELECTRICAL
3821	3821	MANUFACTURE OF ENGINES AND TURBINES
3822	3822	MANUFACTURE OF AGRICULTURAL MACHINERY AND EQUIPMENT EXCLUDING AGRICULTURAL HAND TOOLS
3823	3823	MANUFACTURE OF METAL AND WOOD WORKING MACHINERY
3824	3824	MANUFACTURE OF TEXTILE MACHINERY
3825	3825	MANUFACTURE OF INDUSTRIAL MACHINERY EXCEPT AGRICULTURAL METAL AND WOOD WORKING AND TEXTILE MACHINERY
3825	3826	MANUFACTURE OF OFFICE, COMPUTING AND ACCOUNTING MACHINES
3825	3827	MANUFACTURE OF SEWING MACHINES
3829	3829	MACHINERY AND EQUIPMENT N.E.C. EXCEPT ELECTRICAL
383	383	MANUFACTURE OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES AND SUPPLIES
3831	3831	MANUFACTURE OF ELECTRICAL INDUSTRIAL MACHINERY AND APPARATUS
3832	3832	MANUFACTURE OF RADIO, TELEVISION AND COMMUNICATION EQUIPMENT AND APPARATUS
3833	3833	MANUFACTURE OF ELECTRICAL APPLIANCES AND HOUSEWARES
3833	3834	INSULATED WIRES AND CABLES
3833	3835	MANUFACTURE OF ELECTRIC BULBS AND TUBES

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3833	3836	BATTERIES
3839	3839	MANUFACTURE OF ELECTRICAL APPARATUS AND SUPPLIES N.E.C.
384	384	MANUFACTURE OF TRANSPORT EQUIPMENT
3841	3841	SHIP BUILDING AND REPAIRING (MECHANICALLY/PROPELLED)
3841	3842	BOAT BUILDING AND REPAIRING (NON-MECHANISED)
3842	3843	MANUFACTURE OF RAIL ROAD EQUIPMENT
3843	3844	MANUFACTURE OF MOTOR VEHICLES
3844	3845	MANUFACTURE OF MOTOR CYCLES, AUTO RICKSHAWS
3844	3846	MANUFACTURE OF CYCLES AND PEDICABS
3845	3847	MANUFACTURE OF AIRCRAFT
3849	3848	MANUFACTURE OF ANIMAL AND HAND DRAWN CARTS AND CARRIAGES
3849	3849	MANUFACTURE OF TRANSPORTS EQUIPMENT N.E.C.
385	385	MANUFACTURE OF SCIENTIFIC, PRECISION AND MEASURING INSTRUMENTS AND EQUIPMENT
3851	3851	MANUFACTURE OF SURGICAL, MEDICAL AND DENTAL INSTRUMENTS, EQUIPMENT AND SUPPLIES
3853	3852	MANUFACTURE OF WATCHES AND CLOCKS
3851	3853	MANUFACTURE OF WEIGHTS AND SCALES
3851	3859	MANUFACTURE OF SCIENTIFIC, PRECISION AND MEASURING INSTRUMENTS AND EQUIPMENT N.E.C.
3852	386	MANUFACTURE OF PHOTOGRAPHIC AND OPTICAL GOODS
3852	3861	MANUFACTURE OF PHOTOGRAPHIC GOODS
3852	3862	MANUFACTURE OF OPTICAL GOODS
39	39	OTHER MANUFACTURING INDUSTRIES AND HANDICRAFTS
3909	391	HANDICRAFTS
3909	3911	WOOD, CANE AND BAMBOO HANDICRAFTS
3909	3912	PAPER AND PAPER PRODUCTS HANDICRAFTS
3909	3913	RUBBER AND PLASTIC HANDICRAFTS
3909	3914	CHINA, CERAMIC AND GLASS HANDICRAFTS
3909	3915	METAL HANDICRAFTS
3909	3919	HANDICRAFTS N.E.C.
3903	392-3920	MANUFACTURE OF SPORTS AND ATHLETIC GOODS
39	393-394	OTHER MANUFACTURING INDUSTRIES
3901	3931	JEWELLERY-PRECIOUS METAL
3909	3932	IMITATION JEWELLERY
3902	3933	MANUFACTURE OF MUSICAL INSTRUMENTS
3909	3934	TOYS-MECHANICAL
3909	3935	TOYS-NON-MECHANICAL
3909	3936	PENCILS
3909	3937	PENS AND OTHER OFFICE ARTICLES SUPPLIES
3909	3938	UMBRELLAS AND WALKING STICKS
3909	3939	BUTTONS, STUDS, HOOKS AND FASTENERS
3909	3941	SIGNS AND ADVERTISING DISPLAYS
3909	3942	BONE CRUSHING
3909	3943	BANGLES (ALL KINDS EXCEPT OF PRECIOUS METAL)
3909	3949	OTHER MANUFACTURING INDUSTRIES N.E.C.

#### IV. Commodity Balance Sheets

##### 1. Explanatory Notes

##### 2. Statistical Tables

1. Ice
2. Shrimps and Frog Legs
3. Soyabean Oil
4. Mustard Oil
5. Atta, Maida and Suji (Wheat Flour)
6. Bread and Biscuit
7. Molasses
8. Sugar
9. Alcoholic Beverages
10. Soft Drink
11. Tea (Black)
12. Sea Salt
13. Cigarettes
14. Vegetable Ghee
15. Cotton Yarn
16. Jute Fabrics, Woven
17. Synthetic Yarn
18. Other Textiles
19. Jute Pressing
20. Cotton Cloth
21. Carpet Backing
22. Newsprint Paper
23. Other Printing, Writing Paper
24. Packing and Others
25. D. D. T.
26. Chlorine
27. Hydro Acid
28. Caustic Soda
29. Sulphuric Acid
30. T. S. P.
31. Chemical Nitrogenous Fertilizers
32. Paints and Varnishes
33. Pharmaceutical Products
34. Matches
35. Petroleum Products
36. Cycle Tyres and Tubes
37. Glass Sheet
38. Cement
39. Iron, Steel Heavy Plates, etc.
40. Billet (2'sq)
41. Steel Ingot
42. M. S. Rod
43. Diesel Engine
44. Lathe Machine
45. Pumps for Liquids
46. Electric Power Machinery
47. Television Receivers
48. Radio Receivers

49. Domestic Electric Equipment, nes.
50. Electric Lamps
51. Cable Wire
52. Special Purpose Trucks, etc.
53. Car
54. Truck
55. Motor Cycle
56. Bi-cycle

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years for trade data and fiscal years for production.

QUANTITY UNIT CODEAppendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL*	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG*	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL*	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS*	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX*	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN*	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT*	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS	SMM	SQUARE METRES		
FLN	FLASKS	SMN	SQUARE METRES		
FTN	FEET	SPM	NUMBER OF SPINDLES		
GIN	IMPERIAL GALLONS	STN	SHORT TONS		
GPN	PROOF GALLONS				
GRN	GROSS				

Note: The codes put on "\*" are prepared by IDE.

CUURENCY UNIT CODE

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHILIPPINES
S\$	SD	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA



Source No.

1. UN, Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics.
2. UN, Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics.
3. ESCAP, Statistical Yearbook.
4. AIDX(TInternational Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base
7. UNIDO, Commodity Production Data Base
8. UN, Yearbook of International Trade Statistics.
9. UN, Statistical Yearbook.
- 10.
11. Bangladesh Bureau of Statistics, Statistical Year book 1980, 1982

Country: Bangladesh

Commodity: Soft drink

ISIC Code	313404								Note:
NSIC Code									
SITC Code	111								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	498				-		-	-	
1973	1428				-		-	-	
1974	1152				-		-	-	
1975	1134				-		-	-	
1976	975				21990		-	-	
1977	918				19824		-	-	
1978	1247				29329		-	28	
1979	1667				39904		-	94	
1980	1405				40099		-	50	
1981	1544				49085		-	129	
1982	1604				56924		-	155	
1983	1136				44763		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Matches

ISIC Code	3529								Note:
NSIC Code									
SITC Code	89932								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000PN				1000TK		1000\$	1000\$	
1970	12964				-		-	-	
1971	10288				-		-	-	
1972	6338				-		-	-	
1973	5914				-		-	-	
1974	6207				-		-	-	
1975	6227				118313		-	-	
1976	6845				130055		-	-	
1977	7564				121024		-	-	
1978	8045				152855		-	-	
1979	9120				220540		-	-	
1980	9341				214360		-	-	
1981	10083				265413		-	-	
1982	11843				370476		-	-	
1983	12281				462892		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Glass sheet

ISIC Code	302001								Note:
NSIC Code									
SITC Code	6644/6645								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SFN				1000TK		1000\$	1000\$	
1970	6230				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	7247				-		-	-	
1974	5712				-		-	-	
1975	5730				11478		-	-	
1976	5591				16778		-	-	
1977	5810				17430		-	-	
1978	7550				22650		-	6	
1979	8373				33492		-	-	
1980	9052				40455		-	29	
1981	6705				38242		-	4	
1982	9432				65732		-	25	
1983	10260				89173		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Sea salt

ISIC Code									Note: a/ 1000KGM=37.5kg
NSIC Code									
SITC Code	2703								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000KGM	a/			1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	21352				-		-	-	
1973	19088				-		-	-	
1974	4500				-		-	-	
1975	20409				-		-	-	
1976	15338				-		-	-	
1977	12107				-		-	-	
1978	22042				-		-	1480	
1979	22228				-		-	30	
1980	12416				-		-	-	
1981	7399				-		-	1628	
1982	15400				-		-	932	
1983	-				-		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Alcoholic Beverages

ISIC Code	313204/3133								Note: a/ 'LM=4.551
NSIC Code									
SITC Code	112								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	LH a/				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	214009				-		-	-	
1973	524341				-		-	-	
1974	608519				-		-	-	
1975	704765				-		-	-	
1976	761930				-		-	-	
1977	895780				-		-	-	
1978	1129396				-		-	359	
1979	1172562				-		-	315	
1980	1224616				-		-	289	
1981	1244390				-		-	2232	
1982	1435185				-		-	294	
1983	-				-		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Paints and varnishes

ISIC Code	352104A	352107A							Note:
NSIC Code									
SITC Code	5333								
NSTC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	GIN				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	232629				25538		-	-	
1975	22343				33524		-	-	
1976	202361				52982		-	-	
1977	259703				56115		-	-	
1978	224393				74700		-	951	
1979	462751				91484		-	1338	
1980	479654				114208		-	1504	
1981	424370				117278		-	12825	
1982	433179				123295		-	1320	
1983	405938				124303		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Pharmaceutical products

ISIC Code	3522								Note: a/ 1LM=4.551
NSIC Code									
SITC Code	54								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	LM a/				1000TK		1000\$	1000\$	
1970	29543				-		-	-	
1971	23798				-		-	-	
1972	18131				-		-	-	
1973	35785				-		-	-	
1974	44798				250700		-	-	
1975	27298				331645		-	-	
1976	35943				440770		-	-	
1977	42246				486947		-	-	
1978	56962				524975		21	18841	
1979	142161				708750		20	20562	
1980	99169				989216		30	24734	
1981	62316				1146442		82	26977	
1982	77740				-		108	21052	
1983	-				-		-	-	
1984	-				-		-	-	



Country: Bangladesh

Commodity: Bi-cycle

ISIC Code	384404								Note:
NSIC Code									
SITC Code	73311								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	18133				10258		-	-	
1975	28495				15901		-	-	
1976	28926				21099		-	-	
1977	39758				27547		-	-	
1978	40691				28466		-	720	
1979	43227				30482		-	2846	
1980	45619				30888		-	1179	
1981	28214				21634		-	1691	
1982	30194				2029		-	688	
1983	13348				14149		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Truck

ISIC Code		384315/384316							Note:
NSIC Code									
SITC Code		7323							
NSTC Code									
		Quantity				Value			
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	123				-		-	-	
1973	634				-		-	-	
1974	2022				-		-	-	
1975	956				-		-	-	
1976	377				-		-	-	
1977	386				-		-	-	
1978	416				-		-	1365	
1979	538				-		8	4233	
1980	793				159937		-	2837	
1981	1297				253828		1	2727	
1982	1051				251992		13	1070	
1983	-				-		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Electric power machinery

SIC Code		383107/383110							Note:
NSIC Code									
SITC Code		7221							
NSTC Code									
Source		Quantity				Value			
		11				11		4	4
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import
		NOM				1000TK		1000\$	1000\$
1970		-				-		-	-
1971		-				-		-	-
1972		-				-		-	-
1973		-				-		-	-
1974		1336				4322		-	-
1975		1376				8734		-	-
1976		738				4602		-	-
1977		823				4630		-	-
1978		489				4436		33	13755
1979		517				2122		30	42646
1980		1128				4961		-	45303
1981		1186				6776		44	22861
1982		1006				6773		921	30648
1983		2495				18194		-	-
1984		-				-		-	-

Country: BangladeshCommodity: Diesel engine

ISIC Code	382104								Note:
NSIC Code									
SITC Code	7115								
NSTC Code									
Source	Quantity				Value				
	11 Production	Shipment	Export	Import	11 Production	Shipment	4 Export	4 Import	
Unit	NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	1212				15300		-	-	
1975	5006				75700		-	-	
1976	1				-		-	-	
1977	1118				5499		-	-	
1978	24				274		-	15516	
1979	92				1499		3	14176	
1980	2406				32351		-	47628	
1981	8586				75435		55	30262	
1982	1785				58769		-	43080	
1983	8462				132912		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Lathe machine

ISIC Code	382313								Note:
NSIC Code									
SITC Code	7151/71952								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	8				214		-	-	
1975	3				79		-	-	
1976	18				2202		-	-	
1977	29				3397		-	-	
1978	16				1702		-	3067	
1979	13				3018		59	4630	
1980	7				1818		208	4996	
1981	2				494		11	4089	
1982	1				339		-	4639	
1983	2				394		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: H. S. rod

ISIC Code	371028								Note:
NSIC Code									
SITC Code	673								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	26457				122331		-	-	
1975	35113				233515		-	-	
1976	49106				339525		-	-	
1977	49223				228831		-	-	
1978	57207				377406		-	2029	
1979	61893				466355		-	3326	
1980	62230				508501		-	8539	
1981	67459				663244		-	8189	
1982	60539				692735		-	6234	
1983	18008				241531		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Steel ingot

ISIC Code	371022								Note:
NSIC Code									
SITC Code	672								
NSTC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TN				1000TK		1000\$	1000\$	
1970	67000				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	66881				-		-	-	
1974	73652				-		-	-	
1975	76390				-		-	-	
1976	90409				-		-	-	
1977	107715				365006		-	-	
1978	116919				408038		-	9577	
1979	126371				961489		-	21610	
1980	137557				683103		-	20888	
1981	139343				791868		-	31879	
1982	106977				109475		-	13062	
1983	446635				376022		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Cement

ISIC Code	369204								Note:
NSIC Code									
SITC Code	6612								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH				1000TK		1000\$	1000\$	
1970	53000				-		-	-	
1971	63000				-		-	-	
1972	23000				-		-	-	
1973	31100				-		-	-	
1974	52175				30108		-	-	
1975	126700				78158		-	-	
1976	157007				136763		-	-	
1977	307668				305441		-	-	
1978	338614				372472		-	28088	
1979	322473				372588		-	20925	
1980	335964				432983		-	68253	
1981	344830				558727		-	17767	
1982	326247				580769		-	53945	
1983	306688				593008		-	-	
1984	-				-		-	-	



Country: BangladeshCommodity: Petroleum pr

ISIC Code	3530								Note:
NSIC Code									
SITC Code	332								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH				1000TK		1000\$	1000\$	
1970	767490				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	697975				-		-	-	
1974	341312				-		-	-	
1975	772701				-		-	-	
1976	847023				-		-	-	
1977	1075158				-		-	-	
1978	1017232				-		6694	58144	
1979	1031975				-		-	92931	
1980	1180774				-		7	115044	
1981	1207671				5101015		11	109363	
1982	1134944				3965771		15011	190588	
1983	918982				6689781		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: D. D. T.

ISIC Code	3511								Note:
NSIC Code									
SITC Code	5992								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production TH	Shipment	Export	Import	Production 1000TR	Shipment	Export 1000\$	Import 1000\$	
1970	1254				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	154				-		-	-	
1974	259				-		-	-	
1975	251				7352		-	-	
1976	139				7738		-	-	
1977	381				11594		-	-	
1978	438				17622		-	5343	
1979	455				17720		-	6748	
1980	233				9282		-	6701	
1981	1000				48400		5	7244	
1982	702				40816		4013	7805	
1983	405				29775		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Chlorine

ISIC Code	351145								Note:
NSIC Code									
SITC Code	51321								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production TM	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	2943				-		-	-	
1971	2338				-		-	-	
1972	1767				-		-	-	
1973	2699				-		-	-	
1974	2267				8735		-	-	
1975	8087				22516		-	-	
1976	3513				33753		-	-	
1977	2906				24887		-	-	
1978	3747				35784		-	-	
1979	3841				-		-	2	
1980	3282				10968		-	-	
1981	4007				18360		-	-	
1982	4105				20201		-	-	
1983	3897				22947		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Hydro acid

ISIC Code		351140							Note:
NSIC Code									
SITC Code		51331							
NSTC Code									
Source		Quantity				Value			
		11				11		4	4
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import
		TN				1000TK		1000\$	1000\$
1970		-				-		-	-
1971		-				-		-	-
1972		270				-		-	-
1973		1193				-		-	-
1974		1872				502		-	-
1975		1586				1570		-	-
1976		1660				1992		-	-
1977		1446				1627		-	-
1978		1688				3238		-	79
1979		1843				-		-	30
1980		2188				5266		-	45
1981		2494				5804		-	2
1982		1047				2498		-	2
1983		1377				3940		-	-
1984		-				-		-	-

Country: BangladeshCommodity: Sulphuric acid

ISIC Code	3512								Note:
NSIC Code									
SITC Code	51333								
NSIC Code									
Source	Quantity				Value				
	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH				1000TK		1000\$	1000\$	
1970	6466				-		-	-	
1971	4328				-		-	-	
1972	352				-		-	-	
1973	5712				-		-	-	
1974	8410				-		-	-	
1975	5407				-		-	-	
1976	4028				4568		-	-	
1977	3205				2948		-	-	
1978	4507				4146		-	10	
1979	12318				-		-	6	
1980	4127				-		-	5	
1981	3786				-		-	978	
1982	2065				-		-	-	
1983	3149				-		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: T. S. P.

ISIC Code	3512								Note:
NSIC Code									
SITC Code	5612								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	-				-		-	-	
1975	32337				119047		-	-	
1976	48190				185724		-	-	
1977	47222				205410		-	-	
1978	37667				103851		-	26025	
1979	57120				252377		-	24432	
1980	66443				323335		-	47073	
1981	70116				304001		-	03084	
1982	56973				279614		-	38430	
1983	69761				407624		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Chem nitrogenous fertilizers

ISIC Code	3512								Note:
NSIC Code									
SITC Code	5611								
NSIC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production TH	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	94500				-		-	-	
1971	51200				-		-	-	
1972	47000				-		-	-	
1973	212208				-		-	-	
1974	284719				216105		-	-	
1975	72861				157018		-	-	
1976	281251				270910		-	-	
1977	296457				497610		-	-	
1978	218019				371887		-	59126	
1979	295311				520778		-	53794	
1980	374707				671792		3334	60410	
1981	345440				782514		2818	31114	
1982	351333				906778		1505	40590	
1983	377237				569510		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Cotton cloth

ISIC Code	321128								Note:
NSIC Code									
SITC Code	652								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SYN				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	23397				-		-	-	
1973	58435				-		-	-	
1974	79378				433404		-	-	
1975	84626				467058		-	-	
1976	74475				393973		-	-	
1977	68124				380813		-	-	
1978	82552				607583		341	12583	
1979	85012				626538		150	15198	
1980	88581				674101		7	20212	
1981	85972				771168		-	29351	
1982	72497				668030		27	14483	
1983	65471				-		-	-	
1984	-				-		-	-	



Country: BangladeshCommodity: Newsprint paper

ISIC Code	341119								Note:
NSIC Code									
SITC Code	6411								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN				1000TK		1000\$	1000\$	
1970	35740				-		-	-	
1971	29625				-		-	-	
1972	16056				-		-	-	
1973	27495				-		-	-	
1974	26464				54780		-	-	
1975	28782				77452		-	-	
1976	20045				81703		-	-	
1977	14588				71737		-	-	
1978	27532				153192		4020	3	
1979	33606				198770		7283	-	
1980	38116				264591		5198	-	
1981	30414				300950		3164	-	
1982	38647				390744		5222	-	
1983	26319				292310		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Packing and others

ISIC Code	341125/341128								Note:
NSIC Code									
SITC Code	6413-6415/6417								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM				1000TK		1000\$	1000\$	
1970	10518				-		-	-	
1971	7851				-		-	-	
1972	4966				-		-	-	
1973	4078				-		-	-	
1974	4192				1404		-	-	
1975	5996				38140		-	-	
1976	5612				42208		-	-	
1977	7105				62154		-	-	
1978	7702				72591		331	10549	
1979	4948				48197		473	12189	
1980	6889				87594		1724	22394	
1981	7005				136464		281	21175	
1982	6937				154745		527	17715	
1983	4783				133068		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Others

Source	Quantity				Value				Note:
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM				1000TK		1000\$	1000\$	
1970	20567				-		-	-	
1971	26380				-		-	-	
1972	13761				-		-	-	
1973	26806				-		-	-	
1974	34943				-		-	-	
1975	29825				176083		-	-	
1976	24328				109305		-	-	
1977	26169				142778		-	-	
1978	28109				170908		123974	3197	
1979	18298				139034		138023	8050	
1980	8447				69531		191688	5975	
1981	3557				34181		173670	9484	
1982	3650				54912		106099	7145	
1983	6233				40617		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Carpet backing

ISIC Code	321404								Note:
NSIC Code									
SITC Code	6575/6576								
NSTC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM				1000TK		1000\$	1000\$	
1970	33000				-		-	-	
1971	41000				-		-	-	
1972	35000				-		-	-	
1973	54000				-		-	-	
1974	65729				-		-	-	
1975	40448				311840		-	-	
1976	71326				437870		-	-	
1977	70433				368787		-	-	
1978	76158				-		91	50	
1979	74795				564242		303	35	
1980	76775				1388089		243	6	
1981	70151				866068		1175	79	
1982	55387				692180		1709	-	
1983	92346				1445915		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Cigarettes

ISIC Code	314007								Note:
NSIC Code									
SITC Code	1222								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000000PN				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	10917				-		-	-	
1973	11202				-		-	-	
1974	11895				-		-	-	
1975	10441				-		-	-	
1976	11907				-		-	-	
1977	11634				-		-	-	
1978	11974				-		-	793	
1979	13531				-		-	1369	
1980	13830				-		-	1830	
1981	14906				-		-	2586	
1982	15778				-		-	864	
1983	14031				-		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Vegetable ghee

ISIC Code	311501								Note:
NSIC Code									
SITC Code	0914								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	Tn				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	2845				-		-	-	
1973	6322				-		-	-	
1974	5573				70880		-	-	
1975	6129				-		-	-	
1976	5179				99065		-	-	
1977	6612				112600		-	-	
1978	7099				121478		-	-	
1979	6064				117038		-	1	
1980	7158				141420		-	2	
1981	5168				108384		-	-	
1982	7157				159077		-	-	
1983	8890				203310		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Soyabean oil

ISIC Code		311510/311513							Note:
NSIC Code									
SITC Code		4212							
HSIC Code									
Source		Quantity				Value			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TN				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	5402				-		-	-	
1974	5622				63360		-	-	
1975	6830				90566		-	-	
1976	8374				123433		-	-	
1977	10641				123308		-	-	
1978	14640				162987		-	-	
1979	12955				202052		-	-	
1980	18379				291229		-	-	
1981	15236				248403		-	-	
1982	-				-		-	-	
1983	-				-		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Shrimps and frog legs

ISIC Code	311407								Note:
NSIC Code									
SITC Code	0313								
NSTC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	1012				-		-	-	
1974	1363				33352		-	-	
1975	1190				33152		-	-	
1976	2210				143714		-	-	
1977	3271				277695		-	-	
1978	2842				193826		17612	-	
1979	3376				286909		41254	-	
1980	2046				236211		35400	-	
1981	1116				120658		35802	-	
1982	1262				161425		60532	-	
1983	1076				-		-	-	
1984	-				-		-	-	



Country: Bangladesh

Commodity: Atta, maida and suji

ISIC Code	311601								Note:
NSIC Code									
SITC Code	046								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	28112				27209		-	-	
1975	28920				52924		-	-	
1976	31180				61892		-	-	
1977	25557				58857		-	-	
1978	26822				69281		10	2	
1979	25420				70061		-	-	
1980	28790				82470		-	-	
1981	10424				80082		683	-	
1982	15943				71491		-	-	
1983	10765				57546		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Bread and biscuit

ISIC Code	311704/311707								Note:
NSIC Code									
SITC Code	0484								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	4367				-		-	-	
1974	4370				43790		-	-	
1975	4571				73181		-	-	
1976	4005				60591		-	-	
1977	4237				65864		-	-	
1978	5332				85759		-	131	
1979	6437				10901		-	-	
1980	8319				131293		-	182	
1981	8365				172224		31	142	
1982	9222				188064		-	-	
1983	8701				175443		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Sugar

ISIC Code	311804								Note:
HSIC Code									
SITC Code	0612								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	18612				-		-	-	
1973	19296				-		-	-	
1974	88395				375590		-	-	
1975	98466				523937		-	-	
1976	86647				590933		-	-	
1977	140012				970283		-	-	
1978	175257				1214600		407	82	
1979	130720				856414		-	4298	
1980	93225				935128		842	38287	
1981	142918				1595185		-	26223	
1982	199003				2162283		-	4021	
1983	176867				2257167		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Molasses

ISIC Code	3118								Note:
NSIC Code									
SITC Code	0615								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	45432				31121		-	-	
1975	43010				11828		-	-	
1976	39169				13983		-	-	
1977	58731				16151		-	-	
1978	81981				56320		462	-	
1979	60876				14228		353	-	
1980	45921				1078		313	-	
1981	66365				17954		253	-	
1982	91251				24805		332	-	
1983	79179				14413		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Mustard oil

ISIC Code	311534/311537								Note:
NSIC Code									
SITC Code	42								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	3591				-		-	-	
1974	6826				84438		-	-	
1975	2992				45311		-	-	
1976	5021				65725		-	-	
1977	7632				96430		-	-	
1978	5575				97785		-	-	
1979	3509				62113		-	-	
1980	5258				90840		-	-	
1981	4328				86313		-	-	
1982	3974				81010		-	-	
1983	2853				04915		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Jute pressing

ISIC Code	321122								Note:
NSIC Code									
SITC Code	264								
NSIC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TN				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	130695				5027		-	-	
1975	76485				3293		-	-	
1976	134048				5772		-	-	
1977	188112				8099		-	-	
1978	99547				4280		119861	-	
1979	108297				4303		135140	-	
1980	116326				7784		135208	-	
1981	88142				6074		102050	-	
1982	75350				5660		100139	-	
1983	114277				8612		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Ice

ISIC Code	311213								Note:
NSIC Code									
SITC Code	11101								
NSIC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	2177				-		-	-	
1974	7836				-		-	-	
1975	4587				518		-	-	
1976	5714				588		-	-	
1977	5973				590		-	-	
1978	7431				773		-	4	
1979	7702				774		-	7	
1980	7215				740		-	-	
1981	6349				585		-	-	
1982	5603				619		-	-	
1983	2105				438		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Billet (2'sq)

ISIC Code	3710								Note:
HSIC Code									
SITC Code	6725								
HSTC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production TH	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	28344				77152		-	-	
1975	37163				126227		-	-	
1976	53676				284053		-	-	
1977	56057				281686		-	-	
1978	60954				308427		-	9511	
1979	99406				601402		-	21172	
1980	85742				601287		-	20547	
1981	94942				779408		-	31726	
1982	88361				790339		-	13058	
1983	44800				279959		-	-	
1984	-				-		-	-	



Country: BangladeshCommodity: Tea (black)

ISIC Code									Note:
HSIC Code									
SITC Code	0741								
HSIC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production 1000LBN	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	29404				-		-	-	
1973	57079				-		-	-	
1974	65623				139121		-	-	
1975	66748				214081		-	-	
1976	69927				296490		-	-	
1977	74861				578676		-	-	
1978	77402				669527		43762	-	
1979	75248				634777		32580	5	
1980	82285				625656		43690	-	
1981	90030				748368		38685	-	
1982	85720				780295		50425	3	
1983	64760				888974		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Cotton year

ISIC Code	3211								Note:
HSIC Code									
SITC Code	6513/6514								
HSIC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production 1000LBN	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	45641				-		-	-	
1973	80895				-		-	-	
1974	90847				1002051		-	-	
1975	91302				1497992		-	-	
1976	88073				1405028		-	-	
1977	82422				1529258		-	-	
1978	89760				2115194		29	33865	
1979	96579				2182015		33	13829	
1980	95282				2288371		27	26575	
1981	101952				2888255		49	30057	
1982	95288				281422		19	20317	
1983	101356				-		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Synthetic yarn

ISIC Code		3211							Note:
NSIC Code									
SITC Code		651676517							
NSTC Code									
Source		Quantity				Value			
Unit	11 Production 1000LBN	Shipment	Export	Import	11 Production 1000TK	Shipment	4 Export 1000\$	4 Import 1000\$	
1970	6153				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	4352				-		-	-	
1974	4670				-		-	-	
1975	3583				-		-	-	
1976	2675				34085		-	-	
1977	3122				53228		-	-	
1978	2869				57289		96	11358	
1979	3432				81048		303	11326	
1980	3905				108599		1648	18600	
1981	3306				105451		281	17995	
1982	1912				70340		513	18853	
1983	3507				170860		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Other printing, Writing paper

ISIC Code	341122								Note:
NSIC Code									
SITC Code	6412								
RSTC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TN				1000TK		1000\$	1000\$	
1970	31096				-		-	-	
1971	24159				-		-	-	
1972	15188				-		-	-	
1973	19035				-		-	-	
1974	18836				66119		-	-	
1975	23494				155260		-	-	
1976	14214				107910		-	-	
1977	19354				176758		-	-	
1978	21848				223767		1067	1099	
1979	26457				248466		2155	1950	
1980	24277				303946		1791	1801	
1981	25678				508954		-	3523	
1982	24743				570102		11	1804	
1983	20937				583891		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Cycle tyres and tubes

ISIC Code	355104/355107/355110								Note: a/ 1DOZ=12numbers
HSIC Code									
SITC Code	6291								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production DOZ a/	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	3840				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	3175				-		-	-	
1974	26000				-		-	-	
1975	31740				8855		-	-	
1976	37344				15572		-	-	
1977	29615				7937		-	-	
1978	31889				8865		1	9074	
1979	15158				4410		2155	7517	
1980	14702				13645		-	7076	
1981	16145				6691		-	15749	
1982	14279				13850		-	9560	
1983	12621				25770		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Jute fabrics, Woven

ISIC Code	3211								Note:
HSIC Code									
SITC Code	6534								
HSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH				1000TK		1000\$	1000\$	
1970	506954				-		-	-	
1971	372193				-		-	-	
1972	266567				-		-	-	
1973	365502				-		-	-	
1974	399527				-		-	-	
1975	369533				2364467		-	-	
1976	382207				2296634		-	-	
1977	303455				2446821		-	-	
1978	442093				3294046		145472	-	
1979	406858				3906051		181021	2	
1980	437824				6176176		212754	-	
1981	506905				6844008		178938	-	
1982	514821				6856091		125067	-	
1983	463294				6924094		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Coustic soda

ISIC Code	351150								Note:
NSIC Code									
SITC Code	51362								
HSIC Code									
Source	Quantity				Value				
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH				1000TK		1000\$	1000\$	
1970	3352				-		-	-	
1971	2711				-		-	-	
1972	2006				-		-	-	
1973	3877				-		-	-	
1974	3794				14387		-	-	
1975	4265				40675		-	-	
1976	4122				28079		-	-	
1977	5019				42318		-	-	
1978	5606				52685		-	1413	
1979	5415				52509		-	2093	
1980	5598				69986		-	4013	
1981	5800				97694		-	3523	
1982	6014				87424		-	3675	
1983	5595				86540		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Iron, steel heavy plate, etc.

ISIC Code	3710								Note:
HSIC Code									
SITC Code	674								
NSTC Code									
Source	Quantity				Value				
	11 Production	Shipment	Export	Import	11 Production	Shipment	4 Export	4 Import	
Unit	TN				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	26245				160384		-	-	
1975	9547				95098		-	-	
1976	16723				159476		-	-	
1977	32860				266040		-	-	
1978	20116				170055		10	27288	
1979	39026				383540		-	47482	
1980	21355				239104		-	45734	
1981	23012				297661		-	51619	
1982	20461				319840		-	35588	
1983	10882				254439		-	-	
1984	-				-		-	-	



Country: BangladeshCommodity: Motor cycle

ISIC Code	384401								Note:
NSIC Code									
SITC Code	73291								
NSTC Code									
Source	Quantity				Value				
	11				11		4	4	
Unit	Production NOH	Shipment	Export	Import	Production 1000TR	Shipment	Export 1000\$	Import 1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	2402				9530		-	-	
1975	2393				15803		-	-	
1976	2652				18541		-	-	
1977	3323				30538		-	-	
1978	3524				30471		-	1151	
1979	3565				44906		-	2461	
1980	5449				72898		-	3114	
1981	6122				80652		4	3007	
1982	5882				94229		-	2553	
1983	3089				49209		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Television receivers

ISIC Code	383201								Note:
NSIC Code									
SITC Code	7241								
HSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	663				-		-	-	
1974	1579				3827		-	-	
1975	3011				6532		-	-	
1976	2564				10115		-	-	
1977	4360				17726		-	-	
1978	6182				25559		-	389	
1979	8343				33834		-	646	
1980	8384				38821		-	2420	
1981	11224				45904		-	5464	
1982	12268				56938		-	3518	
1983	12020				59599		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Radio receivers

Source	Quantity				Value			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	NOH				1000TK		1000\$	1000\$
1970	-				-		-	-
1971	-				-		-	-
1972	-				-		-	-
1973	29032				-		-	-
1974	41380				12875		-	-
1975	37977				14632		-	-
1976	52078				18042		-	-
1977	89268				24539		-	-
1978	148109				39245		-	923
1979	182473				49336		-	821
1980	227852				63093		-	1704
1981	108035				58782		-	2174
1982	185813				59639		-	1599
1983	112646				41385		-	-
1984	-				-		-	-

Note:

Country: Bangladesh

Commodity: Cable wire (Value of prod.)

ISIC Code	383907								Note:
NSIC Code									
SITC Code	7231								
HSIC Code									
	Quantity				Value				
Source	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit					1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	-				24966		-	-	
1975	-				32547		-	-	
1976	-				57107		-	-	
1977	-				83049		-	-	
1978	-				113696		685	7649	
1979	-				134971		2551	2086	
1980	-				202476		207	2554	
1981	-				122007		-	1203	
1982	-				111054		-	875	
1983	-				165546		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Electric lamps

ISIC Code	383916/38391DA								Note:
NSIC Code									
SITC Code	7292								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production 1000NOM	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	2256				-		-	-	
1974	2446				9225		-	-	
1975	2577				14896		-	-	
1976	3049				22600		-	-	
1977	4620				32577		-	-	
1978	4066				41608		-	479	
1979	4941				41019		-	300	
1980	6118				52439		-	2026	
1981	5425				54388		-	4305	
1982	8451				86145		-	670	
1983	8958				103055		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Domestic electric equip, nes

ISIC Code	3833								Note:
HSIC Code									
SITC Code	72503								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
Unit	Production NOH	Shipment	Export	Import	Production 1000TK	Shipment	Export 1000\$	Import 1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	16513				-		-	-	
1974	31526				14045		-	-	
1975	40201				31970		-	-	
1976	36654				30275		-	-	
1977	45713				39572		-	-	
1978	62375				56666		-	250	
1979	76478				67314		-	820	
1980	81456				72895		-	1343	
1981	84267				90730		-	860	
1982	96181				114981		-	454	
1983	10394				-		-	-	
1984	-				-		-	-	

Country: Bangladesh

Commodity: Pumps for liquids

ISIC Code	382942								Note:
NSIC Code									
SITC Code	71921								
NSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	2303				14786		-	-	
1975	4121				11093		-	-	
1976	2367				6980		-	-	
1977	4665				20540		-	-	
1978	3764				17911		6	4690	
1979	4844				18445		-	10461	
1980	6095				17723		71	10778	
1981	16100				51541		8	8793	
1982	10232				66159		3	9494	
1983	35676				93208		-	-	
1984	-				-		-	-	

Country: BangladeshCommodity: Special purpose trucks, etc.

ISIC Code	3843								Note:
NSIC Code									
SITC Code	7324								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	-				-		-	-	
1973	-				-		-	-	
1974	-				-		-	-	
1975	160				-		-	-	
1976	341				-		-	-	
1977	469				-		-	-	
1978	748				-		-	353	
1979	642				-		-	547	
1980	704				53892		51	904	
1981	595				106398		-	177	
1982	326				49397		35	570	
1983	322				11013		-	-	
1984	-				-		-	-	



Country: BangladeshCommodity: Car

ISIC Code	384307/384310								Note:
NSIC Code									
SITC Code	7321								
HSIC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH				1000TK		1000\$	1000\$	
1970	-				-		-	-	
1971	-				-		-	-	
1972	100				-		-	-	
1973	90				-		-	-	
1974	25				-		-	-	
1975	26				-		-	-	
1976	41				-		-	-	
1977	15				-		-	-	
1978	7				-		78	13308	
1979	1				-		145	11285	
1980	-				-		231	15754	
1981	-				-		284	22768	
1982	-				-		160	7188	
1983	-				-		-	-	
1984	-				-		-	-	

**PART III**

**SRI LANKA**

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Commodity Balance Sheets

I.        **Explanatory Notes on Manufacturing Statistics**

## SRI LANKA

### 1. Survey on Manufacturing Industries

Reference Period : Calendar Year  
Survey Year : 1978, 1979, 1980, 1981  
Office in Charge : Department of Census and Statistics  
Title of Report : Report on the Survey on Manufacturing Industries

#### Coverage:

This survey covers the manufacturing sector within the territorial boundaries of Sri Lanka. Manufacturing establishments covered by this survey included private sector manufacturing establishments, public corporations, government-owned business undertakings, and industrial establishments coming within the purview of the Greater Colombo Economic Commission (GCEC) etc.

It should be noted that printing, publishing and allied industries (ISIC 342) are excluded from the scope of the survey prior to 1980.

#### Items:

- 1978 - Output, Sales, Raw materials, Stocks, Employment.
- 1979 - Output, Sales, Raw materials, Stocks, Employment, Fuel, Electricity, Fixed Capital.
- 1980 - Output, Sales, Raw materials, Stocks, Employment, Fuel, Electricity, Fixed capital, Value added, Salaries, Capacity of the manufacturing firms.

#### Classification:

The classification scheme used in the tables is based on the International Standard Industrial Classification (I.S.I.C) of the United Nations.

### Method of Collection:

The survey was conducted by mail enquiry using one standard questionnaire. The postal survey method was reinforced by a field follow-up technique aimed at non-respondents. Scrutiny and editing of the returns were carried out by the office staff through correspondence, personal visits and telephone discussion.

### Number of Reported Establishments (Response rate):

1978	1,728 (80%)
1979	2,462 (80%)
1980	2,460 (80%)
1981	(90%)

### Definitions and Concepts:

The definitions and concepts used in the survey were broadly in accordance with the United Nations recommendations for basic industrial statistics. Slight deviations from these recommendations were made to suit local conditions at the some stages.

#### 1) Statistical Unit

The Statistical unit was the establishment, which was defined as a manufacturing or processing unit engaged in the manufacture of a single or of related products in one location, under a single ownership or control. In cases where the industrial enterprise was engaged in the manufacture of more than one group of related products in one location or the manufacture of one group of products in different locations, separate returns were requested for each such type of activity.

#### 2) Output

Only the products made by the establishment were considered. The output of manufacturing industries was valued at ex-factory price i.e. the price at which the goods leave the factory gates. Any discounts given by the factory were to be included in the value of such output, but excluded were outward transport charges, indirect taxes, selling and distribution expenses etc.

### 3) Value Added

The value added was derived as the difference between the value of output and that of the inputs which was constituted by the value of raw materials, electricity and fuel consumed.

### 4) Inputs

Only direct inputs (raw materials, electricity and fuel) were considered. The values of imported and local raw materials consumed were collected at market prices at which the manufacturer purchased such materials.

### 5) Fixed Capital Assets

Refer to Fixed assets with a productive life of one year or more which were intended for the use of the establishment.

### 6) Employees

This covers all persons who worked in the establishment and received pay, and persons (except home workers) working away from the establishment when paid by and under the control of the establishment.

### 7) Operatives

This includes all employees who were directly engaged in the production or related activities of the establishment.

### 8) Salaries and Wages

This refers to all payments whether in cash or in kind (including bonuses, cost of living or dearness allowance) made by the establishment to its employees during the year.

## 2. Census of Industry

Reference Period : Calendar Year 1982

Office in Charge : Department of Census and Statistics

### Coverage:

The Census covered the industrial sector in Sri Lanka, comprising all establishments engaged primarily in mining and quarrying, manufacturing, and the production and distribution of electricity, gas and water. All establishments engaging five or more persons and also a sample of those with less than five persons was enumerated. (The industrial sector in Sri Lanka encompasses 20,000 establishments with five or more persons and 88,000 establishments with less than five persons engaged.)

### Items:

Output, Employment, Earnings, Stocks, Fixed capital formation, Input costs, etc.

### 3. Field Survey of Manufacturing Industry

Reference Period : Calendar Year 1974

Office in Charge : Ministry of Industries and Scientific Affairs

Title of Report : Report on the Field Survey of Manufacturing in Sri Lanka 1975/76

#### Coverage:

The industrial establishments covered by the Survey comprised 3249 manufacturing establishments registered/ approved by the Ministry of Industries & Scientific Affairs and 224 establishments registered by the Department of Small Industries for which foreign exchange is granted for the purchase of raw materials. Industrial activities of cottage scale units & the handloom sector of the textile industry were not covered. The power loom & handloom sectors of the textile industry under the supervision of the Department of Small Industries were also excluded.

#### Items:

Value of Output, Raw materials and components consumed in production, Value of power & fuel used, Value added, Wages, Number of employment, Capital assets (plant & machinery).

#### Classification:

The classifications used is based on the International Standard Industrial Classification of the United Nations. Principal indicators of industrial activity all island is prepared according to industrial major groups (2 and 3 digit level).

#### Method of Collection:

The questionnaire was gazetted in December 1974. A copy of the Gazette was posted to each industrial establishment covered by the Survey. Publicity was given in the newspapers and over the radio. The actual field operations commenced in August 1975. The field officers visited each of the establishments. Their duties were to (a) verify the reliability of data furnished in the returns, (b) to retrieve the balance questionnaires by assisting in the completion of the returns.



## Definitions and Concepts:

The definitions and concepts used in this Survey were generally in accordance with the United Nations recommendations for the 1973 worked programme of Industrial Statistics. A few modifications however were made to suit local conditions.

### 1) Type of Industrial Activity Covered

All establishments engaged in the transformation of basic materials to semi-finished products as well as those engaged in industrial servicing have been included under "manufacturing".

### 2) Statistical Unit

The Statistical Unit was an industrial establishment. An establishment for the purpose of this survey was defined as a single industrial enterprise or part thereof engaged predominantly in one kind of economic activity in one location and listed under a single sectoral division and "Industry Group" in the sectoral classification of the Ministry of Industries.

### 3) Value of Industrial Output

This refers to the total value of all commodities (including by-products) & services produced. Besides value of finished goods produced, it includes:

- (i) Semi-finished goods sold - relating to products which could be further processed in the same establishment or supplied to other enterprises for further processing.
- (ii) Semi-finished products used up in own integrated mill - This is valued at cost price (valued at prices obtained).
- (iii) Services rendered to others - viz (a) contract work done for others on their materials. (b) Miscellaneous receipts including services such as installation or repair work undertaken for other firms.
- (iv) Work-in-Progress - viz: the cost of raw materials, fuel, labour and all other inputs which have been already been introduced into the process of manufacture and which at the end of the year have not left the machines as finished or intermediate goods. The valuation is at Cost Price. The work-in-progress was not evaluated for firms which have a production cycle of less than 30 days.

- (v) Capital Goods - Produced by the establishment for its own use, valued at cost or production.

The valuation of commodities produced was at ex-factory price. This was defined as the price at which the goods leave the factory gates excluding indirect taxes viz: excise duties, turnover tax, other taxes on the finished products and selling & distribution expenses viz: advertising commissions & any other expenses incurred in connection with sales. Any discounts given by the factory was added to the value of output. In instances it was difficult to ascertain the ex-factory value, due to the lack of proper records of production, the value of output was computed from the value of sales after adjusting for changes in stocks, excise duties etc. during the year.

4) Value of Sales

It was valued at the actual prices at which the goods were sold to the wholesales, retailers or direct to the consumers by the factory and includes indirect taxes selling and distribution expenses etc.

5) List of Products

For purposes of "Product" identification a coded list of products was used in this Survey.

6) Value Added

Value added was estimated as the value of total output less inputs of raw materials, power & fuel and other related costs.

7) Output Capacity

Output of the present product mix (i.e. the proportions of the quantities of different products manufactured remaining unchanged) that could be produced during a year with the existing machinery & equipment under the optimum number of shifts feasible assuming all requirements viz: raw materials, skilled man-power etc. being available.

8) Value of Fixed Assets

The figures related to value of machinery & equipment only. Value of vehicles excluding those used solely for marketing of finished products are excluded.

The value shown is the Book Value at the end of the year.

#### 4. Small Scale Industries Survey

Reference Period : Calendar Year 1974

Office in Charge : Department of Census and Statistics

##### Coverage:

The manufacturing units whose purchase price of plant and machinery did not exceed Rs.200,000, excluding land and buildings, were surveyed. However, the survey data collected was restricted only to manufacturing concerns falling into the undermentioned fifteen categories - textile printing, batiks, cement products, brass fittings, brassware, foundry products, paints, leather tanning, roofing tiles, structural clay products, provender, agricultural machinery, fish curing, pedal cycles and components, and rubber products (other than tyres and tubes).

##### Items:

Production, inputs, employment, value of machinery, equipment, etc.

## **II. General Industrial Statistics**

### **1. Explanatory Notes**

### **2. Statistical Tables**

#### **2.1 Number of Establishments**

#### **2.2 Employment (Average Number of Employees)**

#### **2.3 Gross Output**

#### **2.4 Wages and Salaries**

#### **2.5 Value Added**

#### **2.6 Gross Fixed Capital Formation**

#### **2.7 Index Number of Industrial Production**

## 1. Explanatory Notes

### I. Classification:

The data are taken from the ISIC 3 digit code (International Standard Industrial Classification of All Economic Activities). Deviations from this standard are mentioned in the footnotes to each table.

### II. Data Sources:

The statistical data presented in the following tables are derived from four data sources, UN, UNIDO, NA01 and NA02. Data sources are abbreviated as follows.

UN ----- UN, "Yearbook of Industrial Statistics,  
Vol. I. General Industrial Statistics"

UNIDO -- UNIDO, General Industrial Data Base.

NA 01 -- Department of Census and Statistics, Sri Lanka,  
"Report on the Survey of Manufacturing Industries"

NA 02 -- Ministry of Industries and Scientific Affairs, Sri Lanka,  
"Report on the Field Survey of Manufacturing Industry  
in Sri Lanka"

Please notice that the data sources of industrial production indexes are NP01 and NP02 as well as UN and UNIDO, where NP's are defined as follows.

NP 01 -- Department of Census and Statistics, Sri Lanka,  
"Statistical Abstract of Sri Lanka"

NP 02 -- Computer printout obtained from Department of Census and Statistics,  
Sri Lanka.

### III. Reference Period:

The period is the calendar year.

### IV. Concepts and Definitions:

For description of concepts and definitions, please refer to the Explanatory notes on Manufacturing Statistics.

COUNTRY: SRI LANKA

2.1

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02	212	207	194	226	222	184	185	175	195	169	190			
						163				162	169	201			
313	Beverages	25	26	25	26	26	17	17	28	28	18	14			
						15				15	18	18			
314	Tobacco	2	2	2	2	2	5	5	5	5	29	13			
						4				4	29	14			
321	Textiles	153	241	242	240	242	388	388	272	267	718	367			
						324				216	718	428			
322	Wearing appare	414	534	490	497	497	589	589	514	602	332	202			
						589				326	332	245			
323	Leather and products	36	36	34	51	51	48	46	51	51	45	43			
						49				33	45	60			
324	Footwear	48	43	43	45	44	36	38	28	23	16	16			
						38				18	16	24			
331	Wood products	2	1	1	16	14	22	22	12	6	31	25			
						14				5	31	37			



COUNTRY: SRI LANKA

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c	86	93	89	82	83	78	71	01	77	09	70			
						08				41	00	95			
361	Pottery, china etc.	4	5	5	7	7			02	03	8	13			
						2				5	8	13			
362	Glass and products	22	22	22	21	22	25	25	20	11	13	15			
						34				14	13	10			
369	Non-metal products n.e.c.	72	73	86	98	99	65	70	60	88	140	134			
						60				70	140	138			
371	Iron and steel	5	6	6	6	6	4	4	3	0	0	4			
						2				5	0	5			
372	Non-ferrous metals	16	15	15	17	15	15	20	10	12	5	8			
						10				0	5	8			
381	Metal products	249	255	260	262	254	240	253	275	300	205	182			
						227				240	205	201			
382	Machinery n.e.c.	50	52	56	62	67	71	80	83	81	45	45			
						83				01	45	50			







COUNTRY: SRI LANKA

## Employment (Average Number of Employees)

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures	394	685	693	253	220	425	442	4402	2377	2097	1135				
			1000	1000						4000	2000	2000				
							400				870	2007	1135			
341	Paper and products	4907	5390	5894	6211	5112	5598	6380	6001	8048	7984	6500				
			5000	5000	6000	6000	5000	6000	6000	7000	8000	8000	8000			
							2403				7027	7984	6500			
342	Printing, publishing	1000	1000	2000	2000	2000	2000	2000	2000	2000	2000	4035				
													2000			
													4035			
351	Industrial chemicals	642	656	668	644	693	802	839	933	1013	883	1070				
			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
							408					958	883	1070		
352	Other chemical products	6935	7300	7121	7502	7387	7220	8030	9804	3481	4469	6169				
			7000	7000	7000	8000	7000	7000	8000	10000	3000	4000	4000			
							4303				4008	4469	6169			
353	Petroleum refineries	476	519	625	607	607	621	681	645	740	4908	5261				
			1000	1000	1000	1000	1000	1000	1000	1000	1000	5000				
											2800	4908	5201			
354	Petroleum, coal	431	385	397	397	397	305	375	303	1120	291	17				
												1000				
							110					1120	291	17		
355	Rubber products	4361	4770	5780	5384	5051	5591	5420	5810	6000	4617	7150				
			4000	5000	5000	5000	5000	6000	5000	6000	6000	5000	5000			
							3095					4035	4617	7150		

COUNTRY: SRI LANKA

Employment (Average Number of Employees)

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
356	Plastic products n.e.c.	2450	2608	2348	2088	2420	1692	1771	1851	1520	1543	2194				
		2000	3000	2000	2000	2000	2000	2000	2000	2000	2000	2000				
						1038					1234	1543	2194			
361	Pottery, china etc.	1033	1140	1294	3349	2581	3291	3444	4001	4502	3921	3930				
		1000	1000	1000	2000	3000	3000	3000	5000	5000	4000					
						70					1191	3921	3930			
362	Glass and products	1157	1327	1443	1274	1344	1895	1004	2024	1800	934	872				
		1000	1000	1000	1000	1000	2000	2000	2000	2000	1000					
						1507					1179	934	872			
369	Non-metal products n.e.c.	8480	9423	9402	8227	6933	8270	8781	10300	10280	12411	15342				
		8000	9000	9000	8000	7000	8000	9000	10000	10000	12000					
						1925					8192	12411	15342			
371	Iron and steel	1187	1344	1498	1512	1538	1451	1551	2243	2113	1729	2151				
		1000	1000	1000	2000	2000	1000	2000	2000	2000	2000	2000				
						88					2095	1729	2151			
372	Non-ferrous metals	511	361	360	434	581	789	1550	730	400	1444	882				
		1000				1000	1000	2000	1000		1000					
						581					340	1444	882			
381	Metal products	6572	7133	6800	6400	5800	6550	6010	4947	9294	4000	4703				
		7000	7000	7000	6000	6000	7000	7000	5000	9000	4000					
						5200					7330	4000	4703			
382	Machinery n.e.c.	7184	7983	6701	7503	7173	7784	7008	8049	5085	1548	3521				
		7000	8000	7000	8000	7000	8000	7000	8000	5000	2000					
						7800					5407	1548	3521			



COUNTRY: SRI LANKA

2.3

Gross Output

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products UN UNIDO NA 01 NA 02	286	303	351	407	657					1375	1559				
		286	303	351	407	657					1375					
						149					969	1375	1559			
313	Beverages	68	68	63	55	63					245	375				
		68	68	63	55	63					245					
											1020	245	375			
						55										
314	Tobacco	306	404	435	372	503					976	1258				
		306	404	435	372	503					976					
											1106	976	1258			
						504										
321	Textiles	188	188	285	344	527					1278	948				
		188	188	285	344	527					1278					
											950	1278	948			
						337										
322	Wearing appare:	62	72	80	71	71					463	608				
		62	72	80	71	71					463					
											108	463	608			
						114										
323	Leather and products	12	14	15	19	20					56	50				
		12	14	15	19	20					56					
											39	56	50			
						16			17		25	30	30	42	42	42
324	Footwear	33	40	40	35	32					95	68				
		33	40	40	35	32					95					
											108	95	68			
						40										
331	Wood products	13	15	22	39	34					127	259				
		13	15	22	39	34					127					
											82	127	259			
						4			76	14	63	102	160	102	160	160

Handwritten notes at the bottom of the page, including "Leather and products - (incl. Footwear)" and other illegible scribbles.

COUNTRY: SRI LANKA

Gross Output

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	2	4	4	7	7					25	10			
		2	4	4	7	7					25				
										11	25	10			
341	Paper and products	74	86	127	120	148					335	372			
		74	86	127	120	148					335				
										311	335	372			
342	Printing, publishing														
		14	16	23	21	20									
												57	195		
351	Industrial chemicals	13	14	17	18	37					61	161			
		13	14	17	18	37					50				
						35				62	61	161			
352	Other chemical products	147	173	191	164	215					443	681			
		147	173	191	164	215					443				
						44				305	443	681			
353	Petroleum refineries	180	167	240	370	925					3500	8305			
		180	167	240	370	925					3500				
										1710	3500	8305			
354	Petroleum, coal products	12	11	11	11	12					4	2			
		12	11	11	11	12					4				
						2				003	4	2			
355	Rubber products	63	98	97	91	120					298	614			
		63	98	97	91	120					298				
										308	298	614			
						10									

National Paper Corp.

← Foreign Chemicals Corp.

COUNTRY: SRI LANKA

Gross Output

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
358	Plastic products n.e.c.	33	37	42	39	57					97	247				
		33	37	42	39	57					97					
											54	97	247			
												57				
361	Pottery, china etc.	8	11	13	13	37					84	104				
		8	11	13	13	37					84					
											53	84	104			
											0.0	153	171	199	202	
362	Glass and products	10	16	15	14	15					55	13				
		10	16	15	14	15					55					
											27	55	13			
												10				
369	Non-metal products n.e.c.	120	133	125	101	218					578	1171				
		120	133	125	101	218					578					
											420	578	1171			
												14	74	72	232	*
371	Iron and steel	52	66	70	60	140					278	402				
		52	66	70	60	140					278					
											210	278	402			
												10				
372	Non-ferrous metals	13	16	21	24	20					84	114				
		13	16	21	24	20					84					
											10	84	114			
												19				
381	Metal products	74	102	100	98	137					170	258				
		74	102	100	98	137					170					
											178	170	258			
												20				
382	Machinery n.e.c.	93	95	80	88	100					78	153				
		93	95	80	88	100					70					
											143	78	153			
												120				

\* - Gross Domestic Product

\*3 MS 10 - Gross Output

59 67 51 9 36 \* - Gross Domestic Product





COUNTRY: SRI LANKA

2.4

Wages and Salaries

Unit: 1000 Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02											118000			
						13108						118369			
313	Beverages											45000			
						7370						45094			
314	Tobacco											31000			
						18567						31287			
321	Textiles											215000			
						56300						214508			
322	Wearing apparel											87000			
						13708						87198			
323	Leather and products											5000			
						1616						5270			
324	Footwear											18000			
						7628						17765			
331	Wood products											39000			
						747						39221			

COUNTRY: SRI LANKA

## Wages and Salaries

Unit: 1000 Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures											5000			
						352						5074			
341	Paper and products											51000			
						7027						50832			
342	Printing, publishing											44000			
												43821			
351	Industrial chemicals											19000			
						3973						19237			
352	Other chemical products											60000			
						23441						60173			
353	Petroleum refineries											75000			
												74913			
354	Petroleum, coal products											187			
						1120									
355	Rubber products											74000			
						11479						74450			

COUNTRY: SRI LANKA

## Wages and Salaries

Unit: 1000 Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.											17000			
						5011						17430			
361	Pottery, china etc.											30000			
						111						35700			
362	Glass and products											6000			
						3257						5502			
369	Non-metal products n.e.c.											174000			
						6798						173002			
371	Iron and steel											30000			
						360						30263			
372	Non-ferrous metals											10000			
						2501						9520			
381	Metal products											38000			
						13874						37055			
382	Machinery n.e.c.											29000			
						34141						28925			



COUNTRY: SRI LANKA

2.5 Value Added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02	79	93	106	120	190				589.9	366 366 365.7	463 463.3			
313	Beverages	48	49	41	36	42				621.2	66 66 65.8	126 125.5			
314	Tobacco	90	119	142	185	222				970.0	827 827 827.1	1049 1049.4			
321	Textiles	87	103	154	184	279				439.6	657 657 656.6	446 446.1			
322	Wearing apparel	45	42	47	42	42				62.2	274 274 274.5	191 190.6			
323	Leather and products	7	8	9	11	12				20.1	32 32 31.9	18 18.5			
324	Footwear	17	22	22	19	18				48.5	54 54 53.8	26 26.0			
331	Wood products	9	10	15	26	23				49.1	82 82 82.1	86 85.7			

COUNTRY: SRI LANKA

Value Added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	1	2	2	4	4				0.1	14	14			
						0.0					13.7	0.1			
341	Paper and products	31	35	50	40	55				144.2	145	127			
						18.7					145	127.4			
342	Printing, publishing	6	6	9	8	9					25	58			
											57.0				
351	Industrial chemicals	5	9	11	11	23				42.5	38	40			
						8.0					37.0	40.3			
352	Other chemical products	85	95	100	91	120				102.4	252	205			
						72.7					252	204.0			
353	Petroleum refineries	46	35	46	61	137				201.8	294	910			
											294	909.0			
354	Petroleum, coal products	7	7	7	7	7				89.0	3	1			
						2.2					3	0.6			
355	Rubber products	40	63	62	58	77				181.0	112	230			
						23.0					112	229.8			





COUNTRY: SRI LANKA

Value Added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	15	22	24	21	33				20.0	57.1	00.3			
						21.8									
361	Pottery, china etc.	7	9	11	11	32				20.7	02	02			
						0.4					02	02.4			
362	Glass and products	8	11	11	10	11				15.5	33	8.3			
						5.0					33				
369	Non-metal products n.e.c.	20	66	63	81	110				240.0	277.7	330.0			
						5.5					277	340			
371	Iron and steel	9	11	12	10	12				44.7	18	52.8			
						0.9					18				
372	Non-ferrous metals	2	3	4	4	5				5.0	21	31.0			
						4.0					21				
381	Metal products	46	50	53	50	71				05.5	91	110.2			
						30.7					91				
382	Machinery n.e.c.	44	46	42	45	55				71.3	47	04.5			
						51.1					47				

COUNTRY: SRI LANKA

2.6 Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01 NA 02										467	597			
											471	506.8			
313	Beverages										111	177			
											108	177.2			
314	Tobacco										98	187			
											98	186.6			
321	Textiles										553	608			
											553	607.5			
322	Wearing apparel										223	215			
											223	215.1			
323	Leather and products										24	18			
											24	18.3			
324	Footwear										34	45			
											34	44.9			
331	Wood products										163	151			
											163	150.5			

COUNTRY: SRI LANKA

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures										27	22			
											27	22.1			
341	Paper and products										640	400			
											640	400.5			
342	Printing, publishing											103			
												103.0			
351	Industrial chemicals										50	2730			
											52	2730.4			
352	Other chemical products										145	164			
											145	163.0			
353	Petroleum refineries										430	400			
											430	400.4			
354	Petroleum, coal products										24	1			
											24	1.4			
355	Rubber products										115	230			
											115	230.4			

COUNTRY: SRI LANKA

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.										55	100			
											55	100.4			
381	Pottery, china etc.										130	143			
											130	143.4			
382	Glass and products										24	41			
											24	41.2			
389	Non-metal products n.e.c.										510	788			
											510	787.7			
371	Iron and steel										100	240			
											100	240.0			
372	Non-ferrous metals										40	40			
											40	40.3			
381	Metal products										109	132			
											100	131.7			
382	Machinery n.e.c.										33	75			
											33	74.0			



COUNTRY: SRI LANKA

2.7 Index Numbers of Industrial Production (UN 1975=100/NP 1966=100)

CODE	INDUSTRY		1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN	c/ 108	106	105	95	92	100	101	110	125	204	184			
		UNIDO	81	78	88	88	92	100	113	107	117	108	92	150		
		NP 01														
		NP 02														
313	Beverages		c/ 108	106	105	95	92	100	101	110	125	204	195			
							185.2	77.3	79.3	83.7	131.0	281.6				
314	Tobacco		65	68	74	74	87	100	100	104	109	145	224			
			65	68	74	73	87	100	100	104	109	145	154	162		
							179.0	206.3	206.3	216.4	227.9	301.8				
321	Textiles	a/	52	60	54	60	98	100	103	118	123	82	112			
			52	60	54	60	98	100	103	118	123	82	58	103		
			160.0	185.0	164.8	182.7	300.5	306.8	316.6	300.8	378.0	251.3	344.7			
322	Wearing apparel	a/ b/	75	78	80	66	60	100	102	93	112	121	129			
			75	78	80	66	60	100	102	93	112	121	149.0			
							111.4	216.2	165.0	167.6	187.1	149.0				
323	Leather and products		92	105	110	105	114	100	130	145	187	219	199			
			92	105	110	105	114	100	130	145	187	219				
			126.1	143.3	151.2	144.2	155.8	136.8	178.4	198.7	258.2	299.0	272.8			
324	Footwear	b/	75	78	80	66	60	100	102	93	112	121				
							137.1	165.7	283.7	201.4	257.4	333.9				
331	Wood products		47	46	58	83	95	100	92	73	64	33	74			
			47	46	58	83	95	100	92	73	64	33	55	68		
			125.1	120.7	152.2	219.8	250.9	264.7	242.1	142.6	169.6	88.4	194.8			

a/ Some textile manufacturing is included in 322.

b/ 324 is included in 322.

c/ 313 is included in 311/2.

COUNTRY: SRI LANKA

Index Numbers of Industrial Production (UN 1975=100/HP 1966=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	86	90	93	97	100	100	101	102	103					
341	Paper and products	120 30	125 30	142 76	119 102	99 131	100 100	103 93	230 103	220 122	137 103	95 88	111		
		124.3	129.8	147.5	123.5	102.7	103.7	107.1	238.8	228.3	141.7	98.5			
342	Printing, publishing	282	214	155	155	118	100	31	31	54	62	69			
351	Industrial chemicals	a/ 92 90	95 107	108 124	99 111	94 105	100 100	135 124	193 118	248 143	178 173	120 173			
		a/ 87.2	90.3	102.6	93.7	88.9	95.0	128.2	183.2	235.6	169.5	113.8			
352	Other chemical products	a/ 92	95	108	99	94 81.3	100 126.3	135 120.9	193 70.4	248 112.3	178 121.2				
353	Petroleum refineries	88	62	111	114	97	100	105	102	99	97	125	115		
		351.7	299.7	277.5	356.2	308.3	308.3	296.9	303.5	422.4	400.0	384.8			
354	Petroleum, coal products	93	113	113	113	100	100	98	96						
		100.0	81.8	81.9	86.8	45.6	85.1	85.1	68.8	89.4	100.0	90.9			
355	Rubber products	82	130	131	123	86	100	148	132	153	200	275			
		82	131	131	123	86	100	148	133	153	200	198	177		
		271.0	430.1	431.3	404.2	282.4	329.6	488.3	436.7	503.7	658.0	906.8			

a/ 352 is included in 351.

COUNTRY: SRI LANKA

## Index Numbers of Industrial Production (UN 1975=100/NP 1966=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	93	108	111	118	77	100	80							
		198.0	210.8	175.3	131.6	188.9	188.9	188.9	167.2	167.2	145.7	167.2			
361	Pottery, china etc.	a/ 112	124	119	130	141	100	106	110	142	241	303			
		112	124	119	130	141	100	106	110	142	241				
		a/ 189.4	209.8	201.1	219.0	237.6	168.7	178.2	180.1	239.8	406.3	510.9			
362	Glass and products	a/ 119	132	126	138	150	100	113	117						
		a/													
369	Non-metal products n.e.c.	a/ 112	124	119	130	141	100	106	110	142	241	216	296		
		a/													
371	Iron and steel	b/ 160	213	165	103	99	100	97	80	90	118	151			
		160	213	165	103	99	100	97	80	90	118	139	102		
		b/ 201.3	268.8	208.2	129.3	124.8	126.0	121.7	100.4	113.4	148.5	189.7			
372	Non-ferrous metals	b/ 160	213	165	103	99	100	97	80	90	118				
		b/													
381	Metal products	151	173	143	170	120	100	89	122	76	110	88			
		110	113	183	140	127	100	113	73	130	130				
		112.2	129.2	106.6	126.3	89.5	74.5	66.4	91.2	56.7	82.0	65.7			
382	Machinery n.e.c.	302	282	318	192	164	100	114	118	207	213				
		187.7	166.8	216.7	210.9	208.8	133.6	137.7	91.6	156.5	128.0	169.9			

a/ 362 and 369 are included in 361.

b/ 372 is included in 371.





### III. Commodity Balance Sheets

1. Milk and cream, condensed
2. Milk and cream, dried
3. Fish, salted, dried or smoked
4. Margarine, imitation lard and other prepared fats
5. Flour, wheat
6. Raw sugar
7. Sugar confectionery
8. Tea
9. Prepared animal feeds
10. Beer
11. Cigarettes
12. Cotton woven fabrics
13. Footwear
14. Plywood
15. Kraft paper and kraft paperboard
16. Soap
17. Motor gasoline
18. Distillate fuel oils
19. Residual fuel oils
20. Cement
21. Sewing machines
22. Radio receivers
23. Bicycles
24. Watches

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).

QUANTITY UNIT CODEAppendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL*	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG*	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL*	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS*	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX*	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN*	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT*	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS	SMM	SQUARE METRES		
FLN	FLASKS	SMN	SQUARE METRES		
FTN	FEET	SPM	NUMBER OF SPINDLES		
GIN	IMPERIAL GALLONS	STN	SHORT TONS		
GPN	PROOF GALLONS				
GRN	GROSS				

Note: The codes put on "\*" are prepared by IDE.

CUURENCY UNIT CODEAppendix II

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHILIPPINES
S\$	Singapore Dollar(s)	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Sources

Source No.

1. UN, "Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics"
2. UN, "Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics"
3. ESCAP, "Statistical Yearbook"
4. AIDXT (International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base
6. UNIDO, Commodity Production Data Base.
7. UNIDO, Production Index Data Base.
8. UN, "Yearbook of International Trade Statistics"
9. UN, "Statistical Yearbook"
- 10.
11. Department of Census and Statistics, "Statistical Abstract of Sri Lanka"
12. Department of Census and Statistics, "Report on the Survey on Manufacturing Industries"
13. Ministry of Industries and Scientific Affairs, "Report on the Field Survey of Manufacturing Industry in Sri Lanka 1975/76"

Country: Sri Lanka

Commodity: Milk and Cream, condensed

ISIC Code	311201								Notes
NSIC Code	3112-01-00-A								
SITC Code	022.1								
NSTC Code	04.02 D1								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	4284		-	2462			1	864	
1971	4281		-	1			1	1	
1972	7605		-	1990			-	823	
1973	8710		-	-			-	-	
1974	5919		-	-			-	-	
1975	7764		-	642			-	560	
1976	7605		72	-			76	131	
1977	5861		1	2389			1	1270	
1978	5079		0	6488			1	2305	
1979	5541		3	5219			4	3351	
1980	3969		0	1463			1	1231	
1981	7000		70	1182			98	1328	
1982	-		93	433			149	505	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Milk and Cream, dried

ISIC Code	311204								Note:
NSIC Code	3112-02-00-A								
ITC Code	022.2								
HSTC Code	04.02 B		04.02 C						
	Quantity				Value				
Source	6			4				4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM			TM				1000\$	
1970	8065		-	12577			-	7184	
1971	5876		-	10372			-	6992	
1972	7347		-	9836			-	8534	
1973	7167		-	-			-	-	
1974	7103		-	9800			-	10200	
1975	7663		-	7776			-	11058	
1976	9699		-	-			-	7739	
1977	10136		-	14666			-	9256	
1978	9620		-	24749			-	20451	
1979	4270		-	23433			-	24513	
1980	1838		-	20632			-	28281	
1981	10000		-	10000			-	17579	
1982	-		-	10940			-	20459	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: Sri Lanka

Commodity: Fish, salted, dried or smoked

ISIC Code	311404								Note:
NSIC Code	3114-02-00-A								
SITC Code	031.2								
NSTC Code	03.02								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	4600		-	34707			523	11420	
1971	3900		-	29913			331	10129	
1972	5300		54	38901			192	13511	
1973	4500		-	-			-	-	
1974	6900		58	16822			279	7424	
1975	8000		79	15286			217	6195	
1976	9100		75	6843			368	3004	
1977	9200		64	3412			462	1132	
1978	9400		339	3324			599	1310	
1979	9268		980	6880			588	3996	
1980	12051		82	11816			720	8429	
1981	15538		50	3741			617	2998	
1982	-		68	7389			699	7785	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Margarine, Imitation Lard and other Prepared Fats

ISIC Code	311501								Note:
NSIC Code	3115-01	3115-03							
SITC Code	091.4								
NSTC Code	15.13								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	4400		-	-			-	-	
1971	4400		-	-			-	-	
1972	4200		-	-			-	-	
1973	5200		-	-			-	-	
1974	4400		1195	-			759	-	
1975	5900		2019	-			1146	-	
1976	4400		1095	30			521	46	
1977	4100		501	4			253	3	
1978	6100		918	1			629	1	
1979	6900		356	48			309	37	
1980	-		504	37			320	49	
1981	-		34	167			41	211	
1982	-		1	245			5	323	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Flour, Wheat

ISIC Code	311801								Note:
NSIC Code	3116-01-01-A								
SITC Code	046.01								
NSTC Code	11.01 A								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	45000		-	425272			-	43701	
1971	64000		-	322747			-	34686	
1972	71000		-	306208			85	31475	
1973	68000		-	-			-	-	
1974	48000		34	408200			12	129399	
1975	65000		-	438973			-	142089	
1976	94000		-	330046			-	79004	
1977	73000		-	545375			-	102015	
1978	62000		-	631783			-	140350	
1979	70000		2	475234			3	108530	
1980	58000		-	370477			-	108053	
1981	57000		1	2890			1	1293	
1982	-		-	7189			-	2823	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Raw Sugar

ISIC Code	311801								Note:
NSIC Code	3118-01-01-A								
SITC Code	061.1								
NSTC Code	17.01 A								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	16000		-	1			-	0	
1971	11000		-	-			-	-	
1972	7000		-	-			-	-	
1973	10000		-	-			-	-	
1974	21000		111	4			55	0	
1975	18000		-	-			-	-	
1976	24000		-	-			-	-	
1977	23000		-	-			-	-	
1978	26000		-	-			-	-	
1979	20000		-	52			-	10	
1980	26000		-	22			-	9	
1981	25000		-	90			-	49	
1982	-		200	5445			68	1913	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Sugar Confectionery

ISIC Code	311904								Note:
NSIC Code	3119-01-00-A								
SITC Code	06201								
NSTC Code	17.04								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	2977		13	-			3	-	
1971	3169		1	-			1	-	
1972	3943		16	-			6	-	
1973	1724		-	-			-	-	
1974	2512		30	2			19	7	
1975	485		13	1			14	1	
1976	526		6	0			5	-	
1977	591		2	-			2	-	
1978	1286		2	23			2	68	
1979	2018		-	107			-	267	
1980	-		-	-			-	-	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Tea

ISIC Code		3121*							Note:
NSIC Code									
SITC Code		074.1							
NSTC Code		09.02							
Source		Quantity			Value				
		11	4	4		4	4		
Production		Shipment	Export	Import	Production	Shipment	Export	Import	
Unit		TM	TM	TM			1000\$	1000\$	
1970	212271		208362	-			187964	-	
1971	213297		207471	-			192142	-	
1972	213535		190180	-			188708	-	
1973	211346		-	-			-	-	
1974	204096		175585	-			205185	-	
1975	213775		213453	-			274632	-	
1976	196613		199961	-			247184	-	
1977	208571		185758	-			402551	-	
1978	198989		192756	0			410090	1	
1979	206417		187568	-			367423	-	
1980	191375		184730	-			372158	6	
1981	210148		183879	27			333316	57	
1982	187816		181043	25			304410	61	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Prepared Animal Feeds

IC Code		312201						Note:	
SIC Code		3112							
SITC Code		08199							
NSTC Code									
		Quantity			Value				
Source	6		4	4			4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Exp	Import	
	TM		TM	TM			1000\$	1000\$	
1970	89000		-	-			-	129	
1971	93000		-	634			-	177	
1972	126000		-	865			-	360	
1973	97000		-	-			-	-	
1974	44000		7	194			15	137	
1975	41000		-	223			-	206	
1976	47000		3487	176			262	160	
1977	42000		12	360			2	354	
1978	42000		-	414			-	265	
1979	63000		-	2768			-	148	
1980	81000		-	380			-	865	
1981	-		-	466			8	398	
1982	-		22	153			4	118	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Lanka

Commodity: Beer

ISIC Code	313304								Note:
NSIC Code	3133-01-01-A								
SITC Code	112.3								
NSTC Code	22.03								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Producti.	Shipment	Export	Import	
Unit	KLM		KLM	KLM			1000\$	1000\$	
1970	8846		-				-	-	
1971	7946		-	-			-	-	
1972	8693		-	-			-	-	
1973	7259		-	-			-	-	
1974	5438		3	-			2	3	
1975	5132		-	-			-	35	
1976	5547		-	84			-	49	
1977	7253		-	57			-	33	
1978	8183		-	131			-	95	
1979	7141		2	361			1	264	
1980	7398		0	282			5	238	
1981	5251		3886	408			30	426	
1982	-		4	403			6	435	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: Sri Lanka

Commodity: Cigarettes

ISIC Code	314007								Note:
NSIC Code	3140-03-00-A								
SITC Code	122.2								
NSTC Code	24.02 B								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000000		TM	TM			1000\$	1000\$	
1970	3034713		58	-			52	85	
1971	3183000		27	-			31	35	
1972	3424000		-	-			23	1	
1973	3399616		-	-			-	-	
1974	3912342		3	-			72	1	
1975	4640646		-	-			-	162	
1976	4461000		-	134			-	170	
1977	4481000		-	1040			-	236	
1978	5097999		15	520			91	691	
1979	4637100		43	254			122	844	
1980	5225539		40	44			1319	581	
1981	5538968		7	15			46	372	
1982	-		-	72			-	955	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Cotton Woven Fabrics

ISIC Code	321128								Note:
NSIC Code	3211-02-00-A								
SITC Code	6521								
NSTC Code									
	Quantity				Value				
Source	6		4				4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SMM		1000SMM	1000SMM			1000\$	1000\$	
1970	17000		-	-			-	57	
1971	29000		-	-			-	18	
1972	32000		-	-			-	43	
1973	41000		-	-			-	-	
1974	51000		-	23			254	0	
1975	75000		-	6			4	6	
1976	71000		-	-			5	3	
1977	82000		-	-			-	8	
1978	89000		-	-			-	2316	
1979	56000		-	-			-	1093	
1980	43000		-	-			189	7545	
1981	-		1071	-			677	9040	
1982	-		67	-			453	4218	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Footwear

ISIC Code	324000								Note:
NSIC Code	324								
SITC Code	851.0								
NSTC Code	64								
	Quantity				Value				
Source	11		4				4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	PRM		NOM				1000\$	1000\$	
1970	5813100		381504	-			164	10	
1971	5795621		443544	-			187	12	
1972	6820300		-	-			279	37	
1973	6088548		-	-			-	-	
1974	5322764		-	-			570	6	
1975	6896437		-	-			592	4	
1976	7629923		-	-			567	5	
1977	7751641		-	-			757	5	
1978	7519478		-	-			714	56	
1979	7919478		-	-			854	83	
1980	7663260		-	-			213	113	
1981	9535645		-	-			644	158	
1982	-		-	-			1679	256	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Plywood

ISIC Code	331116								Note:
NSIC Code	3311-06-00-A								
SITC Code	631.2								
NSTC Code	44.15								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	SMH		TN	TN			1000\$	1000\$	
1970	2466692		-	9119			-	1560	
1971	2203360		-	17704			-	3386	
1972	2777709		-	7842			-	1548	
1973	4012488		-	-			-	-	
1974	4564433		43	7194			22	2645	
1975	4832453		44	11688			22	6392	
1976	4420396		17	3866			2	1099	
1977	3516485		26	5780			6	714	
1978	3510484		-	9583			-	4848	
1979	3156750		3	9072			2	5203	
1980	3475299		2	13557			2	9370	
1981	3455222		-	-			-	2508	
1982	-		13	3959			16	2762	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri LankaCommodity: Kraft Paper and Kraft Paperboard

ISIC Code	341125								Note:
NSIC Code	3411-01-07				3411-03-06				
SITC Code	6413								
NSTC Code	48.01 C		48.01 D		48.01 E				
	Quantity				Value				
Source	6		4				4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM				1000\$		
1970	-		-	5636			-	1427	
1971	1000		-	-			-	-	
1972	6000		-	-			-	-	
1973	9000		-	-			-	-	
1974	12000		-	-			-	-	
1975	10000		-	-			-	-	
1976	10000		-	-			-	-	
1977	10000		-	-			-	-	
1978	9000		-	4945			-	2269	
1979	7000		-	12645			-	5109	
1980	5000		-	10143			-	5837	
1981	8000		-	11728			-	7779	
1982	-		-	56053			-	3653	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Soap

ISIC Code	352301								Note:
NSIC Code	3523-02								
SITC Code	554.1								
NSTC Code	34.01								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000\$	1000\$	
1970	18203		30	35			9	16	
1971	19576		42	16			18	11	
1972	25202		141	2			53	2	
1973	25155		-	-			-	-	
1974	18850		102	-			51	-	
1975	19074		517	-			250	1	
1976	15201		3256	0			1375	1	
1977	24295		1748	1			1025	1	
1978	38829		708	1			355	3	
1979	30905		2060	132			1098	162	
1980	-		3168	260			2049	375	
1981	-		904	72			557	119	
1982	-		386	22			295	66	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Motor Gasolene

ISIC Code	353007								Note:
NSIC Code	3530-03-00-M								
SITC Code	332.1*								
NSTC Code	27.10 A		27.10 B						
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	144000		-	32889			225	764	
1971	114000		137	45			9	9	
1972	139000		44	7798			7	523	
1973	122000		-	-			-	-	
1974	99000		25	8581			7	1664	
1975	88000		101	1365			27	486	
1976	100000		460	1061			110	228	
1977	103000		263	3323			74	580	
1978	121000		81475	3831			14052	639	
1979	98000		74491	19			27102	19	
1980	109000		49196	1584			12294	1079	
1981	100000		23736	3			7490	37	
1982	-		205	432			115	385	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Distillate Fuel Oils

ISIC Code	353019 A								Note:
NSIC Code	3530-07-00-M								
SITC Code	332.3								
NSTC Code	27.10 D								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000\$	1000\$	
1970	425000		62176	71865			1312	2193	
1971	332000		4552	-			127	463	
1972	387000		24290	55826			231	1346	
1973	405000		-	-			-	-	
1974	351000		53210	15990			7391	2092	
1975	362000		651	14			102	6	
1976	364000		945	-			121	-	
1977	372000		15	38924			2	4087	
1978	364000		74903	49629			9750	4986	
1979	357000		67130	112027			18302	17182	
1980	384000		57691	30897			19762	9623	
1981	375000		34123	49274			13082	19473	
1982	-		44935	78105			15983	38203	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: Sri Lanka

Commodity: Residual Fuel Oils

ISIC Code	353022 A								Note:
NSIC Code	3530-08-00-M								
SITC Code	332.4								
NSTC Code	27.10 E								
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	698000		274587	-			3065	1803	
1971	671000		93188	-			1199	666	
1972	688000		-	-			9	-	
1973	668000		-	-			-	-	
1974	592000		327348	-			24555	-	
1975	624000		-	-			-	-	
1976	514000		19467	-			2453	-	
1977	547000		40047	16210			2768	118	
1978	547000		350809	39753			25204	1561	
1979	535000		384700	23696			48656	12912	
1980	746000		500913	-			85787	-	
1981	720000		335182	-			70872	-	
1982	-		408263	-			75779	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Cement

ISIC Code	369204								Note:
NSIC Code	3692-01-00-M								
SITC Code	661.2								
NSTC Code									
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	321001		-	-			-	1214	
1971	379810		-	-			-	536	
1972	377100		71	17630			2	382	
1973	415143		-	-			-	-	
1974	473608		53088	102			2413	16	
1975	392978		21946	914			558	61	
1976	423112		973	408			36	64	
1977	355746		300	247			10	43	
1978	575061		237	7228			26	272	
1979	660596		308	54297			15	4864	
1980	622799		200	215167			19	20835	
1981	630944		202	41864			12	5131	
1982	-		1196	142971			110	17658	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Sewing Machines

ISIC Code		382910							Note:
NSIC Code		3829-08-01-i							
SITC Code		717.3							
NSTC Code		84 41							
Source		Quantity				Value			
		6			4			4	4
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import
		NOM			NOM			1000\$	1000\$
1970		39000		-	-			-	1189
1971		34000		-	240049			-	991
1972		38000		-	-			-	872
1973		37000		-	-			-	-
1974		27000		-	-			89	586
1975		15000		-	-			63	588
1976		13000		-	-			38	1079
1977		14000		-	-			89	1063
1978		32000		-	-			22	2974
1979		33000		-	-			9	6175
1980		-		-	-			73	6987
1981		-		-	-			45	6345
1982		-		-	-			7	4233
1983		-		-	-			-	-
1984		-		-	-			-	-

Country: Sri Lanka

Commodity: Radio Receivers

ISIC Code	383204								Note:
NSIC Code	3832								
SITC Code	724.2								
NSTC Code	85.15 D		85.15 E		85.15 F				
	Quantity				Value				
Source	6			4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM			NOM			1000\$	1000\$	
1970	45000		-	1132520			-	382	
1971	25000		-	580731			-	351	
1972	36000		-	-			-	181	
1973	117000		-	-			-	-	
1974	0		-	-			-	119	
1975	44000		-	-			-	317	
1976	55000		-	-			2	235	
1977	75000		-	-			-	201	
1978	59000		-	-			4	2638	
1979	44000		-	-			59	3156	
1980	-		-	-			-	3413	
1981	-		-	-			-	2259	
1982	-		-	-			-	12008	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Bicycles

ISIC Code	384404								Note:
NSIC Code	3844-02								
SITC Code	733.11								
NSTC Code	87.10								
	Quantity				Value				
Source	6			4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH			NOH			1000\$	1000\$	
1970	9000		-	12			-	3	
1971	8000		-	263			-	1	
1972	12000		-	-			-	-	
1973	16000		-	-			-	-	
1974	31000		-	-			1	1	
1975	37000		-	-			2	14	
1976	138000		-	-			-	4	
1977	167000		-	-			-	43	
1978	-		-	-			-	161	
1979	-		-	-			-	1284	
1980	-		-	-			4	12677	
1981	-		-	-			8	4378	
1982	-		-	-			12	1968	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Sri Lanka

Commodity: Watches

ISIC Code		385301							Note:
NSIC Code		3853-01-00-1							
SITC Code		864.11							
NSTC Code		91.01							
Source		Quantity				Value			
		6					4	4	
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import
		NOH						1000\$	1000\$
1970		6000		-	-			-	2
1971		7000		-	-			-	9
1972		10000		-	-			-	5
1973		1000		-	-			-	-
1974		1900		-	-			-	14
1975		3000		-	-			-	25
1976		2000		-	-			-	48
1977		7000		-	-			-	35
1978		0		-	-			31	1804
1979		1000		-	-			-	1734
1980		-		-	-			-	1749
1981		-		-	-			-	370
1982		-		-	-			96	1913
1983		-		-	-			-	-
1984		-		-	-			-	-

**PART IV**

**PAKISTAN**

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Converter between ISIC and National  
Classification
- IV. Commodity Balance Sheets

I.           **Explanatory Notes on Manufacturing Statistics**

I-1    Annual census of manufacturing industries(CMI)  
          Federal Bureau of Statistics.

I-2    Annual Census of manufacturing industries(CMI)  
          Government of the Punjab(Sind).

I-3    Survey of small and household manufacturing  
          industries 1976-77.  
          Federal Bureau of Statistics.



## PAKISTAN

ANNUAL CENSUS OF MANUFACTURING INDUSTRIES (CMI)  
Explanatory NotesFederal Bureau of Statistics  
Statistics DivisionIntroduction

The Census of manufacturing industries (CMI) provides basis statistics in respect of manufacturing establishments in Pakistan. The report covers the period from July to June and provides information on such aspects as fixed assets, inventories, employment & employment cost, industrial cost, products & by-products and value added.

Scope and coverage

CMI is conducted under the Industrial Statistics Act, 1942 and covers those establishments which are engaged in manufacturing activities, whether for the whole or part of the year and are registered under Section 2(j) and 5(1) of the Factories Act, 1934. The defence and Government establishments including railway workshops though engaged in manufacturing activities and registered under the said Act, however, are excluded. Section 2(j) refers to factories which employ 20 or more workers on any day during the year and use power in their manufacturing operation. Section 5(1) pertains to the factories wherein a manufacturing process is carried on or is ordinarily carried on whether with or without the use of power whenever ten or more workers are working therein or have worked there on any day of the 12 months immediately preceding.

Planning and execution of Census

The CMI results for the year 1980-81 are the product of the joint efforts of the Federal Bureau of Statistics and Provincial Directorates of Industries and Provincial Bureaus of Statistics. The work has been carried on according to the following arrangements:

Federal Bureau of Statistics

- i) Planning of the Census
- ii) Preparation of questionnaire, tabulation plan and editing instructions
- iii) Preparation and publication of CMI report
- iv) Maintenance of list of manufacturing establishments by provinces
- v) Editing, coding and mechanical processing of data for Sind and Baluchistan.

## Provincial Directorates of Industries and Mineral Development

- i) Printing and mailing out of questionnaires
- ii) Notification of the questionnaire in the government gazette
- iii) Collection of returns
- iv) Classification and preliminary editing of CMI returns

## Provincial Bureaus of Statistics

- i) The editing, coding and processing of CMI data for Punjab & N.W.F.P. were done by Bureau of Statistics Punjab.
- ii) Estimation of CMI data in respect of non-response cases etc.

## Collection of Returns and Non-response

CMI questionnaires are issued to the factories as per list of manufacturing establishments compiled by the Statistics Division on the basis of monthly statements of registrations and cancellations received from the Chief Inspector of Factories and the Joint Director, Labour Welfare of Provinces. The CMI is conducted through mail enquiry supplemented by filed visits. The collection is done by the agency appointed for the purpose under the Industrial Statistics Act, 1942. The Act empowers a Provincial Government to appoint an officer to collect data in connection with the census. The Statistics Authority after collection passes on the returns to Provincial Bureau of Statistics. The position about collection of returns and non-response for Pakistan is as follows:

	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81
i) No. of factories on the mailing list.	5,336	5,195	5,642	5,515	5,420	5,668
ii) No. of returns received back duly filled-in.	3,607	3,827	4,226	4,188	4,230	4,301
iii) No. of factories remained closed or ceased to exit as reported by Provincial Directorates of Industries.	514	333	735	437	553	468
iv) No. of non-responding factories.	1,215	1,185	681	890	637	899
v) No. of factories qualified for tabulation and included in the report.	3,248	3,373	3,676	3,715	3,750	3,815
vi) No. of returns rejected in edition due to non-manufacturing activities and defective data etc.	359	454	550	473	480	486

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## Reporting Unit

The reporting unit of the census is a factory registered under Factories Act, 1934 with single or joint ownership or control where the major economic activity is manufacturing. If, however, an establishment is engaged in more than one activity and separate accounts are maintained by the establishment for each activity, then separate returns are collected for each such activity.

## Classification

An establishment is classified in a particular industry on the basis of gross value of major products & by-products or services rendered, falling within the scope of manufacturing activity according to Pakistan Standard Industrial Classification (PSIC), 1970.

## Definitions of important terms

i) Fixed assets consists of land and building, plant and machinery and other fixed assets (e.g. furniture and fixtures, durable spare parts, trade marks etc.) which are expected to have a production life of more than one year and are in use by the establishment for the manufacturing activity. The reported value is at the end of the year after taking into account the net value of additions and alterations by deduction value of sales and loss due to theft or fire. It includes depreciation during the year. The land includes all the land owned by the factory at its location in addition to land on which factory buildings are situated. Buildings mean all the buildings at factory location used directly or indirectly for the manufacturing process, godowns and buildings used for workers welfare purposes such as residences, canteens etc. are also included. Plant & Machinery include machines, hand tools and other mechanical equipments used in manufacturing process by exclude spare parts which are chargeable to current operating expenses. Other fixed assets mean all fixed assets not included in the categories listed above, such as vehicles, furniture, fixtures etc.

Sale during the accounting year includes value of land, building, plant and machinery and other fixed assets etc. used by the establishments and sold during the accounting year regardless of their condition etc. The fixed asset sold were valued according to the actual proceeds received from them.

Loss during the accounting year means loss of fixed assets caused due to flood, fire, earthquake, theft and other unforeseen reasons. It was valued at the actual book value of the assets.

Depreciation means allocation of operating expenses of the cost of the physical assets over the accounting year. The provision is made to cover the wear and tear of all fixed assets maintained in the books.

Book value at the end of the accounting year is equal to the book value at the beginning of the accounting year plus additions and alterations made during the accounting year, less sales during the accounting year, less value of loss and the depreciation charged for the year.

ii) Inventories include value of stocks of raw materials, fuels, finished products and work in process. Raw materials to be sold in the same condition as purchased are also included.

iii) Employees mean all persons whether part-time or full time, who work primarily at the establishment premises; working proprietors, unpaid family workers, contract labours and home workers are excluded. Production workers mean those who are engaged on production work directly. It includes those engaged in manufacturing, assembling, packing, repairing etc. Working supervisors and persons engaged for repair and maintenance are also included. Non-production employees include administrative and professional employees, while collar office employees, drivers, watchmen, peons, sweepers etc. Contract labour means those persons who are engaged through labour contractor or sub-contractor for manufacturing process.

iv) Wages and Salaries mean payment made to employees as remunerations for their work. It includes dearness allowance and payment for leaves. Cash benefits include conveyance allowance, house rent allowance, compensatory and other such allowances, bonuses, employer's contribution to provident fund and commissions. Amount of gratuity and pension is excluded. Non-cash benefits mean goods and services provided to employees free of cost or at subsidised rates. These include rent-free accommodation, medical facilities, transportation facilities, cheap and free consumer goods etc.

v) Fuels mean coal, coke, charcoal, firewood, fuel oils, gas, electricity and other such items which are consumed in generating power. Fuels consumed for generation of electricity are also included.

vi) Raw materials mean raw and semi-finished materials, assembling parts, etc. that are physically incorporated in the products and by-products made; chemicals, lubricants and packing materials that are consumed in the production and spare parts that are charged to current operating expensed are included. Raw materials given to other establishments for manufacturing goods (semi-finished and finished) on behalf of the establishment are included, whereas raw materials supplied by other for manufacturing goods on their behalf are excluded.

vii) Payment for work given out means the amount paid to other establishments for the work done by them on the raw materials supplied by the establishment. This also included payment to home work.

viii) Products and by-products include only final products and by-products of the establishment and exclude intermediate products and by-products used as raw materials for final products of the establishment. Products and by-products manufactured by others on behalf of the establishment for which raw material was supplied are included, whereas products manufactured on behalf of others from the raw materials supplied by them are excluded. Products and by-products are valued at the price actually charged or to be actually charged from customers. Transportation charges are excluded.

ix) Receipts for work done for others means the amount charged from the customers for the work done for them on their raw materials, repair and maintenance work, service performed etc.

x) Industrial cost it consist of cost of fuel, electricity, and raw-material consumed and payment made to others for processing or work done on material provided by establishment.

xi) Value of production means items produced or manufacturing process. In addition to the data on value of individual item produced, data regarding value of by-products, wastes, electricity generated and sold (if any) and of fixed assets produced by the establishment for its own use (if any) are included. Valuation of individual item of products and by-products is made at the ex-factory price which include indirect taxes (excise duty, sales tax etc.) and exclude transport cost outside factory gate.

xii) Value added includes value' of products and by-products including industrial waste, receipts from sale of electricity, receipt from industrial work done or services rendered to others and work in process at the end of the year and excluded cost of raw materials consumed, payment to others for work done on factory's materials including payment to home workers, payment to others for repair and maintenance work, cost of fuel (both for manufacturing and generation of electricity) and electricity consumed and work in process at the beginning of the year.

#### Limitations of the census data

i) The Census of Manufacturing Industries is conducted on the basis of pre-determined frame, i.e. factories registered with the Chief Inspector of Factories under Factories Act, 1934. The frame may be incomplete due to following reasons:

a) Some factories eligible for registration may not have got themselves registered.

b) Some factories which might have gone out of operation may not have been reported but their names appear in the frame.

ii) There is considerable amount of non-response but due to shortage of resources it has not been possible to undertake post census/survey so as to make estimates for non-response.

Publications

Year	Exist	No exist	Missing
1969-70	x		
1970-71			x
1971-72		x	
1972-73		x	
1973-74		x	
1974-75		x	
1975-76	x		
1976-77	x		
1977-78	x		
1978-79	x		
1979-80	x		
1980-81	x		

PAKISTAN

ANNUAL CENSUS OF MANUFACTURING INDUSTRIES (CMI)  
Explanatory Notes

Bureau of Statistics  
Government of the Punjab (Sind)

Introduction

The Census is conducted under Industrial Statistics Act 1942, under a co-operative programme shared by Statistics Division, Government of Pakistan; Directorate of Industries and Mineral Development, Punjab (Sind) and Bureau of Statistics, Punjab (Sind) with the following distribution of work:

Statistics Division:

- a) Planning of Census with collaboration with Provincial Bureau of Statistics and Directorates of Industries.
- b) Preparation of questionnaire, tabulation plan and editing instructions, in consultation with all concerned Federal Industries, Provincial Departments and Autonomous & Private Organizations.
- c) Preparation and publication of CMI tables on national level.
- d) Maintenance of an upto date list of manufacturing establishments.

Directorate of Industries and Mineral Development, Punjab (Sind):

- a) Notification of the questionnaires.
- b) Printing and mailing out of questionnaires.
- c) Collection of CMI returns.
- d) Preliminary editing of CMI returns.

Bureau of Statistics, Punjab (Sind):

- a) Statistical examination and computer processing of Census returns.
- b) Conducting of non-response survey for estimation of data for the establishment not reporting for the Census.
- c) Publication of Provincial Census Results.



## Scope and coverage:

All factories, carrying on manufacturing or repairing activities and registered under the Factories Act 1934, are covered under the Census. It, however, excluded Defence and other Government establishments including Railway Workshops which provide ancillary facilities, and do not manufacture or repair anything for commercial purpose.

## Definitions:

### i) Registered factories

An establishment is said to be registered under Factories Act 1934, if ten or more workers are working on any day of the preceding twelve months and in any part of which manufacturing process is being carried on with the aid of power or is ordinarily so carried on, but does not include mine subject to the operation of Mines Act 1923.

### ii) Gross value of fixed assets

It includes the gross value of land, building, machinery and other fixed assets i.e. equipment, vehicles, furniture etc., as at the end of the year.

### iii) Employment

It is the total average daily employment computed from the quarterly/monthly employment data reported in CMI returns adjusted for contract labour.

### iv) Employment cost

It includes wages and salaries, each and non-cash benefits and the amount paid to contract labour.

### v) Industrial cost

It includes cost of raw materials, fuel and electricity and payments to others for work done and for repair and maintenance of the equipment.

### vi) Gross value of industrial production

It includes value of productions and by products, sale-proceeds from industrial waste, receipts for industrial work done for services rendered to others, sale of electricity and value of "net work in process." The value of products and by-product includes indirect taxes.

### vii) Gross value added

This is worked out by subtracting industrial cost from the gross value of industrial production.

### Limitations of CMI

- 1) The mailing list used for the census may not be up to date.
- 2) The reported data contained reporting errors and inconsistencies, which were corrected on the basis of available supplementary information or/and past date.
- 3) Census results become available with a time-lag of 2-3 years due to the time taken for collection, editing and tabulation processes.
- 4) Size and nature of non-response varies from year to year. Since non-response survey could not be conducted and Census results were not adjusted for non-response, they may not be comparable from year to year.

The Bureau of Statistics have, during recent years, taken the following steps to improve the Census Results:

- 1) List of registered factories is being kept up to date.
- 2) Reported data is subjected to manual as well as computer statistical editing, before final tabulation. Missing information is estimated.
- 3) Prior to 1971-72, no information was available to provide a check on reported census information. A current Industrial Statistics Survey was started in 1971, under which monthly summary data on some aspects of manufacturers activity of important industries is collected. This data which has been shown on current industrial statistics is also referred to during editing of CMI returns.
- 4) Efforts are being made to complete editing and tabulation as early as possible, after collection of returns by Directorate of Industries and Mineral Development, Punjab (Sind).

## PAKISTAN

SURVEY OF SMALL AND HOUSEHOLD MANUFACTURING INDUSTRIES 1976-77  
Explanatory NotesFederal Bureau of Statistics  
Statistics DivisionIntroduction

The small and household manufacturing sub-sector is gaining great importance due to its contribution to gross national product. The data on small and household manufacturing industries are useful to government for planning and policy making and also for manufacturers themselves for inter-industry and intra-industry comparison of various factors of production.

Statistics Division (now Federal Bureau of Statistics) embarked upon the survey of small and household manufacturing industries in urban areas of all the four provinces of the country in November, 1976. The report in hand is the fifth in the series and relates to Pakistan. Earlier, the provisional reports relating to the N.W.F.P., Baluchistan, Sind and Punjab provinces were released during September, 1978, April, November and December, 1980 respectively. This report provides in summary form the statistical picture of the small and household manufacturing industries in the urban areas of Pakistan.

Objectives of the survey

The survey was planned to achieve the following objectives:

- i) To provide data on small and household manufacturing industries on investment of fixed assets, employment, employment cost, industrial cost, value of products and by-products manufactured and value added.
- ii) To prepare estimates of value added derived from the small and household manufacturing industries for estimating gross national product.
- iii) To develop a frame for conducting specific sample surveys in future on yearly basis and to determine growth and development of small and household manufacturing industries.

Definition of small and household manufacturing establishment

Small manufacturing establishment: If an establishment is engaged in the manufacturing activity and the value of its

fixed assets (excluding value of land) on the date of enquiry does not exceed Rs.2 million, this establishment has been considered as a small manufacturing establishment.

**Manufacturing household:** If in a household people are living and also carrying on some manufacturing activity then this household has been treated as a manufacturing household unit.

Following activities, though apparently manufacturing activities, are excluded from the scope of this survey:

- i) Hotels and restaurants manufacturing bakery products to be served wholly or partly in hotels and restaurants as subsidiary economic activity.
- ii) Drugs and medicines manufactured by consulting physicians and hakims.
- iii) Preparation of sweetmeats and related products like gajak, batasha, misri, halwa and other eatable like pakora, samosa, puri, dahibara, curd and boiled milk etc.
- iv) Repair of watches, clocks, cycles, tyres and tubes, television, radio, refrigerator, electric iron and gas stove and cooker, canning of chairs, sharpening of knives etc.
- v) Tailoring including un-stitching and re-shaping of old and used clothings, jute bags etc.
- vi) Plumbing, fitting and repair of electric fixtures.
- vii) Darning and dyeing done as subsidiary of dry cleaning activity.

#### Survey plan:

The current enquiry was a census-cum-sample survey. Cities/towns where special type of industries are located were completely enumerated. List of such towns is given at annexure - 'A'.

Lahore, Faisalabad, Rawalpindi, Kasur, Sialkit, Jhang, Karachi, Hyderabad, Sukkur and Quetta being the large cities of Pakistan having a population of over one hundred thousand, were divided into industrial and non-industrial areas. Enumeration blocks of each large city where special type/large number of industries are located were grouped together to form industrial areas which were completely enumerated. The non-industrial areas of the city were covered through sample survey. Towns where incidence of industrial activity was rare, were also covered on sample basis. In the N.W.F.P. however, complete census was undertaken.

### Collection of data:

The survey was conducted through interview method and form SI-I (Annexure 'B') was used for this purpose. The enumerators were required to visit such establishments/households where some manufacturing activities were carried out and where an investment in fixed assets (excluding land) did not exceed Rs.2 millions.

All the requisite informations such as listing, maps and also the description of the boundries of enumeration blocks, cities and towns were provided to each enumerator for field coverage.

### Reporting unit and classification:

The reporting unit for form SI-I was a establishment or a household at a single location under a single or joint ownership or control where the major economic activity was manufacturing.

All reporting units have been classified according to Pakistan Standard Industrial Classification (PSIC) which was based on international Standard Industrial Classification (ISIC). The results presented in this report have been shown at 3 digit (major group) level of the classification except the first 3 tables for Pakistan which have been presented at 5 digit (industry) level.

### Concepts and definitions of items:

In the concepts and difinitions given below the term establish-ment is also applicable to the household units.

- i) Manufacturing activity is defined as the mechanical or chemical transformation of inorganic or organic substances into new products whether the work is performed by power driven machines or by hand or whether it is done in a factory or in the worker's house. The assembly of component parts of manufactured products was also considered as manufacturing.
- ii) Fixed assets include land, residential and non-residential building, machinery, tools and other transport and office equipment.
- iii) Additions and alterations made during the accounting year include the cost of all additions and alterations in fixed assets either obtained from other establishment or produced by its own employees. The data includes the value of all physical assets (both new and used building, machinery,

equipment and vehicles) which are expected to have a productive life of more than one year and intended for use by the establishment. Included are major additions, alterations and improvements to existing fixed assets that extend their normal economic life or raise their productivity. The valuation of fixed assets acquired from other is done at the full cost incurred, that is, at the delivered price plus the cost of installation, including necessary transfer fee and taxes.

- iv) Sale during the accounting year includes value of land, building, plant and machinery and other fixed assets etc. used by the establishment and sold during the accounting year regardless of their condition etc. The fixed assets sold were valued according to the actual proceeds received from them.
- v) Loss during the accounting year means loss of fixed assets caused due to flood, fire, earthquake, theft and other unforeseen reasons. It was valued at the actual book value of the assets.
- vi) Depreciation means allocation of operating expenses of the cost of physical assets over the accounting year. The provision is made to cover the wear and tear of all fixed assets maintained in the books.
- vii) Book value at the end of the accounting year is equal to the book value at the beginning of the accounting year plus additions and alterations made during the accounting year, less sales during the accounting year less value of loss and the depreciation charged for the year.
- viii) Number of persons engaged means the number of persons engaged on the date of enquiry, persons on short term leave such as sick leave, annual leave or vacation and on strike are to be included, however, those on pension or on indefinite leave are excluded.
- ix) Production workers include all persons whether employees or self employed who are directly engaged in the production or related activities of the establishment.
- x) Other workers include all persons whether employees or self employed, other than production workers as defined above. In this category included are administrative, technical and clerical employees such as salaried managers, laboratory and research workers, clerks, typists, watchmen, accountants, administrative supervisors, salesmen, sweepers etc.
- xi) Self employed are persons, who are proprietors, partners and unpaid family workers who are actively engaged in the work of the establishment whether in the manufacturing process or other managerial/clerical activities, and who have

worked for at least 15 hours during the last week and who do not draw any regular pay.

- xii) Employees are those persons who work for wages and salaries i.e. receive regular pay, whether daily, weekly or monthly basis.
- xiii) Wages and salaries paid during the last accounting year are reported as wages and salaries including payments for leave or vacation. It covers payments made for the work done on piece rate, hourly, weekly monthly, or by any other method of compensation and for regular time and over time including commission etc.
- xiv) Cash and non-cash benefits paid include group insurance contribution, provident fund contribution made by the employer. There are certain other payments in kind which are given to the employees. These include goods and services furnished to the employees free of cost or at subsidised or reduced rates which are primarily of benefit to employees as consumers. Such items are prepared food and drinks, clothings, cloth etc. The cost of such payments made in kind is estimated and included under these benefits. These are certain other expenditures by establishments (employers) which are of benefit of themselves as well as to the employees, e.g. amount spent on the amenities at the place of work, medical treatment, sports and other recreational facilities, entertainments and similar other expenditures. These are also estimated and included.
- xv) Employment cost includes wages and salaries paid plus cash and non-cash benefit paid to the workers.
- xvi) Cost of fuel and electricity consumed includes items like coal, coke, charcoal, firewood, petrol, diesel oil, lubricating oils and other fuel oils etc., which are used for the production of goods and services. Fuel and electricity consumed mean all items of fuel, electricity and natural gas consumed.
- xvii) Payments made to others for work done on establishment's materials include all payments made by the household/  
establishment for contract and commission work (or any other work) done by others on the materials supplied by the household/establishment.
- xviii) Miscellaneous cost incurred includes certain expenditure made by establishments to carry on their manufacturing activity. These include expenses on advertising and selling, postage, telegraph and telephone, insurance, printing, stationery, other office supplies and expenses for banking, legal, accounting & auditing etc.

- xix) Raw material means raw and semi-furnished material, assembling parts, etc. which is physically incorporated the products and by-products made, chemical, lubricants and packing material that is consumed in the production and spare parts which is charged to current operating expenses is included. Raw material given to other establishments for manufacturing goods (semi-finished and finished) on behalf of the establishment is included, where as raw-material supplied by other for manufacturing goods on their behalf is excluded.
- xx) Industrial cost means the cost of fuel, electricity and cost of raw material consumed.
- xxi) Products and by-products manufactured include items produced or manufactured in the manufacturing process. In addition to the data on value of individual items produced, data regarding the value of by-products, wastes and of fixed assets produced by the establishment for its own use (if any) are included. Valuation of individual items of products and by-products is made at the ex-factory price or sales and net of discount, rebates and allowances and including indirect taxes i.e. sales tax and excise duty.
- xxii) Receipt for work done for others includes the receipts from work done for others or for services of an industrial nature rendered to others. For example, work done on contract or commission basis for other establishments on their material or repair and maintenance work on machinery and equipment. The value reported included the total cost charged to customers for the work or services performed.
- xxiii) Value added is derived as value of products and by products plus receipts from work done others minus cost of fuel and electricity consumed minus payments made to others minus cost of raw materials consumed.

#### Editing and tabulation of data

After completion of the field work, the filled-in schedules were checked, edited and coded according to prescribed procedure in order to ensure the reasonableness of entries made therein. Filled-in schedules were referred back to the Field Offices for correction and clarification, if not found acceptable. In those cases where the information supplied was too scanty or inconsistent, the relevant schedules were not accepted for processing. After editing, the checked/coded schedules were sent to computer unit for punching, listing and preparation of tabulations according to pre-determined tabulation plan.



### Salient features of the survey

The number of units covered through complete enumeration is 54,395 whereas 7,095 units were enumerated on sample basis. The estimated number of units based on sample enumeration comes to 54,247. Thus the over all number of units for which the results are presented comes to 108,642 of which the small establishments numbering 77,148 (71.01%) and household units numbering 31,494 (28.99%). These units produced goods and services worth Rs.6,205.46 million during the year 1976-77, and of which the contributions of household units was Rs.682.44 million (11.00%). In Pakistan, the small and household manufacturing sector engaged 379,949 persons out of which the household units engaged 78,799 persons (20.74%). Paid employees numbered 184,828 while the rest were self employed or unpaid family helpers. The employees persons received Rs.579.59 million as wages and salaries etc. during the year under review. The value added contributed by this sector in the country come to Rs.2,599.62 million of which the share of household units was Rs.370.66 million (14.26%) and that of small manufacturing establishments Rs.2,228.96 million (85.74%).

In terms of number of units, the textile industries topped the list numbering 33,819 units followed by footwear industries numbering 9,454 units. In terms of production the textile industry was ahead of all industries showing production value of Rs.2,515.11 million followed by food manufacturing industries, the production value of which was of the order of Rs.724.07 million. As regards value added the textile industry contributed Rs.871.56 million followed by food manufacturing industries which made a contribution of Rs.225.02 million. In terms of employment the textile industry was ahead of all industries employing 128,581 persons followed by other non-metallic mineral products which employed 30,990 persons. Thus it may be seen that the textile industry is the main industry in terms of number of units, employment size, value added and value of production.

Following is the ranking in terms of value of production:-

<u>S. No.</u>	<u>Industries</u>	<u>Value in '000'Rs.</u>	<u>%</u>
1.	Manufacture of textiles	2,515,109	40.53
2.	Manufacture of food	724,068	11.67
3.	Manufacture of fabricated metal products except machinery & equipment	478,254	7.71
4.	Manufacture of other non-metallic mineral products	319,052	5.14
5.	Manufacture of footwear except vulcanized/moulded rubber/plastic footwear	289,249	4.66
6.	Manufacture of machinery except electrical	230,034	3.71
7.	Manufacture of jewellery-precious metal including imitation jewellery	212,817	3.43
8.	Manufacture of furniture & fixtures except primarily of metal	209,273	3.37
9.	Manufacture of wood and wood and cork products except furniture	152,982	2.47
10.	Manufacture of tobacco	114,504	1.84
11.	All other industries	960,119	15.47

The industries in descending order in terms of value added as under:-

<u>S. No.</u>	<u>Industries</u>	<u>Value in '000'Rs.</u>	<u>%</u>
1.	Manufacture of textiles	871,561	33.53
2.	Manufacture of food	225,020	8.66
3.	Manufacture of fabricated metal products except machinery & equipment	212,403	8.17
4.	Manufacture of other non-metallic mineral products	160,882	6.19
5.	Manufacture of footwear except vulcanized/moulded rubber/plastic footwear	140,080	5.39
6.	Manufacture of machinery except electrical	131,209	5.05
7.	Manufacture of furniture & fixtures except primarily of metal	113,583	4.37
8.	Manufacture of jewellery-precious metal including imitation jewellery	107,757	4.14
9.	Manufacture of wood and wood and cork products except furniture	88,486	3.40
10.	Manufacture of tobacco	66,129	2.54
11.	All other industries	482,506	18.56

Industries engaging higher number of persons in the descending order are given below:-

<u>S. No.</u>	<u>Industries</u>	<u>Total No. persons</u>	<u>%</u>
1.	Manufacture of textiles	128,581	33.84
2.	Manufacture of other non-metallic mineral products	30,990	8.16
3.	Manufacture of fabricated metal products except machinery and equipment	29,535	7.77
4.	Manufacture of food	23,653	6.23
5.	Manufacture of footwear except vulcanized/moulded rubber/plastic footwear	20,617	5.43
6.	Manufacture of tobacco	17,443	4.59
7.	Manufacture of machinery except electrical	16,534	4.35
8.	Manufacture of furniture & fixtures except primarily of metal	16,435	4.32
9.	Manufacture of jewellery-precious metal including imitation jewellery	15,175	3.99
10.	Manufacture of wood and wood and cork products except furniture	14,008	3.69
11.	All other industries	66,978	17.63

According to the percentage distribution of small & household manufacturing establishments, Punjab province ranks number one with 61.02% concentration of industries while the provinces of Sind, N.W.F.P. & Baluchistan occupy 2nd, 3rd and 4th position with 33.16%, 5.27% and 0.55% of the total units respectively.

Percentage distribution of small manufacturing establishments according to the employment size is given below:-

<u>Upto</u>	<u>Persons</u>	<u>%</u>
5	"	86.32%
6-9	"	9.57%
10-19	"	3.12%
20-49	"	0.63%
50-99	"	0.09%
100-above	"	0.27%

#### Share of registered factories

In the above analysis of small manufacturing establishments were also included 405 registered under the Factories Act, 1934. These units had an employment of 7,468 persons with

annual value of production to Rs.268.68 million while they contributed a value added equivalent to Rs.9.29 million which is 3.43% of the total value added of small and household manufacturing sector in Pakistan.

#### Limitations and deficiencies

The report has some limitations in respect of degree of accuracy of data on account of the following reasons:-

- i) The owners/occupiers of the units in most cases are uneducated and they generally did not appreciate the importance of the survey. Sometimes they were found to be reluctant in the supply of data on account of fear for taxation and information actually furnished by them could be biased to some extent.
- ii) The owners of small and household manufacturing units do not usually maintain accounts of their business. Whatever information that has been obtained was usually through monthly estimates. The interviewers, therefore, had to make cross checking of their replies to ensure internal consistency of data.
- iii) Data on fixed assets in most cases, is based on verbal estimates provided by the respondents as they did not maintain proper records of such assets.
- iv) Figures on employment cost, industrial cost, miscellaneous cost and value of production were collected mostly on 'last month' basis. The yearly figures have been arrived at by multiplying the monthly figures by number of months worked by the establishment/household unit during the reference period.

# ANNEXURES

ANNEXURE 'A'LIST OF CITIES/TOWNS COMPLETELY ENUMERATEDA - PUNJAB

<u>Districts</u>	<u>Towns</u>	<u>Districts</u>	<u>Towns</u>
Campbellpur	1. Hazro M. C.	Sialkot	1. Daska
"	2. Campbellpur	"	2. Narowal
"	3. Hassanabadal	D. G. Khan	1. Dera Ghazi Khan
"	4. Fateh Jang	Muzaffargarh	1. Muzaffargarh
"	5. Pindi Gheb	Multan	1. Multan
"	6. Talagang	"	2. Vehari
Gujrat	1. Gujrat	"	3. Mandi Burrewala
"	2. Kunjah	"	4. Kabirwala
"	3. Jalapur Jattan	"	5. Abdul Hakim
Sargodha	1. Sargodha	"	6. Mian Channu
Mian-wali	1. Darya Khan	"	7. Tulamba
Faisalabad	1. Toba Take Singh	Sahiwal	1. Chichawatni
"	2. Kamalia	"	2. Sahiwal
"	3. Samandari	"	3. Okara M. C. & Cantt
"	4. Chak Jhumra	"	4. Renala Khurd
Jhang	1. Chinlot	"	5. Pakpattan
Lahore	1. Khana Nau	"	6. Arif Wala
"	2. Lulliani	Bahawalpur	1. Bahawalpur
"	3. Pattoki	"	2. Ahmadpur East
Gujranwala	1. Eminabad	Bahawalnagar	1. Chishtian
"	2. Kamoke	Rahim Yar Khan	1. Rahim Yar Khan
"	3. Gujranwala	"	2. Sadiqabad
"	4. Wazirabad	"	3. Ahmadpur Lamma
Sheikhupura	1. Dhaban Singh		
"	2. Muridke		
"	3. Nankanasahib		
"	4. Sangla Hill		
"	5. Sheikhupura		
"	6. Warburton		

B - SIND

<u>Districts</u>	<u>Towns</u>
Jacobabad	1. Kashmir
Khairpur	1. Khubra Town
"	2. Gambat
Hyderabad	1. Hala
"	2. Matiari
"	3. Tando Allah Yar
"	4. Tando Mohammad Khan
"	5. Nasar Pur

<u>Districts</u>	<u>Towns</u>
Tharparker	1. Digree
"	2. Umar Kot
"	3. Mir Wah
"	4. Pithoro
Badia	1. Matli
Dadu	1. Sehwan Sharif
Sanghar	1. Tando Adam

C - N.W.F.P.

Hazara	1. Abbotabad
"	2. Nawan Sharif
"	3. Havellian
"	4. Murree Gallies
"	5. Haripur
"	6. Mansehra
"	7. Baffa
"	8. Haripur Industrial Area
"	9. Ghazi
Kohat	1. Kohat M.C. & Cantt.
"	2. Hangu
"	3. Tal
Mardan	1. Mardan M.C. & Cantt.
"	2. Nawankilli
"	3. Swat
"	4. Takhat Bhai
"	5. Tarbela Dam (R.B.)
"	6. Topi

Swat	1. Mingora
"	2. Sidu Sharif
Bannu	1. Bannu M.C. & Cantt.
"	2. Lakki Marwat
Peshawar	1. Charsadda
"	2. Tangi
"	3. Utmanzal
"	4. Shabqadar
"	5. Nowshera
"	6. Pabli Town
"	7. Jehangira Industrial Area
"	8. Akhora Khattak
"	9. Peshawar M.C.
"	10. Peshawar University
"	11. Amangarh

ANNEXURE 'A'

Districts

Deera Ismail Khan

"  
"  
"

Towns

1. D. I. Khan M. C. & Cantt.
2. Peharpur
3. Kulachi
4. Tank

Districts

Towns

D - BALUCHISTAN

Quetta

"  
"

Sibbi

"

1. Quetta M. C. & Cantt.
2. Pishien
3. Chaman

1. Sibbi M. C.
2. Usta Mohammad

Lora Lal

"

Zhob

Chaghi

Kalat

Makran

1. Sanjawal Bazar

2. Lora Lal

1. Zhob

1. Naushki

1. Mastung

1. Turbat





4. **Registration Status:**

Whether the establishment is registered:

Yes

1

No.

2

If, yes: under Factories Act, 1934: Section 2 (J)

1

Section 5 (J)

2

Under any other Act/Rule/Organisation \_\_\_\_\_

(Specify)

5. **Major manufacturing activity** \_\_\_\_\_

(Code)

6. **Year of commencement of production**

7. **Accounting period:**

Jan-Dec.

April-March

July-June

Oct-Sept.

Any other \_\_\_\_\_

(Specify)

8. **Number of shifts worked per day:**

9. **Fixed Assets:**

(Value in Rs.)

Item	Book value at the beginning of the accounting year	Additions/alterations made during the accounting year	Sale during the accounting year	Loss during the accounting year	Depreciation during the year	Book value at the end of the year	Rent/Lease paid during the accounting year
1	2	3	4	5	6	7	8
1. Land							
2. Building							
3. Plant, machinery, tools & other equipment (except transport equipment)							
4. Transport equipment							
5. Furniture & fixtures							
6. Office equipment							
<b>Total</b>							

**10. Employment and employment cost:**

Type of employment	No. of persons engaged on the date of enquiry			Wages & salaries paid during last		Cash & non-cash benefits paid during last	
	Total	Paid	Unpaid	Calendar month (Rp)	Accounting year (Rp)	Calendar month (Rp)	Accounting year (Rp)
1	2	3	4	5	6	7	8
1. Production workers= Employees			XX				
2. Production workers= Self-employed		XX					
3. Other workers = Employees			XX				
4. Other workers = Self-employed		XX					
Total =							

10. (a) No. of months worked during last 12 months from date of enquiry	
---	--

During last calendar month (Rp)	During last accounting year (Rp)
1	2

**11. Cost of fuel & electricity consumed:**

1. Electricity
2. Gas
3. Other fuels
- Total




**15. Products & by-products manufactured:**

Item of products/by-products	Item code	Unit of quantity	Unit of quantity code	Products manufactured during last			
				Calendar month		Accounting year	
				Quantity	Value (Rs)	Quantity	Value (Rs)
1	2	3	4	5	6	7	8
<b>Total</b>		<b>XX</b>	<b>XX</b>	<b>XX</b>		<b>XX</b>	

During last Calendar month	During last Accounting year
1	2
Rs	Rs

**16. Receipts from work done for others on their material**

---

17. Installed capacity on single shift basis for the calendar month:

Item of product/ by-products	Item code	Unit of quantity	Unit of quantity code	Installed capacity
1	2	3	4	5

/

**18. Indirect Taxes & Interest paid:**

Tax/Interest	Paid during last accounting year (Rs)	Paid during last calendar month			Remarks
		Monthly (Rs)	Quarterly (Rs)	Yearly (Rs)	
1	2	3	4	5	6
1. Sales Tax					
2. Excise Duty					
3. Municipal Tax					
4. Interest on loans					
5. Other indirect taxes (Specify _____)					
<b>Total</b>					

**19. Inventories (stocks)**

Item	Value of stocks at the		Value of stocks at the	
	Beginning of last calendar month (Rs.)	End of last calendar months (Rs.)	Beginning of last accounting year (Rs)	End of last accounting year (Rs)
1	2	3	4	5
1. Raw materials				
2. Fuels				
3. Finished & semi-finished products				
<b>Total</b>				

**20. Details of machinery installed (for selected industries-refer list)**

Description of machinery	Machinery code	Number (quantity)	Whether manual (1) or Power driven (2)	Remarks
1	2	3	4	5
1.				
2.				
3.				
4.				
5.				
6.				

Filled-by \_\_\_\_\_  
(Name of enumerator)

Enumerator's code 

--	--	--

Date: \_\_\_\_\_

Checked by \_\_\_\_\_  
(Name of Inspecting Officer)

Date: \_\_\_\_\_

Observations of the Inspecting Officer:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**II. General Industrial Statistics**

- II-1. UN, UNIDO and National Data.
- II-2 National Data.
- II-3 Summary Statistics by Major Group for Census of Manufacturing Industries in Punjab, 1970-1975.
- II-4 Summary Statistics by Major Industry Group(Division) for Census of Manufacturing Industries in Sind, 1970-71 to 1972-73 and 1975-76.
- II-5 Shares of the Manufacturing Industries by Province, 1969-70 and 1975-76.
- II-6 Summary Statistics of Manufacturing Household/Establishments by Industry, 1976-77.

**II-1. Statistical Tables of UN, UNIDO and National Data**

- 1. Number of Establishments**
- 2. Employment(Average number of persons engaged)**
- 3. Gross Output**
- 4. Wages and Salaries**
- 5. Value Added**
- 6. Gross Fixed Capital Formation**
- 7. Index Number of Industrial Production(1975=100)**

## Explanatory Notes

### 1. Table note

COUNTRY: PAKISTAN

CODE	INDUSTRY	1970	
3	UN		----- a/ (1st row)
	UNIDO		----- b/ (2nd row)
	NA 01	3587	----- c/ (3rd row)

a/ UN, Yearbook of Industrial Statistics, vol I, General Industrial Statistics.

b/ UNIDO, General Industrial Data base.

c/ Federal Bureau of Statistics, Annual Census of Manufacturing Industries(CMI).

### 2. Data note

1. For NA 01 data, refer to notes on National Data (i.e. II-2)

COUNTRY: PAKISTAN

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	UN UNIDO NA 01	3587	---	---	---	---	---	3248	3373	3676	3715	3750	3815		
311/2	Food products	406	489	---	---	---	---	---	---	---	---	---	---		
		378	---	---	---	---	---	363	379	462	471	464	494		
313	Beverages	24	19	---	---	---	---	---	---	---	---	---	---		
		24	---	---	---	---	---	25	28	31	32	34	35		
314	Tobacco	30	39	---	---	---	---	---	---	---	---	---	---		
		30	---	---	---	---	---	17	20	18	18	18	20		
321	Textiles	732	719	---	---	---	---	---	---	---	---	---	---		
		721	---	---	---	---	---	850	902	924	902	948	914		
322	Wearing apparel	12	25	---	---	---	---	---	---	---	---	---	---		
		---	---	---	---	---	---	19	29	31	34	32	56		
323	Leather and products	71	64	---	---	---	---	---	---	---	---	---	---		
		71	---	---	---	---	---	59	59	64	57	60	61		
324	Footwear	34	30	---	---	---	---	---	---	---	---	---	---		
		69	---	---	---	---	---	17	17	11	18	20	19		
331	Wood products	12	23	---	---	---	---	---	---	---	---	---	---		
		12	---	---	---	---	---	22	21	19	22	14	22		

COUNTRY: PAKISTAN

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	43	38	---	---	---	---	---	---	---	---	---	---	---	---
		53	---	---	---	---	---	34	29	38	36	36	35	---	---
341	Paper and products	25	25	---	---	---	---	---	---	---	---	---	---	---	---
		25	---	---	---	---	---	28	32	26	26	31	38	---	---
342	Printing, publishing	189	184	---	---	---	---	---	---	---	---	---	---	---	---
		189	---	---	---	---	---	165	165	162	160	151	139	---	---
350	Drugs and medicines	97	105	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	93	84	90	89	97	103	---	---
351	Industrial chemicals	33	48	---	---	---	---	---	---	---	---	---	---	---	---
		295	---	---	---	---	---	60	67	70	70	80	80	---	---
352	Other chemical products	234	241	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	123	141	129	132	132	148	---	---
353	Petroleum refineries	61	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	3	3	3	---	---
354	Petroleum, coal products	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		6	---	---	---	---	---	4	7	9	7	8	12	---	---

COUNTRY: PAKISTAN

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
355	Rubber products	60	56	---	---	---	---	---	---	---	---	---	---	---	---
		48	---	---	---	---	---	54	58	59	64	57	52	---	---
356	Plastic products n.e.c.	13	30	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	20	33	35	35	35	31	---	---
361	Pottery, china etc.	9	12	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	11	12	10	15	18	17	---	---
362	Glass and products	20	24	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	19	24	23	27	24	28	---	---
369	Non-metal products n.e.c.	67	69	---	---	---	---	---	---	---	---	---	---	---	---
		96	---	---	---	---	---	66	70	69	74	67	69	---	---
371	Iron and steel	121	145	---	---	---	---	---	---	---	---	---	---	---	---
		128	---	---	---	---	---	153	164	171	176	189	197	---	---
372	Non-ferrous metals	7	8	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	10	10	13	18	16	14	---	---
381	Metal products	427	396	---	---	---	---	---	---	---	---	---	---	---	---
		417	---	---	---	---	---	326	316	322	311	291	272	---	---

COUNTRY: PAKISTAN

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
382	Machinery	323	296	---	---	---	---	---	---	---	---	---	---	---	---
		323	---	---	---	---	---	281	285	298	302	297	273	---	---
383	Electrical machinery	137	136	---	---	---	---	---	---	---	---	---	---	---	---
		137	---	---	---	---	---	134	136	157	163	174	185	---	---
384	Transport equipment	139	120	---	---	---	---	---	---	---	---	---	---	---	---
		139	---	---	---	---	---	125	128	134	127	117	122	---	---
385	Professional goods	60	62	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	47	45	42	44	43	45	---	---
390	Other industries	353	251	---	---	---	---	---	---	---	---	---	---	---	---
		426	---	---	---	---	---	69	64	65	74	67	63	---	---

COUNTRY: PAKISTAN

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	418	---	---	---	---	---	507	457	459	451	452	452		
311/2	Food products	35.15 38 34	42.1 42 ---	---	---	---	---	---	---	---	---	---	---		
				40	45	---	---	45	48	51	49	51	52		
313	Beverages	1.78 2 2	157 2 ---	---	---	---	---	---	---	---	---	---	---		
				2	3	---	---	3	3	3	3	4	4		
314	Tobacco	10.66 11 11	12.06 12 ---	---	---	---	---	---	---	---	---	---	---		
				9	10	---	---	8	8	9	9	10	13		
321	Textiles	198.63 210 198	204.87 218 ---	---	---	---	---	---	---	---	---	---	---		
				217	226	---	---	230	224	213	204	205	187		
322	Wearing apparel	0.73 1 ---	0.74 1 ---	---	---	---	---	---	---	---	---	---	---		
				1	2	---	---	1	2	3	3	3	4		
323	Leather and products	5.29 5 5	3.62 4 ---	---	---	---	---	---	---	---	---	---	---		
				3	3	---	---	13	4	4	4	3	5		
324	Footwear	1.09 1 7	2.8 3 ---	---	---	---	---	---	---	---	---	---	---		
				3	3	---	---	1	1	1	2	2	5		
325	Ginning, pressing and of fibers	---	---	---	---	---	---	---	---	---	---	---	---		
				---	---	---	---	4	4	9	10	12	13		



COUNTRY: PAKISTAN

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
331	Wood products	0.94	1.35	---	---	---	---	---	---	---	---	---	---	---	---
		1	1	3	1	---	---	1	2	---	---	---	---	---	---
		1	---	---	---	---	---	1	2	1	1	1	2	---	---
332	Furniture, fixtures	1.480	2.17	---	---	---	---	---	---	---	---	---	---	---	---
		1	2	2	1	---	---	1	1	---	---	---	---	---	---
		2	---	---	---	---	---	1	1	1	1	1	1	---	---
341	Paper and products	6.3	6.4	---	---	---	---	---	---	---	---	---	---	---	---
		6	6	7	7	---	---	1	8	---	---	---	---	---	---
		6	---	---	---	---	---	9	8	7	6	5	8	---	---
342	Printing, publishing	8.84	8.26	---	---	---	---	---	---	---	---	---	---	---	---
		9	8	7	6	---	---	6	9	---	---	---	---	---	---
		9	---	---	---	---	---	6	9	9	9	6	8	---	---
350	Drugs and medicines	7.87	9.3	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	18	7	10	10	11	11	---	---
351	Industrial chemicals	6.58	9.04	---	---	---	---	---	---	---	---	---	---	---	---
		7	9	8	9	---	---	11	13	---	---	---	---	---	---
		22	---	---	---	---	---	11	13	13	14	14	13	---	---
352	Other chemical products	14.7	16.56	---	---	---	---	---	---	---	---	---	---	---	---
		14	17	21	25	---	---	41	14	---	---	---	---	---	---
		---	---	---	---	---	---	22	7	7	7	7	9	---	---
353	Petroleum refineries	2.34	---	---	---	---	---	---	---	---	---	---	---	---	---
		2	2	2	2	---	---	2	2	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	3	3	3	---	---
354	Petroleum, coal products	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		2	---	---	---	---	---	2	2	2	---	---	1	---	---

COUNTRY: PAKISTAN

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
355	Rubber products	7.5	6.81	---	---	---	---	---	---	---	---	---	---	---	---
		7	7	6	7	---	---	10	10	---	---	---	---	---	---
		3	---	---	---	---	---	10	10	9	10	9	6	---	---
356	Plastic products n.e.c.	0.69	1.02	---	---	---	---	---	---	---	---	---	---	---	---
		1	1	1	1	---	---	1	1	---	---	---	---	---	---
		---	---	---	---	---	---	1	1	1	2	3	2	---	---
361	Pottery, china etc.	1.77	1.84	---	---	---	---	---	---	---	---	---	---	---	---
		2	2	2	2	---	---	1	2	---	---	---	---	---	---
		---	---	---	---	---	---	1	2	2	2	2	2	---	---
362	Glass and products	3.43	5.19	---	---	---	---	---	---	---	---	---	---	---	---
		3	5	4	4	---	---	2	3	---	---	---	---	---	---
		---	---	---	---	---	---	2	3	3	4	3	3	---	---
369	Non-metal products n.e.c.	11.68	10.10	---	---	---	---	---	---	---	---	---	---	---	---
		12	10	13	15	---	---	27	14	---	---	---	---	---	---
		17	---	---	---	---	---	27	14	13	12	12	12	---	---
371	Iron and steel	13.51	10.63	---	---	---	---	---	---	---	---	---	---	---	---
		14	11	9	13	---	---	19	17	---	---	---	---	---	---
		(13)	---	---	---	---	---	19	17	16	17	17	18	---	---
372	Non-ferrous metals	0.250	0.21	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	1	1	---	1	---	---
381	Metal products	18.09	14.79	---	---	---	---	---	---	---	---	---	---	---	---
		18	15	14	14	---	---	12	11	---	---	---	---	---	---
		18	---	---	---	---	---	12	11	12	10	12	10	---	---

COUNTRY: PAKISTAN

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
382	Machinery n.e.c.	12.79	10.46	---	---	---	---	---	---	---	---	---	---	---	---
		13	10	17	10	---	---	15	15	---	---	---	---	---	---
		13	---	---	---	---	---	15	15	14	17	12	14	---	---
383	Electrical machinery	16.2	13.62	---	---	---	---	---	---	---	---	---	---	---	---
		18	14	18	17	---	---	---	---	---	---	---	---	---	---
		17	---	---	---	---	---	---	---	---	---	---	---	---	---
384	Transport equipment	17.24	15.65	---	---	---	---	---	---	---	---	---	---	---	---
		17	16	22	17	---	---	22	20	---	---	---	---	---	---
		17	---	---	---	---	---	22	20	20	20	21	23	---	---
385	Professional goods	4.09	5.97	---	---	---	---	---	---	---	---	---	---	---	---
		4	6	8	6	---	---	4	3	---	---	---	---	---	---
		---	---	---	---	---	---	3	3	3	2	2	3	---	---
386	Photographic and optical goods	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
390	Other industries	16.60	19.58	---	---	---	---	---	---	---	---	---	---	---	---
		3	4	6	5	---	---	4	4	---	---	---	---	---	
		21	---	---	---	---	---	4	4	4	3	3	3	---	---

COUNTRY: PAKISTAN

Gross Output (in Producers' Values)

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	11801	---	---	---	---	---	30674	39074	48277	55135	70843	84288		
311/2	Food products	2510 2517 2420	2912 2912 ---	---	2781 3588 ---	---	---	---	---	6820 6820	---	9587 11321	11668 13644	17532	
313	Beverages	55 55 55	67 67 ---	---	88 123 ---	---	---	---	---	327 327	---	419 562	634 840	994	
314	Tobacco	652 652 652	934 934 ---	---	807 988 ---	---	---	---	---	1312 1312	---	2207 2893	2942 3817	4850	
321	Textiles	2982 4292 2964	3308 4778 ---	---	5261 7074 ---	---	---	---	---	8031 7541	---	9085 9532	11010 13230	14839	
322	Wearing apparel	5 5 ---	14 14 ---	---	34 72 ---	---	---	---	---	92 92	---	182 227	224 269	608	
323	Leather and products	300 300 300	210 210 ---	---	279 490 ---	---	---	---	---	538 538	---	805 854	1572 1380	1195	
324	Footwear	16 16 123	46 46 ---	---	73 103 ---	---	---	---	---	49 49	---	78 72	141 178	558	
325	Ginning, pressing and of fibers	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	490	797	3277	3498	4648	5678		

COUNTRY: PAKISTAN

Gross Output (in Producers' Values)

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
331	Wood products	26	17	---	---	---	---	---	---	---	---	---	---	---	---
		26	17	16	15	---	---	59	---	---	---	---	---	---	---
		26	---	---	---	---	---	59	61	42	77	120	200	---	---
332	Furniture, fixtures	16	21	---	---	---	---	---	---	---	---	---	---	---	---
		16	21	32	27	---	---	33	---	---	---	---	---	---	---
		18	---	---	---	---	---	33	23	32	35	64	85	---	---
341	Paper and products	172	225	---	---	---	---	---	---	---	---	---	---	---	---
		172	225	228	300	---	---	485	---	---	---	---	---	---	---
		172	---	---	---	---	---	485	461	501	518	605	1109	---	---
342	Printing, publishing	123	165	---	---	---	---	---	---	---	---	---	---	---	---
		123	165	166	124	---	---	269	---	---	---	---	---	---	---
		123	---	---	---	---	---	269	332	403	487	477	555	---	---
350	Drugs and medicines	300	406	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	842	1001	1470	1619	2199	2655	---	---
351	Industrial chemicals	283	446	---	---	---	---	---	---	---	---	---	---	---	---
		293	445	576	662	---	---	1287	---	---	---	---	---	---	---
		936	---	---	---	---	---	1287	1615	1749	2028	2877	3290	---	---
352	Other chemical products	564	717	---	---	---	---	---	---	---	---	---	---	---	---
		554	717	904	---	---	1587	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	744	904	970	115	1493	1995	---	---
353	Petroleum refineries	654	---	---	---	---	---	---	---	---	---	---	---	---	---
		644	450	405	397	---	---	487	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	5425	8875	12505	---	---

COUNTRY: PAKISTAN

## Gross Output (in Producers' Values)

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
354	Petroleum, coal products	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10	10	10	10	---	---	12	---	---	---	---	---	---	---
		854	---	---	---	---	---	498	862	1197	271	270	481	---	---
355	Rubber products	158	167	---	---	---	---	---	---	---	---	---	---	---	---
		158	167	195	213	---	---	493	---	---	---	---	---	---	---
		75	---	---	---	---	---	493	609	622	892	795	789	---	---
358	Plastic products n.e.c.	79	23	---	---	---	---	---	---	---	---	---	---	---	---
		87	23	62	60	---	---	48	---	---	---	---	---	---	---
		---	---	---	---	---	---	48	110	135	243	361	225	---	---
361	Pottery, china etc.	15	18	---	---	---	---	---	---	---	---	---	---	---	---
		15	18	16	19	---	---	28	---	---	---	---	---	---	---
		---	---	---	---	---	---	28	53	77	80	92	102	---	---
362	Glass and products	23	54	---	---	---	---	---	---	---	---	---	---	---	---
		23	54	33	40	---	---	59	---	---	---	---	---	---	---
		---	---	---	---	---	---	59	104	141	158	208	196	---	---
369	Non-metal products n.e.c.	363	366	---	---	---	---	---	---	---	---	---	---	---	---
		363	366	374	445	---	---	944	---	---	---	---	---	---	---
		401	---	---	---	---	---	944	1000	1586	1611	2657	2738	---	---
371	Iron and steel	381	419	---	---	---	---	---	---	---	---	---	---	---	---
		381	419	336	430	---	---	1402	---	---	---	---	---	---	---
		385	---	---	---	---	---	1402	1719	1648	2434	3038	3309	---	---
372	Non-ferrous metals	4	15	---	---	---	---	---	---	---	---	---	---	---	---
		4	15	9	11	---	---	21	---	---	---	---	---	---	---
		---	---	---	---	---	---	21	23	62	46	99	58	---	---
381	Metal products	254	254	---	---	---	---	---	---	---	---	---	---	---	---
		254	254	258	297	---	---	498	---	---	---	---	---	---	---
		252	---	---	---	---	---	498	637	609	880	1604	924	---	---

COUNTRY: PAKISTAN

## Gross Output (in Producers' Values)

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
382	Machinery	172	133	---	---	---	---	---	---	---	---	---	---	---	---
		172	133	211	218	---	---	873	---	---	---	---	---	---	---
		172	---	---	---	---	---	873	672	773	1014	1219	1424	---	---
383	Electrical machinery	339	364	---	---	---	---	---	---	---	---	---	---	---	---
		339	364	407	441	---	---	908	---	---	---	---	---	---	---
		339	---	---	---	---	---	908	1105	1546	1679	2012	2656	---	---
384	Transport equipment	247	362	---	---	---	---	---	---	---	---	---	---	---	---
		246	362	340	579	---	---	1631	---	---	---	---	---	---	---
		247	---	---	---	---	---	1631	1383	1659	2444	3196	2419	---	---
385	Professional goods	27	38	---	---	---	---	---	---	---	---	---	---	---	---
		27	38	105	101	---	---	106	---	---	---	---	---	---	---
		---	---	---	---	---	---	98	91	97	120	154	163	---	---
386	Photographic and optical goods	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	8	4	26	---	11	57	---	---
390	Other industries	1380	2043	---	---	---	---	---	---	---	---	---	---	---	---
		44	112	308	297	---	---	2266	---	---	---	---	---	---	---
		53	---	---	---	---	---	2267	3968	4193	224	315	301	---	---

COUNTRY: PAKISTAN

## Wages and Salaries

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	987	---	---	---	---	---	2860	3335	3855	4358	5020	5824		
311/2	Food products	94 98 91	111 110 ---	---	144 172 ---	---	---	---	---	---	---	---	---	---	---
313	Beverages	4 4 4	3 3 ---	---	5 9 ---	---	---	---	---	---	---	---	---	---	---
314	Tobacco	26 26 26	34 34 ---	---	31 49 ---	---	---	---	---	---	---	---	---	---	---
321	Textiles	398 428 396	429 456 ---	---	508 692 ---	---	---	---	---	---	---	---	---	---	---
322	Wearing apparel	1 1 ---	2 2 ---	---	6 9 ---	---	---	---	---	---	---	---	---	---	---
323	Leather and products	11 11 11	8 8 ---	---	9 11 ---	---	---	---	---	---	---	---	---	---	---
324	Footwear	2 2 20	7 7 ---	---	8 10 ---	---	---	---	---	---	---	---	---	---	---
325	Ginning, pressing and of fibers	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	12	17	48	53	17	105		



COUNTRY: PAKISTAN

## Wages and Salaries

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
331	Wood products	2	2	---	---	---	---	---	---	---	---	---	---	---	---
		2	2	2	2	---	---	7	92	---	---	---	---	---	---
		2	---	---	---	---	---	6	9	7	11	13	19	---	---
332	Furniture, fixtures	5	5	---	---	---	---	---	---	---	---	---	---	---	---
		5	5	7	6	---	---	6	4	---	---	---	---	---	---
		5	---	---	---	---	---	6	4	6	8	10	12	---	---
341	Paper and products	19	24	---	---	---	---	---	---	---	---	---	---	---	---
		19	24	25	30	---	---	59	71	---	---	---	---	---	---
		19	---	---	---	---	---	59	71	73	62	71	129	---	---
342	Printing, publishing	25	30	---	---	---	---	---	---	---	---	---	---	---	---
		25	30	31	25	---	---	42	64	---	---	---	---	---	---
		25	---	---	---	---	---	42	64	82	95	63	85	---	---
350	Drugs and medicines	35	50	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	98	104	151	181	213	229	---	---
351	Industrial chemicals	24	45	---	---	---	---	---	---	---	---	---	---	---	---
		25	45	51	61	---	---	120	161	---	---	---	---	---	---
		82	---	---	---	---	---	120	161	194	212	300	305	---	---
352	Other chemical products	55	74	---	---	---	---	---	---	---	---	---	---	---	---
		54	74	80	90	---	---	150	173	---	---	---	---	---	---
		---	---	---	---	---	---	53	69	69	100	105	142	---	---
353	Petroleum refineries	16	---	---	---	---	---	---	---	---	---	---	---	---	---
		15	19	20	21	---	---	22	21	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	58	60	64	---	---

COUNTRY: PAKISTAN

## Wages and Salaries

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
355	Rubber products	21	32	---	---	---	---	---	---	---	---	---	---	---	---
		21	32	18	21	---	---	63	69	---	---	---	---	---	---
		7	---	---	---	---	---	63	69	74	101	83	68	---	---
356	Plastic products n.e.c.	2	3	---	---	---	---	---	---	---	---	---	---	---	---
		2	3	9	11	---	---	7	11	---	---	---	---	---	---
		---	---	---	---	---	---	7	11	13	29	39	29	---	---
361	Pottery, china etc.	4	4	---	---	---	---	---	---	---	---	---	---	---	---
		4	4	4	5	---	---	8	11	---	---	---	---	---	---
		---	---	---	---	---	---	8	11	16	16	17	21	---	---
362	Glass and products	6	11	---	---	---	---	---	---	---	---	---	---	---	---
		6	11	9	10	---	---	13	18	---	---	---	---	---	---
		---	---	---	---	---	---	13	18	22	28	28	33	---	---
369	Non-metal products n.e.c.	30	35	---	---	---	---	---	---	---	---	---	---	---	---
		30	35	40	51	---	---	103	133	---	---	---	---	---	---
		---	---	---	---	---	---	103	133	162	192	215	205	---	---
371	Iron and steel	34	30	---	---	---	---	---	---	---	---	---	---	---	---
		34	31	27	46	---	---	132	159	---	---	---	---	---	---
		34	---	---	---	---	---	132	159	159	185	206	258	---	---
372	Non-ferrous metals	1	2	---	---	---	---	---	---	---	---	---	---	---	---
		1	2	2	2	---	---	3	2	---	---	---	---	---	---
		---	---	---	---	---	---	3	2	6	7	4	7	---	---
381	Metal products	38	39	---	---	---	---	---	---	---	---	---	---	---	---
		38	39	70	56	---	---	77	80	---	---	---	---	---	---
		38	---	---	---	---	---	77	80	110	102	137	128	---	---

COUNTRY: PAKISTAN

## Wages and Salaries

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
382	Machinery	24	20	---	---	---	---	---	---	---	---	---	---	---	---
		24	20	52	40	---	---	103	107	---	---	---	---	---	---
		24	---	---	---	---	---	103	108	101	164	134	201	---	---
383	Electrical machinery	48	57	---	---	---	---	---	---	---	---	---	---	---	---
		48	57	70	103	---	---	130	149	---	---	---	---	---	---
		48	---	---	---	---	---	130	149	187	203	211	255	---	---
384	Transport equipment	46	50	---	---	---	---	---	---	---	---	---	---	---	---
		46	50	64	99	---	---	186	225	---	---	---	---	---	---
		46	---	---	---	---	---	186	226	269	361	339	413	---	---
385	Professional goods	9	12	---	---	---	---	---	---	---	---	---	---	---	---
		9	12	25	28	---	---	19	17	---	---	---	---	---	---
		---	---	---	---	---	---	18	16	16	19	22	27	---	---
386	Photographic and optical goods	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	1	1	5	---	1	3	---	---
390	Other industries	43	69	---	---	---	---	---	---	---	---	---	---	---	---
		9	22	31	35	---	---	22	38	---	---	---	---	---	---
		53	---	---	---	---	---	18	29	41	14	19	22	---	---

COUNTRY: PAKISTAN

Value Added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	4811	---	---	---	---	---	10972	14002	17008	18614	24754	28692		
311/2	Food products	721	855	---	---	---	---	---	---	---	---	---	---		
		725	855	805	936	---	---	2430	3234	---	---	---	---		
		711	---	---	---	---	---	2430	3234	3479	3548	4265	5772		
313	Beverages	29	40	---	---	---	---	---	---	---	---	---	---		
		29	40	49	67	---	---	167	217	---	---	---	---		
		29	---	---	---	---	---	167	217	280	319	447	523		
314	Tobacco	383	572	---	---	---	---	---	---	---	---	---	---		
		383	572	587	781	---	---	909	1688	---	---	---	---		
		383	---	---	---	---	---	909	1688	2235	2241	2971	3805		
321	Textiles	1558	1595	---	---	---	---	---	---	---	---	---	---		
		1707	1770	2100	2835	---	---	2768	3208	---	---	---	---		
		1554	---	---	---	---	---	2670	3102	3374	3312	4337	4571		
322	Wearing apparel	2	7	---	---	---	---	---	---	---	---	---	---		
		2	7	14	27	---	---	32	53	---	---	---	---		
		---	---	---	---	---	---	32	53	75	66	71	255		
323	Leather and products	94	62	---	---	---	---	---	---	---	---	---	---		
		94	62	80	128	---	---	116	160	---	---	---	---		
		94	---	---	---	---	---	116	160	215	444	403	305		
324	Footwear	4	17	---	---	---	---	---	---	---	---	---	---		
		4	17	20	35	---	---	14	20	---	---	---	---		
		68	---	---	---	---	---	14	20	26	28	43	228		
325	Ginning, pressing and of fibers	---	---	---	---	---	---	---	---	---	---	---	---		
		---	---	---	---	---	---	---	---	---	---	---	---		
		---	---	---	---	---	---	98	106	262	513	448	764		

COUNTRY: PAKISTAN

Value Added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
331	Wood products	4	8	---	---	---	---	---	---	---	---	---	---	---	---
		4	8	7	5	---	---	18	24	---	---	---	---	---	---
		4	---	---	---	---	---	18	24	18	28	40	79	---	---
332	Furniture, fixtures	7	12	---	---	---	---	---	---	---	---	---	---	---	---
		7	11	18	12	---	---	14	10	---	---	---	---	---	---
		7	---	---	---	---	---	14	10	15	15	27	44	---	---
341	Paper and products	63	86	---	---	---	---	---	---	---	---	---	---	---	---
		63	86	119	177	---	---	180	197	---	---	---	---	---	---
		63	---	---	---	---	---	180	197	223	247	288	425	---	---
342	Printing, publishing	71	87	---	---	---	---	---	---	---	---	---	---	---	---
		71	87	100	83	---	---	124	149	---	---	---	---	---	---
		71	---	---	---	---	---	124	149	180	204	241	218	---	---
350	Drugs and medicines	147	228	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	339	426	670	722	1014	1236	---	---
351	Industrial chemicals	169	246	---	---	---	---	---	---	---	---	---	---	---	---
		174	248	380	435	---	---	538	793	---	---	---	---	---	---
		429	---	---	---	---	---	---	---	---	---	---	---	---	---
352	Other chemical products	250	330	---	---	---	---	---	---	---	---	---	---	---	---
		245	330	470	519	---	---	550	762	---	---	---	---	---	---
		---	---	---	---	---	---	211	336	371	422	527	707	---	---
353	Petroleum refineries	384	---	---	---	---	---	---	---	---	---	---	---	---	---
		382	210	242	242	---	---	402	669	---	---	---	---	---	---
		383	---	---	---	---	---	---	---	---	916	1566	1972	---	---

COUNTRY: PAKISTAN

Value Added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
354	Petroleum, coal products	---	2	2	---	---	---	---	---	---	---	---	---	---	---
		---	---	2	2	---	---	3	5	---	---	---	---	---	---
355	Rubber products	99	69	---	---	---	---	---	---	---	---	---	---	---	---
		99	69	80	69	---	---	137	250	---	---	---	---	---	---
		42	---	---	---	---	---	137	250	251	359	275	277	---	---
356	Plastic products n.e.c.	74	8	---	---	---	---	---	---	---	---	---	---	---	---
		4	8	18	16	---	---	22	43	---	---	---	---	---	---
		---	---	---	---	---	---	22	43	51	81	119	88	---	---
361	Pottery, china etc.	9	10	---	---	---	---	---	---	---	---	---	---	---	---
		9	10	11	13	---	---	18	33	---	---	---	---	---	---
362	Glass and products	7	27	---	---	---	---	---	---	---	---	---	---	---	---
		7	27	15	17	---	---	26	42	---	---	---	---	---	---
		---	---	---	---	---	---	26	42	79	74	107	98	---	---
369	Non-metal products n.e.c.	192	178	---	---	---	---	---	---	---	---	---	---	---	---
		192	178	189	223	---	---	393	313	---	---	---	---	---	---
		207	---	---	---	---	---	393	313	793	874	1691	1697	---	---
371	Iron and steel	115	124	---	---	---	---	---	---	---	---	---	---	---	---
		115	124	104	106	---	---	363	542	---	---	---	---	---	---
		116	---	---	---	---	---	363	542	487	895	981	1143	---	---
372	Non-ferrous metals	1	3	---	---	---	---	---	---	---	---	---	---	---	---
		1	3	3	3	---	---	7	7	---	---	---	---	---	---
		---	---	---	---	---	---	7	7	16	12	13	14	---	---

COUNTRY: PAKISTAN

Value Added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
381	Metal products	87	92	---	---	---	---	---	---	---	---	---	---	---	---
		87	92	95	115	---	---	175	282	---	---	---	---	---	---
		86	---	---	---	---	---	178	281	221	284	727	303	---	---
382	Machinery	58	51	---	---	---	---	---	---	---	---	---	---	---	---
		58	51	82	85	---	---	318	309	---	---	---	---	---	---
		58	---	---	---	---	---	318	309	315	398	430	491	---	---
383	Electrical machinery	180	190	---	---	---	---	---	---	---	---	---	---	---	---
		160	190	208	211	---	---	346	445	---	---	---	---	---	---
		160	---	---	---	---	---	346	445	611	635	770	395	---	---
384	Transport equipment	67	136	---	---	---	---	---	---	---	---	---	---	---	---
		67	136	187	216	---	---	704	331	---	---	---	---	---	---
		67	---	---	---	---	---	704	331	524	737	1289	708	---	---
385	Professional goods	16	22	---	---	---	---	---	---	---	---	---	---	---	---
		16	22	49	41	---	---	55	42	---	---	---	---	---	---
		---	---	---	---	---	---	50	41	41	52	62	69	---	---
386	Photographic and optical goods	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	5	1	8	---	2	16	---	---
390	Other industries	187	434	---	---	---	---	---	---	---	---	---	---	---	---
		21	47	115	90	---	---	144	168	---	---	---	---	---	---
		277	---	---	---	---	---	145	168	351	79	114	106	---	---

COUNTRY: PAKISTAN

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	4853	---	---	---	---	---	8871	9754	11383	14484	18139	22719		
311/2	Food products	703 703 681	854 854 ---	---	---	---	---	---	---	---	---	---	---	---	---
								1411	---	---	---	---	---	---	---
								1411	1663	1981	2298	3578	4267		
313	Beverages	31 31 31	24 24 ---	---	---	---	---	---	---	---	---	---	---	---	---
								58	---	---	---	---	---	---	---
								58	64	94	111	231	202		
314	Tobacco	67 67 67	78 78 ---	---	---	---	---	---	---	---	---	---	---	---	---
								68	---	---	---	---	---	---	---
								68	111	147	148	166	166		
321	Textiles	1676 1676 1671	1550 1550 ---	---	---	---	---	---	---	---	---	---	---	---	---
								3059	---	---	---	---	---	---	---
								3059	3272	3729	4309	5360	5787		
322	Wearing apparel	1 1 ---	8 8 ---	---	---	---	---	---	---	---	---	---	---	---	---
								9	---	---	---	---	---	---	---
								9	22	33	39	41	150		
323	Leather and products	32 32 32	20 20 ---	---	---	---	---	---	---	---	---	---	---	---	---
								87	---	---	---	---	---	---	---
								87	84	109	138	150	156		
324	Footwear	5 5 25	11 11 ---	---	---	---	---	---	---	---	---	---	---	---	---
								11	---	---	---	---	---	---	---
								11	16	12	44	24	57		
325	Ginning, pressing and of fibres	---	---	---	---	---	---	---	---	---	---	---	---	---	---
								49	32	129	181	198	313		



COUNTRY: PAKISTAN

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
331	Wood products	8	16	---	---	---	---	---	---	---	---	---	---	---	---
		8	16	---	---	---	---	36	---	---	---	---	---	---	---
		---	---	---	---	---	---	36	28	19	32	132	166	---	---
332	Furniture, fixtures	8	9	---	---	---	---	---	---	---	---	---	---	---	---
		8	9	---	---	---	---	15	---	---	---	---	---	---	---
		8	---	---	---	---	---	15	20	12	28	24	26	---	---
341	Paper and products	166	288	---	---	---	---	---	---	---	---	---	---	---	---
		166	288	---	---	---	---	405	---	---	---	---	---	---	---
		166	---	---	---	---	---	405	382	291	159	259	378	---	---
342	Printing, publishing	62	83	---	---	---	---	---	---	---	---	---	---	---	---
		62	83	---	---	---	---	72	---	---	---	---	---	---	---
		62	---	---	---	---	---	72	125	132	139	128	330	---	---
350	Drugs and medicines	80	98	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	197	146	211	264	303	362	---	---
351	Industrial chemicals	487	593	---	---	---	---	---	---	---	---	---	---	---	---
		487	593	---	---	---	---	961	---	---	---	---	---	---	---
		647	---	---	---	---	---	961	906	979	2779	2753	4130	---	---
352	Other chemical products	139	178	---	---	---	---	---	---	---	---	---	---	---	---
		139	178	---	---	---	---	110	---	---	---	---	---	---	---
		---	---	---	---	---	---	110	132	118	153	210	369	---	---
353	Petroleum refineries	157	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		157	---	---	---	---	---	12	16	16	712	744	746	---	---

COUNTRY: PAKISTAN

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
354	Petroleum, coal products	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	15	21	30		
355	Rubber products	39	38	---	---	---	---	---	---	---	---	---	---	---	---
		39	38	---	---	---	---	81	---	---	---	---	---	---	---
		25	---	---	---	---	---	81	72	89	98	90	107		
356	Plastic products n.e.c.	7	22	---	---	---	---	---	---	---	---	---	---	---	---
		7	22	---	---	---	---	49	---	---	---	---	---	---	---
		---	---	---	---	---	---	49	51	55	143	139	88		
361	Pottery, china etc.	12	17	---	---	---	---	---	---	---	---	---	---	---	---
		12	17	---	---	---	---	12	---	---	---	---	---	---	---
		---	---	---	---	---	---	12	137	77	85	77	85		
362	Glass and products	21	43	---	---	---	---	---	---	---	---	---	---	---	---
		21	43	---	---	---	---	102	---	---	---	---	---	---	---
		---	---	---	---	---	---	102	59	62	75	88	91		
369	Non-metal products n.e.c.	513	431	---	---	---	---	---	---	---	---	---	---	---	---
		513	432	---	---	---	---	525	---	---	---	---	---	---	---
		545	---	---	---	---	---	525	522	544	550	999	1522		
371	Iron and steel	125	110	---	---	---	---	---	---	---	---	---	---	---	---
		125	110	---	---	---	---	244	---	---	---	---	---	---	---
		126	---	---	---	---	---	244	216	593	335	825	892		
372	Non-ferrous metals	1	2	---	---	---	---	---	---	---	---	---	---	---	---
		1	2	---	---	---	---	5	---	---	---	---	---	---	---
		---	---	---	---	---	---	5	3	6	8	13	8		

COUNTRY: PAKISTAN

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
381	Metal products	95	108	---	---	---	---	---	---	---	---	---	---	---	---
		95	108	---	---	---	---	98	---	---	---	---	---	---	---
		94	---	---	---	---	---	99	109	209	174	239	235	---	---
382	Machinery	72	58	---	---	---	---	---	---	---	---	---	---	---	---
		72	58	---	---	---	---	511	---	---	---	---	---	---	---
		72	---	---	---	---	---	511	426	382	722	371	689	---	---
383	Electrical machinery	141	150	---	---	---	---	---	---	---	---	---	---	---	---
		141	150	---	---	---	---	201	---	---	---	---	---	---	---
		141	---	---	---	---	---	201	237	270	319	398	528	---	---
384	Transport equipment	129	176	---	---	---	---	---	---	---	---	---	---	---	---
		129	176	---	---	---	---	320	---	---	---	---	---	---	---
		129	---	---	---	---	---	320	284	314	382	506	753	---	---
385	Professional goods	10	16	---	---	---	---	---	---	---	---	---	---	---	---
		10	16	---	---	---	---	22	---	---	---	---	---	---	---
		---	---	---	---	---	---	22	17	19	19	27	34	---	---
388	Photographic and optical goods	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	1	1	3	3	2	8	---	---
390	Other industries	146	291	---	---	---	---	---	---	---	---	---	---	---	---
		146	291	---	---	---	---	---	---	---	---	---	---	---	---
		163	---	---	---	---	---	131	602	767	32	39	41	---	---

COUNTRY: PAKISTAN

Index Number of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01	120	126	99	82	111		120	125	138	140	140	174		
313	Beverages	85	119	86	76	96		105	111	123	155	---	---		
314	Tobacco	83	90	81	103	103		102	106	117	121	129	134		
321	Textiles	123	122	107	110	105		86	62	60	61	66	69		
322	Wearing apparel	15	38	64	78	81		98	---	---	---	---	---		
323	Leather and products	92	172	203	172	119		70	---	---	---	---	---		
324	Footwear	104	270	282	210	127		60	---	---	---	---	---		
331	Wood products	94	93	114	145	138		102	43	74	87	87	87		

COUNTRY: PAKISTAN

Index Number of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	55	69	102	106	96		86	---	---	---	---	---		
341	Paper and products	54	68	100	121	111		100	100	105	137	126	---		
342	Printing, publishing	110	110	95	100	100		100	100	100	---	---	---		
351	Industrial chemicals	68	61	89	96	85		104	108	116	121	127	135		
352	Other chemical products	93	101	95	97	91		102	107	131	130	139	202		
353	Petroleum refineries	113	97	91	105	100		101	115	135	121	138	135		
354	Petroleum, coal products	71	50	81	93	88		94	---	---	---	---	---		
355	Rubber products	72	79	54	79	94		89	90	103	104	115	116		

COUNTRY: PAKISTAN

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	60	---	---	---	---		---	---	---	---	---	---		
361	Pottery, china etc.	119	93	129	132	106		88	---	---	---	---	---		
362	Glass and products	29	77	111	116	96		85	---	---	---	---	---		
369	Non-metal products n.e.c.	83	82	85	93	112		101	102	100	94	104	110		
371	Iron and steel	58	67	100	107	94		87	---	---	---	---	---		
372	Non-ferrous metals	20	42	80	85	83		93	---	---	---	---	---		
381	Metal products	66	69	102	109	95		87	---	---	---	---	---		
382	Machinery n.e.c.	32	31	56	72	77		107	97	104	104	113	109		

COUNTRY: PAKISTAN

Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	62	70	49	70	80		90	71	89	79	62	68		
384	Transport equipment	77	96	59	101	85		115	112	120	152	157	184		
385	Professional goods	50	46	75	89	85		94	---	---	---	---	---		
390	Other industries	71	50	81	93	88		94	---	---	---	---	---		

II-2. Statistical Tables of National Data

1. Number of Establishments
2. Employment (Average number of persons engaged)
3. Gross Output
4. Wages and Salaries
5. Value Added
6. Quantum Index Number of Manufacturing (1969-70=100)
7. Quantum Index Number of Manufacturing (1975-76=100)

Data Source:

Federal Bureau of Statistics  
-Annual Census of Manufacturing Industries (CMI)  
1969-70, 1975-76, 1977-78, 1978-79, 1979-80,  
1980-81.



COUNTRY: PAKISTAN (National Data)

Number of Establishments

Unit: No.

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
3	All industries	3,587					
311/312	Food industries (except beverage)	378					
313	Beverage industries	24					
314	Tobacco manufactures	30					
320/321	Manufacture of textiles	a/ 721					
322	Manufacture of wearing apparel (except footwear)	71					
323	Manufacture of leather and leather products (except footwear)						
324	Manufacture of footwear	b/ 69					
325	Ginning, pressing and baling of fibres						
331	Manufacture of wood, cork products (except furniture)	12					
332	Furniture and fixtures (except primarily metal)	53					
341	Paper and paper products	25					
342	Printing, and publishing and allied industries	169					
350	Manufacture of drugs and pharmaceutical products						
351	Manufacture of industrial chemicals	c/ 205					
352	Manufacture of other chemical products						
353	Petroleum refining						
354	Manufacture of misc. products of petroleum and coal	d/ 6					
355	Manufacture of rubber products	48					
356	Manufacture of plastic products						
361	Manufacture of pottery, china and earthenware						
362	Glass and glass products						

COUNTRY: PAKISTAN (National Data)

## Number of Establishments

Unit: No.

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
369	Manufacture of other non-metallic mineral products	g/ 96					
371	Iron and steelBasic industries	128					
372	Non-ferrous metal basic industries						
380/381	Manufacture of fabricated metal products (except machinery and equipment)	f/ 417					
382	Machinery except electrical	g/ 323					
383	Electrical machinery, apparatus, appliances and supplies	137					
384	Manufacture of transport equipment	139					
385	Scientific precision and measuring instruments						
386	Photographic and optical goods						
390	Miscellaneous manufacturing industries	h/ 426					
391	Handcrafts						
392	Sports and athletic goods						
393	Other manufacturing industries						
394	All other industries						

COUNTRY: PAKISTAN (National Data)

## Number of Reporting Establishment

Unit: No.

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
3	All industries	3,248	3,373	3,876	3,715	3,750	3,815
311/312	Food manufacturing	363	374	462	471	464	494
313	Beverage industries	25	28	31	32	34	35
314	Tobacco manufactures	17	20	16	18	18	20
320/321	Manufacture of textiles	850	902	924	902	948	914
322	Manufacture of wearing apparel (except footwear)	19	29	31	34	32	56
323	Manufacture of leather and leather products (except footwear)	59	59	64	57	60	61
324	Manufacture of leather footwear	17	17	11	18	20	19
325	Ginning, pressing and baling of fibres	43	48	187	208	223	261
331	Manufacture of wood, cork products (except furniture)	22	21	19	22	14	22
332	Furniture and fixtures (except primarily metal)	34	29	36	36	36	35
341	Paper and paper products	28	32	26	26	31	38
342	Printing, publishing and allied industries	165	165	162	160	151	139
350	Manufacture of drugs and pharmaceutical products	93	84	90	89	97	103
351	Manufacture of industrial chemicals	60	67	70	70	80	80
352	Manufacture of other chemical products	123	141	129	132	132	148
353	Petroleum refining	---	---	---	3	3	3
354	Manufacture of misc. products of petroleum and coal	4	7	9	7	8	12
355	Manufacture of rubber products	54	58	59	64	57	52
358	Manufacture of plastic products n.e.c.	26	33	35	35	35	31
361	Manufacture of pottery, china and earthenware	11	12	16	15	18	17
362	Glass and glass products	19	24	23	27	24	28

COUNTRY: PAKISTAN (National Data)

Number of Reporting Establishments

Unit: No.

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
369	Manufacture of other non-metallic mineral products	68	70	69	74	67	69
371	Iron and steel basic industries	153	164	171	176	189	197
372	Non-ferrous metal basic industries	10	10	13	18	16	14
380/381	Manufacture of fabricated metal products (except machinery and equipment)	326	316	322	311	291	272
382	Machinery except electrical	281	285	298	302	297	273
383	Electrical machinery, apparatus, appliances and supplies	134	136	157	163	174	185
384	Manufacture of transport equipment	125	128	134	127	117	122
385	Scientific precision and measuring instruments	47	45	42	44	43	45
386	Photographic and optical goods	7	5	5	---	4	7
391	Handicrafts					3	
392	Sports and athletic goods	17	16	16	18	20	22
393	Other manufacturing industries	46	44	45	51	44	41
394	All other industries	6	4	4	5	---	---

## Note:

- a/ Including major group 320.  
 b/ DU 322 and 325.  
 c/ DU 350, 352 and 356.  
 d/ BU 353 and 356.  
 e/ DU 361 and 362.  
 f/ DU 372 and 380.  
 g/ DU 385 and 386.  
 h/ DU 392, 393 and 394.

Major Groups and Industries		1960-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
3	All industries	418,360					
311/312	Food industries (except beverage)	34,103					
313	Beverage industries	1,784					
314	Tobacco manufactures	10,655					
320/321	Manufacture of textiles	<u>a/</u> 197,902					
322	Manufacture of wearing apparel (except footwear)						
323	Manufacture of leather and leather products (except footwear)	5,291					
324	Manufacture of footwear	<u>b/</u> 7,434					
325	Ginning, pressing and baling of fibres						
331	Manufacture of wood cork and allied products (except furniture)	943					
332	Furniture and fixtures (except primarily metal)	1,088					
341	Paper and paper products	6,298					
342	Printing and publishing and allied industries	8,844					
350	Manufacture of drugs and pharmaceutical products						
351	Manufacture of industrial chemicals	<u>c/</u> 22,340					
352	Manufacture of other chemical products						
353	Petroleum refining						
354	Manufacture of misc. products petroleum and coal	<u>d/</u> 2,340					
355	Rubber products except footwear	2,611					
356	Manufacture of plastic products n.e.c.						
361	Manufacture of pottery, china and earthenware						
362	Glass and glass products						

COUNTRY: PAKISTAN (National Data)

Employment (Average Number of Persons Engaged)

Unit: No.

Major Groups and Industries		1960-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
360	Non-metallic mineral products	e/ 10,876					
371	Basic metal industries	13,765					
372	Non-ferrous metal basic industries						
380/381	Metal products (except machinery and equipment)	f/ 17,879					
382	Machinery except electrical	g/ 12,786					
383	Electrical machinery, apparatus, appliances and supplies	16,197					
384	Manufacture of transport equipment	17,238					
385	Scientific precision and measuring instruments						
386	Photographic and optical goods						
390	Miscellaneous manufacturing industries	h/ 21,386					
391	Handicrafts						
392	Sports and athletic goods						
393	Other manufacturing industries						
394	All other industries						

COUNTRY: PAKISTAN (National Data)

Employment (Average Number of Persons Engaged)

Unit: No.

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
3	All industries	506,601	458,761	459,451	451,334	451,935	451,710
311/312	Food manufacturing	45,230	48,182	50,990	49,235	51,266	52,408
313	Beverage industries	3,021	3,243	3,398	3,489	4,000	3,844
314	Tobacco manufactures	7,573	8,420	8,978	9,265	9,644	13,093
320/321	Manufacture of textiles	226,490	219,819	212,736	204,306	205,254	187,208
322	Manufacture of wearing apparel (except footwear)	965	1,678	2,559	2,784	2,742	4,228
323	Manufacture of leather and leather products (except footwear)	13,131	3,602	3,785	3,630	3,401	4,583
324	Manufacture of leather footwear	1,352	1,431	1,155	1,569	1,566	5,072
325	Ginning, pressing and baling of fibres	3,878	3,786	9,121	9,987	12,114	12,907
331	Manufacture of wood, cork products (except furniture)	1,323	1,542	1,063	1,333	1,290	1,743
332	Furniture and fixtures (except primarily metal)	1,009	590	880	993	929	920
341	Paper and paper products	8,464	7,936	7,001	5,788	5,262	8,283
342	Printing, publishing and allied industries	6,300	8,672	8,888	9,094	6,058	8,416
350	Manufacture of drugs and pharmaceutical products	18,148	6,988	9,965	10,386	10,702	11,228
351	Manufacture of industrial chemicals	11,400	12,600	12,578	13,708	14,221	12,748
352	Manufacture of other chemical products	22,448	7,292	6,922	7,198	6,933	9,078
353	Petroleum refining	---	---	---	2,984	2,967	2,820
354	Manufacture of misc. products of petroleum and coal	1,871	2,022	2,360	305	336	802
355	Manufacture of rubber products	9,899	9,686	9,122	9,533	9,017	5,646
356	Manufacture of plastic products n.e.c.	1,146	1,423	1,380	2,310	2,811	1,963
361	Manufacture of pottery, china and earthenware	1,383	1,866	2,246	1,991	1,912	1,958
362	Glass and glass products	2,460	3,452	3,478	3,625	3,184	3,177

COUNTRY: PAKISTAN (National Data)

Employment (Average Number of Persons Engaged)

Unit: No.

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
369	Manufacture of other non-metallic mineral products	27,119	14,240	12,952	12,041	12,450	11,781
371	Iron and steel basic industries	18,852	16,894	15,827	17,083	17,262	18,180
372	Non-ferrous metal basic industries	480	326	823	814	469	527
380/381	Manufacture of fabricated metal products (except machinery and equipment)	12,120	11,485	12,216	10,279	11,796	10,222
382	Machinery except electrical	15,196	15,030	14,163	16,566	12,132	13,716
383	Electrical machinery, apparatus, appliances and supplies	16,009	16,954	17,902	15,783	15,811	16,721
384	Manufacture of transport equipment	21,539	20,400	20,486	20,136	20,861	22,735
385	Scientific precision and measuring instruments	3,461	2,724	2,628	2,385	2,392	2,543
386	Photographic and optical goods	235	133	302	---	133	247
391	Handicrafts	---	---	---	---	1,756	---
392	Sports and athletic goods	1,303	1,754	1,042	1,158	14	1,119
393	Other manufacturing industries	2,081	1,752	1,625	1,432	1,250	1,794
394	All other industries	715	770	882	146	---	---

Note:

- a/ Including major group 320.  
 b/ DU 322 and 325.  
 c/ DU 350, 352 and 356.  
 d/ DU 353 and 356.  
 e/ DU 361 and 362.  
 f/ DU 372 and 380.  
 g/ DU 385 and 386.  
 h/ DU 392, 393 and 394.



COUNTRY: PAKISTAN (National Data)

Gross Output

Unit: Thousands Rupees

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
3	All industries	11,800,523					
311-312	Food industries (except beverage)	2,420,454					
313	Beverage industries	55,302					
314	Tobacco manufactures	652,002					
320/321	Manufacture of textiles	a/ 2,963,747					
322	Manufacture of wearing apparel (except footwear)						
323	Manufacture of leather and leather products (except footwear)	209,655					
324	Manufacture of leather footwear	b/ 123,185					
325	Ginning, pressing and baling of fibres						
331	Manufacture of wood, cork and products (except furniture)	25,053					
332	Furniture and fixtures (except primarily metal)	18,123					
341	Paper and paper products	171,700					
342	Printing and publishing allied industries	122,692					
350	Manufacture of drugs and pharmaceutical products	c/ 930,422					
351	Manufacture of industrial chemicals						
352	Manufacture of other chemical products						
353	Petroleum refining						
354	Manufacture of misc. products of petroleum and coal	d/ 654,323					
355	Manufacture of rubber products	75,450					
356	Manufacture of plastic products n.e.c.						
361	Manufacture of pottery, china and earthenware						
362	Glass and glass products						

COUNTRY: PAKISTAN (National Data)

## Gross Output

Unit: Thousands Rupees

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
369	Manufacture of other non-metallic mineral products	g/ 400,706					
371	Iron and steel basic industries	384,858					
372	Non-ferrous metal basic industries						
380/381	Manufacture of fabricated metal products (except machinery and equipment)	f/ 251,514					
382	Machinery except electrical	g/ 172,431					
383	Electrical machinery, apparatus, appliances and supplies	339,440					
384	Manufacture of transport equipment	246,965					
385	Scientific precision and measuring instruments						
386	Photographic and optical goods						
390	Miscellaneous manufacturing industries	h/ 1,485,574					
391	Handicrafts						
392	Sports and athletic goods						
393	Other manufacturing industries						
394	All other industries						

COUNTRY: PAKISTAN (National Data)

## Gross Output

Unit: Thousands Rupees

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
3	All industries	30,674,155	39,074,153	48,276,655	55,135,004	70,842,831	84,288,327
311/312	Food manufacturing	6,828,837	9,587,182	11,321,479	11,667,934	13,643,605	17,532,236
313	Beverage industries	326,937	419,301	561,555	634,468	840,449	993,556
314	Tobacco manufactures	1,311,902	2,207,114	2,893,274	2,941,704	3,816,960	4,850,125
320/321	Manufacture of textiles	7,541,250	9,064,556	9,532,300	11,019,788	13,229,574	14,639,184
322	Manufacture of wearing apparel (except footwear)	91,605	182,303	226,899	223,903	289,320	607,956
323	Manufacture of leather and leather products (except footwear)	538,095	805,036	853,819	1,572,340	1,360,140	1,194,659
324	Manufacture of leather footwear	48,519	78,290	72,025	141,373	178,486	558,076
325	Ginning, pressing and baling of fibres	490,409	797,024	3,277,001	3,497,996	4,645,847	5,678,248
331	Manufacture of wood, cork products (except furniture)	59,257	60,545	41,885	76,945	120,202	199,722
332	Furniture and fixtures (except primarily metal)	32,532	22,781	32,292	35,194	63,915	85,479
341	Paper and paper products	484,505	460,850	500,922	518,181	604,718	1,109,142
342	Printing, publishing and allied industries	268,794	332,440	402,623	487,022	477,269	554,964
350	Manufacture of drugs and pharmaceutical products	842,052	1,000,530	1,470,438	1,619,461	2,198,803	2,654,641
351	Manufacture of industrial chemicals	1,287,239	1,614,583	1,748,670	2,028,088	2,877,260	3,290,117
352	Manufacture of other chemical products	744,489	904,115	969,962	1,149,853	1,492,745	1,995,207
353	Petroleum refining	---	---	---	5,425,255	8,874,504	12,505,062
354	Manufacture of misc. products of petroleum and coal	497,855	861,598	1,196,533	271,219	769,924	480,637
355	Manufacture of rubber products	493,113	608,886	621,854	892,189	794,561	788,607
356	Manufacture of plastic products n.e.c.	47,864	109,606	135,292	242,976	360,862	225,139
361	Manufacture of pottery, china and earthenware	28,373	53,057	76,535	79,786	91,873	101,921
362	Glass and glass products	59,446	104,173	141,323	158,005	207,910	196,348

COUNTRY: PAKISTAN (National Data)

Gross Output

Unit: Thousands Rupees

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
369	Manufacture of other non-metallic mineral products	944,046	999,568	1,586,278	1,611,390	2,656,785	2,737,787
371	Iron and steel basic industries	1,402,354	1,718,783	1,649,243	2,433,504	3,037,584	3,309,058
372	Non-ferrous metal basic industries	20,684	22,864	62,478	45,574	98,753	55,503
380/381	Manufacture of fabricated metal products (except machinery and equipment)	498,458	636,887	608,573	879,641	1,604,348	923,661
382	Machinery except electrical	873,059	671,645	773,091	1,014,199	1,219,346	1,424,318
383	Electrical machinery, apparatus, appliances and supplies	908,329	1,105,036	1,545,564	1,679,212	2,012,252	2,655,640
384	Manufacture of transport equipment	1,631,023	1,382,919	1,658,956	2,443,717	3,185,903	2,419,219
385	Scientific precision and measuring instruments	97,680	90,688	96,795	120,019	154,247	163,626
386	Photographic and optical goods	8,153	3,678	25,904	---	11,449	57,071
391	Handicrafts	---	---	---	---	331	---
392	Sports and athletic goods	38,368	39,842	49,688	65,217	87,690	89,311
393	Other manufacturing industries	109,161	85,064	123,846	152,552	226,961	212,109
394	All other industries	2,119,717	3,843,212	4,019,558	6,299	---	---

Note:

- a/ Including major group 320.  
b/ DU 322 and 325.  
c/ DU 350, 352 and 356.  
d/ DU 353 and 356.  
e/ DU 361 and 362.  
f/ DU 372 and 380.  
g/ DU 385 and 386.  
h/ DU 392, 393 and 394.

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
3	All industries	987,020					
311/312	Food industries (except beverage)	91,438					
313	Beverage industries	4,020					
314	Tobacco manufactures	26,339					
320/321	Manufacture of textiles	a/ 305,721					
322	Manufacture of wearing apparel (except footwear)						
323	Manufacture of leather and leather products (except footwear)	10,777					
324	Manufacture of leather footwear	b/ 20,002					
325	Ginning, pressing and baling of fibres						
331	Manufacture of wood, cork and products (except furniture)	1,704					
332	Furniture and fixtures (except primarily metal)	5,049					
341	Paper and paper products	18,851					
342	Printing and publishing and allied industries	24,799					
350	Manufacture of drugs and pharmaceutical products						
351	Manufacture of industrial chemicals	c/ 82,403					
352	Manufacture of other chemical products						
353	Petroleum refining						
354	Manufacture of misc. products of petroleum and coal	d/ 16,181					
355	Manufacture of rubber products	6,555					
356	Manufacture of plastic products n.e.c.						
361	Manufacture of pottery, china and earthenware						
362	Glass and glass products						

COUNTRY: PAKISTAN (National Data)

## Wages and Salaries

Unit: Thousands Rupees

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
369	Manufacture of other non-ferrous mineral products	<u>e/</u> 39,714					
371	Iron and steel basic industries	34,130					
372	Non-ferrous metal basic industries						
380/381	Manufacture of fabricated metal products (except machinery and equipment)	<u>f/</u> 37,602					
382	Machinery except electrical	<u>g/</u> 24,182					
383	Electrical machinery, apparatus, appliances and supplies	48,311					
384	Manufacture of transport equipment	45,794					
385	Scientific precision and measuring instrument						
386	Photographic and optical goods						
390	Miscellaneous manufacturing industries	<u>h/</u> 53,358					
	Handicrafts						
	Sports and athlete goods						
	Other manufacturing industries						
394	All other industries						

COUNTRY: PAKISTAN (National Data)

Wages and Salaries

Unit: No.

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
3	All industries	2,855,720	3,334,917	3,855,008	4,358,913	5,019,796	5,623,813
311/312	Food manufacturing	317,600	421,838	518,986	536,356	649,928	725,494
313	Beverage industries	18,330	25,221	35,671	40,276	52,990	55,354
314	Tobacco manufactures	56,070	81,353	87,059	100,119	114,928	136,316
320/321	Manufacture of textiles	1,148,020	1,219,389	1,314,236	1,398,742	1,726,132	1,753,545
322	Manufacture of wearing apparel (except footwear)	9,185	160,661	18,505	26,820	34,886	60,263
323	Manufacture of leather and leather products (except footwear)	16,612	21,064	27,441	29,641	35,157	40,976
324	Manufacture of leather footwear	7,868	10,055	9,407	13,494	17,113	66,470
325	Ginning, pressing and baling of fibres	12,201	17,109	47,846	53,729	86,687	105,127
331	Manufacture of wood, cork products (except furniture)	6,587	9,211	7,026	10,522	13,220	18,607
332	Furniture and fixtures (except primarily metal)	6,191	3,925	6,451	7,582	9,580	12,421
341	Paper and paper products	58,681	70,969	73,741	62,195	71,338	128,972
342	Printing, publishing and allied industries	42,074	63,898	81,785	94,870	63,477	85,288
350	Manufacture of drugs and pharmaceutical products	97,668	104,120	151,081	180,739	212,710	228,891
351	Manufacture of industrial chemicals	120,368	160,637	194,403	211,614	300,261	305,422
352	Manufacture of other chemical products	52,558	68,873	68,360	100,420	105,228	141,668
353	Petroleum refining	---	---	---	58,111	60,346	64,185
354	Manufacture of misc. products of petroleum and coal	23,410	22,158	27,252	5,307	8,185	12,613
355	Manufacture of rubber products	63,482	69,422	74,145	101,000	83,077	67,984
356	Manufacture of plastic products n.e.c.	6,787	10,897	12,911	28,773	39,213	29,084
361	Manufacture of pottery, china and earthenware	7,986	11,298	15,907	16,016	17,219	21,271
362	Glass and glass products	12,646	18,319	21,980	27,046	27,543	33,478

COUNTRY: PAKISTAN (National Data)

## Wages and Salaries

Unit: No.

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
369	Manufacture of other non-metallic mineral products	103,110	133,088	161,833	192,394	214,952	205,464
371	Iron and steel basic industries	132,257	159,017	158,916	184,715	206,121	257,614
372	Non-ferrous metal basic industries	3,382	2,023	6,444	6,979	4,492	6,910
380/381	Manufacture of fabricated metal products (except machinery and equipment)	76,784	79,848	109,683	102,423	136,951	128,121
382	Machinery except electrical	103,303	107,471	100,791	163,934	133,988	201,395
383	Electrical machinery, apparatus, appliances and supplies	129,530	148,397	187,096	202,722	210,687	254,879
384	Manufacture of transport equipment	186,237	225,296	268,576	360,676	339,022	412,778
385	Scientific precision and measuring instruments	17,515	16,454	16,124	19,151	22,023	26,934
386	Photographic and optical goods	1,382	773	4,747	---	1,053	3,379
391	Handicrafts	---	---	---	---	90	---
392	Sports and athletic goods	5,305	6,511	5,986	7,454	9,034	10,445
393	Other manufacturing industries	12,147	12,268	13,079	12,787	18,165	22,465
394	All other industries	4,450	16,849	27,630	1,706	---	---

## Note:

- a/ Including major group 320.  
 b/ DU 322 and 325.  
 c/ DU 350, 352 and 356.  
 d/ DU 353 and 356.  
 e/ DU 361 and 362.  
 f/ DU 372 and 380.  
 g/ DU 385 and 386.  
 h/ DU 392, 393 and 394.



COUNTRY: PAKISTAN (National Data)

Value Added

Unit: Thousands Rupees

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
3	All industries	4,811,309					
311/312	Food industries (except beverage)	710,755					
313	Beverage industries	28,833					
314	Tobacco manufactures	383,314					
320/321	Manufacture of textiles	a/ 1,554,115					
322	Manufacture of wearing apparel (except footwear)						
323	Manufacture of leather and leather products (except footwear)	94,416					
324	Manufacture of leather footwear	b/ 67,549					
325	Ginning, perssing and lbalng of fibres						
331	Manufacture of wood, cork and products (except furniture)	3,981					
332	Furniture and fixtures (except (primarily metal)	7,443					
341	Paper and paper products	62,558					
342	Printing, publishing and allied industries	71,180					
350	Manufacture of drugs and pharnaceutical products						
351	Manufacture of industries chemicals	c/ 428,723					
352	Manufacture of other chemical products						
353	Petroleum refining						
354	Manufacture of misc. products of petroleum and coal	d/ 383,836					
355	Rubber products except footwear	41,844					
356	Manufacture of plastic products n.e.c.						
361	Manufacture of pottery, china and earthenware						
362	Glass and glass products						

COUNTRY: PAKISTAN (National Data)

Value Added

Unit: Thousands Rupees

Major Groups and Industries		1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
369	Manufacture of other non-metallic mineral products	e/ 207,764					
371	Iron and steel basic metal industries	116,131					
372	Non-ferrous metal basic industries						
380/381	Manufacture of fabricated metal products (except machinery and equipment)	f/ 86,131					
382	Machinery except electrical	g/ 57,645					
383	Electrical machinery, apparatus, appliances and supplies	160,401					
384	Manufacture of transport equipment	67,353					
385	Scientific precision and measuring instruments						
386	Photographic and optical goods						
390	Miscellaneous manufacturing industries	h/ 277,337					
391	Handicrafts						
392	Sport and athletic goods						
393	Other manufacturing industries						
394	All other industries						

COUNTRY: PAKISTAN (National Data)

Value Added

Unit: Thousands Rupees

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
3	All industries	10,972,923	14,001,603	17,007,922	18,614,002	24,754,071	28,692,120
311/312	Food manufacturing	2,429,715	3,234,399	3,478,867	3,548,148	4,264,959	5,771,927
313	Beverage industries	166,757	216,988	280,124	318,783	446,619	523,203
314	Tobacco manufactures	908,596	1,688,436	2,235,504	2,241,336	2,970,644	3,804,984
320/321	Manufacture of textiles	2,670,186	3,101,693	3,374,042	3,312,111	4,335,950	4,571,335
322	Manufacture of wearing apparel (except footwear)	31,990	52,983	74,505	65,909	70,820	254,530
323	Manufacture of leather and leather products (except footwear)	115,623	159,946	214,855	444,236	403,063	305,080
324	Manufacture of leather footwear	14,123	20,306	26,011	28,308	43,309	227,702
325	Ginning, pressing and baling of fibres	97,813	105,923	261,699	512,646	448,316	763,987
331	Manufacture of wood, cork products (except furniture)	18,137	23,860	17,789	28,440	39,643	78,662
332	Furniture and fixtures (except primarily metal)	13,788	9,577	14,868	15,385	26,972	44,432
341	Paper and paper products	180,371	197,013	222,711	246,590	288,278	424,925
342	Printing, publishing and allied industries	124,477	148,747	179,553	203,509	240,759	215,739
350	Manufacture of drugs and pharmaceutical products	339,021	425,568	669,607	721,696	1,013,762	1,235,720
351	Manufacture of industrial chemicals	537,501	798,398	860,305	981,328	1,256,637	1,589,437
352	Manufacture of other chemical products	211,434	336,156	371,392	422,063	527,120	706,861
353	Petroleum refining	---	---	---	916,479	1,566,494	1,972,112
354	Manufacture of misc. products of petroleum and coal	404,886	673,521	933,997	84,837	88,252	146,142
355	Manufacture of rubber products	137,173	250,469	250,918	358,617	274,830	277,317
356	Manufacture of plastic products n.e.c.	21,508	43,498	51,399	80,576	118,755	85,790
361	Manufacture of pottery, china and earthenware	17,540	33,310	42,973	43,837	49,192	55,285
362	Glass and glass products	25,795	41,856	78,550	73,546	107,381	95,707

COUNTRY: PAKISTAN (National Data)

Value Added

Unit: Thousands Rupees

Major Groups and Industries		1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981
369	Manufacture of other non-metallic mineral products	392,585	312,664	793,078	873,672	1,691,368	1,696,963
371	Iron and steel basic industries	363,251	542,461	487,402	894,753	980,849	1,143,101
372	Non-ferrous metal basic industries	7,164	6,521	15,823	11,950	13,470	13,656
380/381	Manufacture of fabricated metal products (except machinery and equipment)	178,324	281,605	221,201	284,054	726,848	303,089
382	Machinery except electrical	318,411	309,272	314,936	398,290	429,551	491,348
383	Electrical machinery, apparatus, appliances and supplies	345,786	445,417	610,759	635,308	769,599	394,980
384	Manufacture of transport equipment	703,677	331,295	524,199	737,243	1,288,836	708,142
385	Scientific precision and measuring instruments	50,376	40,781	41,407	51,689	62,459	68,798
386	Photographic and optical goods	4,614	1,323	7,958	---	1,612	15,589
391	Handicrafts	---	---	---	---	144	---
392	Sports and athletic goods	17,270	21,370	23,635	25,129	27,924	27,342
393	Other manufacturing industries	43,868	34,578	55,824	51,588	85,548	78,235
394	All other industries	83,663	111,628	271,971	1,946	---	---

## Note:

- a, Including major group 320.  
b, DU 322 and 325.  
c, DU 350, 352 and 356.  
d, DU 353 and 356.  
e, DU 361 and 362.  
f, DU 372 and 380.  
g, DU 385 and 386.  
h, DU 392, 393 and 394.

COUNTRY: PAKISTAN

Quantum index numbers of manufacturing (1969-70=100)

Year	Manufacturing (over all)	Selected Items					
		Cotton cloth	Cotton yarn	Cement	Cigarettes	Fertilizers	Vegetable products
1970-71	106.2	108.5	111.2	101.7	108.0	100.3	107.8
1971-72	105.7	103.6	122.9	98.1	97.3	159.7	128.4
1972-73	115.4	97.0	137.7	108.3	123.5	201.1	148.9
1973-74	122.4	97.6	138.9	118.4	122.8	218.2	178.5
1974-75	120.5	91.7	128.6	124.9	119.9	226.8	216.2
1975-76	119.8	85.8	128.0	120.2	122.8	235.4	220.5
1976-77	117.1	67.3	103.5	116.3	126.9	231.6	256.4
1977-78	128.8	64.5	109.0	121.5	140.0	228.2	286.5
1978-79	133.7	56.0	120.0	114.0	150.3	257.5	345.1
1979-80	148.9	56.4	132.8	126.1	104.5	291.6	371.3
1980-81	165.3	50.7	137.2	133.4	173.6	425.9	412.1
1981-82	188.0	53.6	157.4	137.9	181.7	518.7	444.1
1982-83	203.9	55.3	164.1	148.5	181.1	720.2	417.5

Source: Federal Bureau of Statistics, Pakistan Statistical Yearbook, 1975 and 1984.

COUNTRY: PAKISTAN

Quantum index numbers of manufacturing (1975-76=100)

Year	Manufacturing (overall)	Selected Items								
		Vegetable products	Cigarettes	Cotton yarn	Cotton cloth	Paper & board	Fertilizers	Cement	H.S. products	Automobiles
1976-77	99.8	117.5	103.4	80.8	78.5	104.9	99.7	96.1	116.9	81.2
1977-78	110.7	129.9	114.0	85.2	75.2	105.7	100.9	100.9	136.7	77.3
1978-79	119.4	156.6	122.0	93.7	65.2	202.7	116.0	94.6	157.1	100.1
1979-80	132.5	168.4	134.0	103.8	65.8	203.0	136.3	104.6	182.2	120.8
1980-81	147.7	186.3	141.4	107.2	59.2	217.5	194.6	110.7	214.4	89.4
1981-82	169.4	201.2	148.0	123.0	62.5	247.9	266.4	114.6	238.7	92.1
1982-83	186.4	189.3	147.6	128.2	64.5	247.3	361.2	123.4	266.2	152.2

Source: Federal Bureau of Statistics, Pakistan Statistical Yearbook, 1984.

II-3. Summary Statistics by Major group for Census  
of Manufacturing Industries in Punjab, 1970-1975.

Summary Statistics by Major Industry Group for Census of Manufacturing Industries in Punjab, 1970-75

Cost/Value in Million Rupees

Major Industry Group		Census year	No. of reporting factories	Value of fixed assets at the beginning of the year	Average daily employment during the year (1000No.)	Employment cost	Industrial cost	Value of production	Gross Value added
3	All groups	1970-71	1907	2360	220	491	3814	6083	2269
		1971-72	1896	3757	234	591	4261	6932	2671
		1972-73	2041	4027	238	742	5499	8681	3182
		1973-74	2019	4142	261	1018	6973	11103	4130
		1974-75	1828	4258	243	1163	7517	12147	4630
311/2	Food	1970-71	174	464	21	47	937	1321	384
		1971-72	194	544	21	64	982	1361	379
		1972-73	219	718	22	76	1315	1756	441
		1973-74	224	632	23	107	1740	2569	829
		1974-75	199	694	27	124	2145	3075	930
313	Beverages	1970-71	10	16	1	3	22	56	34
		1971-72	10	18	1	4	29	66	37
		1972-73	13	30	2	6	42	93	51
		1973-74	14	32	2	7	43	90	56
		1974-75	15	35	2	11	74	154	80
314	Tobacco	1970-71	4	11	2	7	67	185	118
		1971-72	4	26	2	5	44	185	140
		1972-73	5	15	2	9	68	255	187
		1973-74	3	22	2	10	93	316	223
		1974-75	4	22	2	13	82	443	361
32 / 1	Textiles	1970-71	350	711	103	192	764	1503	739
		1971-72	320	1165	104	223	890	1760	870
		1972-73	378	1126	117	321	1315	2489	1174
		1973-74	403	1425	132	424	1959	3414	1455
		1974-75	370	1358	126	521	1814	3106	1292
322	Wearing apparel	1970-71	3	1	-	-	-	1	-
		1971-72							
		1972-73							
		1973-74							
		1974-75							
323	Leather & leather products	1970-71	28	10	2	4	78	105	27
		1971-72	29	11	2	4	105	142	37
		1972-73	29	16	2	5	179	238	59



		1973-74	24	20	2	6	176	219	43
		1974-75	28	28	2	8	150	233	83
324	Footwear(except rubber footwear)	1970-71	7	9	2	5	21	34	13
		1971-72	9	9	2	6	31	49	18
		1972-73	8	16	3	8	44	67	23
		1973-74	6	7	1	5	23	31	8
		1974-75	5	8	1	5	26	35	9
		1970-71	128	73	9	15	952	1052	100
25	Ginning, pressing of fibres	1971-72	155	81	14	21	1178	1322	144
		1972-73	178	92	10	20	1342	1481	139
		1973-74	175	101	9	20	1389	1531	142
		1974-75	128	118	10	26	1059	1232	173
		1970-71	9	6	1	1	3	5	2
331	Wood & cork products(except furniture)	1971-72	10	6	1	1	4	7	3
		1972-73	10	5	-	1	4	6	2
		1973-74	13	10	1	2	10	13	3
		1974-74	13	13	1	2	22	29	7
		1970-71	20	4	1	3	6	12	6
332	Furniture & fixtures	1971-72	21	4	1	3	7	12	5
		1972-73	21	6	1	3	7	10	3
		1973-74	17	2	0	1	5	7	2
		1974-75	14	3	0	1	9	14	5
		1970-71	6	30	3	14	84	122	38
341	Paper and paper products	1971-72	8	96	4	15	61	116	56
		1972-73	7	125	4	18	72	154	82
		1973-74	7	117	4	24	82	152	70
		1974-75	7	118	4	28	220	332	112
		1970-71	82	31	4	8	24	56	32
342	Printing, publishing and allied industries	1971-72	82	40	4	11	28	60	32
		1972-73	76	37	3	9	19	45	26
		1973-74	71	47	3	12	44	72	28
		1974-75	73	46	3	17	46	84	38
		1970-71	51	26	3	8	39	86	47
350	Drugs & pharmaceutical products	1971-72	55	31	3	11	44	84	40
		1972-73	58	44	3	12	48	87	39
		1973-74	57	47	3	15	77	119	42
		1974-75	53	25	2	14	75	106	31

Summary Statistics by Major Industry Group for Census of  
Manufacturing Industries in Punjab, 1970-75

年 月 日

Cost/Value in Million Rupees

351	Industrial chemicals	1970-71	22	451	7	28	143	290	147
		1971-72	22	942	8	41	189	508	319
		1972-73	21	909	7	47	201	565	364
		1973-74	22	854	15	127	235	722	487
		1974-75	24	863	8	93	415	878	463
352	Other chemical products	1970-71	56	14	2	6	55	83	28
		1971-72	51	15	2	6	53	82	30
		1972-73	50	13	2	7	58	79	21
		1973-74	50	23	2	10	78	111	33
		1974-75	44	14	2	11	78	119	41
355	Rubber products	1970-71	26	15	5	26	56	108	52
		1971-72	28	17	5	15	71	127	56
		1972-73	31	16	5	18	91	139	48
		1973-74	32	31	8	43	169	234	65
		1974-75	28	23	5	32	166	461	295
356	Plastic products N.E.C.	1970-71	6	2	-	-	1	2	1
		1971-72	5	1	-	-	1	2	1
		1972-73	8	7	1	1	4	8	4
		1973-74	7	7	1	2	6	11	5
		1974-75	5	3	1	1	7	10	3
361	Pottery, china & earthen ware	1970-71	8	6	1	1	3	7	4
		1971-72	7	5	1	1	5	8	3
		1972-73	13	5	1	2	5	12	7
		1973-74	13	8	1	3	4	9	5
		1974-75	10	4	1	4	6	16	10
362	Glass & glass products	1970-71	10	5	2	3	6	13	7
		1971-72	9	5	1	3	7	16	9
		1972-73	12	6	1	3	9	18	9
		1973-74	10	8	1	3	9	15	6
		1974-75	9	8	1	4	13	25	12
369	Other non-metallic mineral products	1970-71	29	135	5	13	70	140	70
		1971-72	28	130	4	16	69	139	70
		1972-73	30	103	4	19	87	165	78
		1973-74	30	103	4	22	115	209	94
		1974-75	34	103	5	37	185	284	99
371	Iron and steel basic industries	1970-71	87	48	6	14	138	202	64
		1971-72	81	68	6	15	109	162	52

年 月 日

Summary Statistics by Major Industry Group for Census of  
Manufacturing Industries in Punjab, 1970=75

Cost/Value in Million Rupees

		1972-73	81	82	8	27	155	208	53
		1973-74	84	58	9	32	210	291	81
		1974-75	83	258	9	58	280	483	203
372	Non-ferrous metal basic industries	1970-71	3	-	-	-	1	1	-
		1971-72	5	1	-	-	2	3	-
		1972-73	7	1	-	-	2	3	1
		1973-74	6	1	0	0	7	8	1
		1974-75	4	1	0	0	2	3	1
380/1	Fabricated metal products (except machinery equipment)	1970-71	264	52	8	13	71	105	34
		1971-72	249	56	8	22	67	98	32
		1972-73	254	78	8	18	75	114	39
		1973-74	224	32	5	13	75	104	29
		1974-75	198	31	5	16	103	139	36
382	Machinery (except electrical)	1970-71	259	50	9	18	73	116	43
		1971-72	248	267	16	36	92	144	52
		1972-73	259	271	9	27	94	149	55
		1973-74	257	272	10	32	111	187	76
		1974-75	247	223	9	43	173	260	87
383	Electrical machinery and apparatus	1970-71	94	52	8	21	90	148	59
		1971-72	90	51	8	21	84	141	57
		1972-73	100	54	7	29	90	140	50
		1973-74	107	51	7	31	106	182	76
		1974-75	88	42	5	27	141	214	73
384	Transport equipment	1970-71	77	40	6	13	46	84	37
		1971-72	81	129	10	16	48	89	41
		1972-73	81	128	7	22	105	143	38
		1973-74	81	115	7	30	100	178	78
		1974-75	71	103	5	26	125	173	48
385	Measuring instruments and equipment	1970-71	48	12	5	11	12	32	20
		1971-72	47	15	5	12	15	36	21
		1972-73	43	12	5	12	22	50	28
		1973-74	42	16	5	15	35	61	26
		1974-75	39	15	4	18	41	84	43
386	Photographic and optical goods	1970-71	3	1	-	-	1	1	1
		1971-72	4	1	-	1	2	3	1
		1972-73	4	1	-	1	2	3	1
		1973-74	3	1	1	1	2	4	2

Summary Statistics by Major Industry Group for Census of  
Manufacturing Industries in Punjab, 1970-75

年 月 日

Cost/Value in Million Rupees

		1974-75	3	1	0	1	1	2	1
392	Sports and athletic goods	1970-71	21	3	1	3	9	15	6
		1971-72	20	3	1	3	10	20	10
		1972-73	18	4	1	4	18	31	13
		1973-74	18	4	1	5	22	33	11
		1974-75	12	3	1	5	20	40	20
		393/4	Misc. industries	1970-71 <sup>a/</sup>	22	24	3	15	42
1971-72 <sup>b/</sup>	24	20		2	15	34	190	156	
1972-73 <sup>c/</sup>	27	17		3	17	26	173	147	
1973-74	21	15		2	16	48	202	154	
1974-75 <sup>d/</sup>	16	13		2	17	39	113	74	

Source:

Development Statistics of the Punjab, 1977

Bureau of Statistics, Government of the Punjab, Lahore.

Note:

- a/ Include manufacture of petroleum products and handicrafts.
- b/ Include manufacture of wearing apparel, petroleum products and handicrafts.
- c/ Include manufacture of wearing apparel, petroleum products and handicrafts.
- d/ Include manufacture of petroleum products and handicrafts. Due to assurance of confidentiality provided to the respondents under the Industrial Statistics Act, information for Industries in which the number of factories is less than three is not being shown separately. Information for such Industries has, however, been included in figures of the Major Group of Miscellaneous Industries. Similar procedure has also been adopted in the tables.

II-4. Summary Statistics by Major Industry Group(Division)  
for Census of Manufacturing Industries in Sind,  
1970-71 to 1972-73 and 1975-76.

Summary Statistics by Major Industry Group (Division) for Census of Manufacturing Industries in Sind, 1970-71 to 1972-73 & 1975-76

Major Industry Group (Division)	Census year	No. of reporting establishments	Value of fixed assets at the end of the year	Average daily employment during the year (NOS)	Employment cost during the year	Industrial cost during the year	Value in 1000 Rupees	
							Value of production during the year	Gross census value added during the year
All industries	1970-71	1534	2205870	179226	570308	3625772	6178184	2558477
	1971-72	1472	2909542	214029	796265	4353238	7019966	2666728
	1972-73	1421	3491907	198228	842042	4953240	8426011	3472801
	1975-76	1415	3898823	212302	1456407	12292912	17540624	5247712
Food beverage tobacco	1970-71	319	324599	22224	68551	1050849	1731199	680331
	1971-72	234	383401	20449	124663	1168259	1682966	514707
	1972-73	272	471119	19738	83267	1344541	2043832	693291
	1975-76	178	490929	34435	146553	2359765	3717934	1358169
Textile wearing apparel and leather industries	1970-71	477	755633	93600	233001	1245326	2125749	880423
	1971-72	508	1036623	125382	327517	1582468	2652457	1069989
	1972-73	491	1610115	109362	433558	2094752	3440647	1345895
	1975-76	511	1551467	94252	536693	2901018	4274113	1373095
Wood and wood products including furniture	1970-71	25	13041	1367	2914	9756	20112	10356
	1971-72	22	12846	1153	3824	10868	18628	7760
	1972-73	17	11820	839	3338	15764	22809	7045
	1975-76	25	20421	1104	7656	32534	51512	18978
Paper and paper products, printing and publishing	1970-71	111	112234	5605	26529	82826	155732	72906
	1971-72	103	49860	4457	15865	51178	76984	25906
	1972-73	102	66112	12427	28165	79062	142533	63471
	1975-76	113	138427	4911	39964	156789	268302	111513
Chemicals and chemical petroleum, coal, rubber and plastic products	1970-71	202	285908	15447	81679	254877	725163	370286
	1971-72	188	393699	16348	96222	742441	1123812	381371
	1972-73	178	389119	15048	92612	460574	1159348	698774
	1975-76	203	574774	24104	216943	3850332	4758386	908054
Non-metallic mineral products except petroleum & coal	1970-71	52	280005	9544	29893	121594	227711	106117
	1971-72	43	220738	7530	27074	122372	197302	74930
	1972-73	33	254950	6633	26059	116614	259478	142864
	1975-76	41	295227	9276	72152	389728	630544	240816
Basic metal industries	1970-71	62	62758	4731	18176	164775	227580	62805
	1971-72	50	73331	5569	20932	176273	336323	160050
	1972-73	52	64719	4020	18085	175184	241061	65877
	1975-76	61	96423	4828	43892	570527	724576	154049

Manufacturing Industries in Sind, 1970-71 to 1972-73 & 1975-76

Major Industry Group (Division)	Census year	No. of reporting establishments	Value of fixed assets at the end of the year	Average daily employment during the year (NOS)	Employment cost during the year	Value in 1000 Rupees		
						Industrial cost during the year	Value of production during the year	Gross census Value added during the year
Fabricated metal product except machinery and equipment	1970-71	252	230384	21533	84898	334904	608462	273558
	1971-72	264	515012	28132	156425	396619	727350	330731
	1972-73	228	319595	25311	133914	551638	874882	323244
	1975-76	258	711257	37993	382508	2002047	3065556	1063509
Other manufacturing industries and handicrafts	1970-71	33	141308	2175	24667	260865	356495	95630
	1971-72	29	9670	1432	4693	20292	28062	7770
	1972-73	26	10915	1549	5442	19962	32419	12457
	1975-76	25	12898	1399	10046	30172	49701	19529
Other industries	1970-71	-	-	-	-	-	-	-
	1971-72	21	214362	3577	19050	82468	176082	93614
	1972-73	22	293443	3201	17602	95149	209032	113883
	1975-76	-	-	-	-	-	-	-

Source:

Development Statistics of Sind, 1979.

Bureau of Statistics, Planning and Development Department,  
Government of Sind, Karachi.

II-5. Shares of the Manufacturing Industries by Province,  
1969-70 and 1975-76.



Shares of the Manufacturing Industry by Province, 1969-70 and 1975-76

No.

Major Groups	Province	No. of Establishments		Fixed Assets		Employment		Wages and Salaries		Gross Output		Value added	
		1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76
3	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	57	53	45	45	52	46	47	45	48	43	46	44
	N.W.F.P.	40	42	43	46	40	46	46	48	44	49	46	45
	Baluchistan	3	5	12	9	7	7	7	7	8	8	8	11
		0	0	0	0	1	0	0	0	0	0	0	0
311/2	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	37	49	51	56	49	54	47	56	50	54	52	52
	N.W.F.P.	57	42	34	34	34	34	40	38	36	32	30	28
	Baluchistan	5	9	15	10	17	12	13	8	14	14	16	20
		1		0		0		0		0		0	20
313	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	46	60	61	63	69	69	67	68	75	67	78	67
	N.W.F.P.	46		33		26		25		19		16	
	Baluchistan	8	40	6	37	5	31	8	32	6	33	6	33
314	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	10	18	18	30	22	30	14	28	19	32	22	48
	N.W.F.P.	67	53	37	41	47	40	46	47	48	48	59	44
	Baluchistan	23	29	45	29	31	30	40	25	33	20	19	28
		-	-	-	-	-	-	-	-	-	-	-	-
320/21	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	52	44	49	45	49	52	47	50	44	46	46	42
	N.W.F.P.	46	49	43	47	44	39	48	44	49	47	48	49
	Baluchistan	2	7	7	8	6	7	5	6	6	8	6	9
		0		1		1		0		1		0	9
322	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind		16		6		17		9		4		5
	N.W.F.P.		84		94		83		91		96		95
	Baluchistan		-		-		-		-		-		-
323	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	52	42	62	26	62	13	53	50	59	43	42	54
	N.W.F.P.	42	53	31	72	35	87	45	49	40	57	57	46
	Baluchistan	6	5	7	2	3	0	2	1	1	0	1	0
		-	-	-	-	-	-	-	-	-	-	-	-

Shares of the Manufacturing Industry by Province, 1969-70 and 1975-76

No.

Major Groups	Province	No. of Establishments		Fixed Assets		Employment		Wages and Salaries		Gross Output		Value added	
		1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76
324		100	100	100	100	100	100	100	100	100	100	100	100
	Punjab	52	24	67	77	69	81	76	79	77	73	87	74
	Sind	68	76	33	23	31	19	24	21	23	27	13	26
	N.W.F.P.	-	-	-	-	-	-	-	-	-	-	-	-
	Baluchistan	-	-	-	-	-	-	-	-	-	-	-	-
325		100	100	100	100	100	100	100	100	100	100	100	100
	Punjab		79		57		52		50		77		62
	Sind		21		23		28		50		23		36
	N.W.F.P.		-		-		-		-		-		-
	Baluchistan		-		-		-		-		-		-
331		100	100	100	100	100	100	100	100	100	100	100	100
	Punjab	50	59	60	69	77	51	71	49	82	45	72	34
	Sind		41		31		49		51		55		66
	N.W.F.P.	50	-	40	-	23	-	29	-	16	-	28	-
	Baluchistan		-		-		-		-		-		-
332		100	100	100	100	100	100	100	100	100	100	100	100
	Punjab	51	38	33	16	46	33	40	30	49	24	55	24
	Sind	43	47	53	62	51	45	59	54	50	60	44	52
	N.W.F.P.	6	15	14	22	3	22	1	16	1	16	1	22
	Baluchistan	-	-	-	-	-	-	-	-	-	-	-	-
341		100	100	100	100	100	100	100	100	100	100	100	100
	Punjab	x	25	25	28	26	42	21	42	16	44	11	30
	Sind	72											
	N.W.F.P.	x	75	75	72	74	56	79	58	84	56	89	70
	Baluchistan	x	28										
342		100	100	100	100	100	100	100	100	100	100	100	100
	Punjab	49	40	56	41	53	48	53	39	46	32	51	35
	Sind	44	55	41	58	44	46	46	58	53	66	48	62
	N.W.F.P.	5	5	2	1	3	6	1	3	1	2	1	3
	Baluchistan	2		1		0		0		0		0	
350		100	100	100	100	100	100	100	100	100	100	100	100
	Punjab		42		21		14		19		18		15
	Sind		50		75		83		77		78		82
	N.W.F.P.		6		4		3		4		4		3
	Baluchistan												

Shares of the Manufacturing Industry by Province, 1969-70 and 1975-76

No.

Major Groups	Province	No. of Establishments		Fixed Assets		Employment		Wages and Salaries		Gross Output		Value added	
		1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76
351	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	47	38	49	63	47	60	38	54	38	61	43	68
	N.W.F.P.	50	62	48	37	47	40	58	46	55	39	53	32
	Baluchistan	2		2		5		3		6		4	
	Baluchistan	1	1	1	1	1	1	1	1	1	0	0	
352	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind		38		17		8		17		21		16
	N.W.F.P.		55		51		38		26		22		26
	Baluchistan		7		32		4		7		7		8
353	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind												
	N.W.F.P.												
	Baluchistan												
354	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind												
	N.W.F.P.												
	Baluchistan												
355	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	60	54	33	48	53	81	38	27	25	69	13	26
	N.W.F.P.	40	46	67	32	47	19	62	23	25	31	87	24
	Baluchistan	-	-	-	-	-	-	-	-	-	-	-	-
	Baluchistan	-	-	-	-	-	-	-	-	-	-	-	-
356	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind		27		32		33		28		36		28
	N.W.F.P.		23		68		67		22		64		22
	Baluchistan		-		-		-		-		-		-
	Baluchistan		-		-		-		-		-		-
361	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind												
	N.W.F.P.		100		100		102		100		100		100
	Baluchistan												

Shares of the Manufacturing Industry by Province, 1969-70 and 1975-76

No.

Major Groups	Province	No. of Establishments		Fixed Assets		Employment		Wages and Salaries		Gross Output		Value added	
		1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76
362	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind		47		13		42		38		48		47
	N.W.F.P.		53		87		58		62		52		53
	Baluchistan		-		-		-		-		-		-
369	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	44	49	24	31	44	21	40	25	41	36	43	31
	N.W.F.P.	47	42	43	56	50	76	54	55	47	54	43	57
	Baluchistan	) 9	) 9	) 33	) 13	) 6	) 3	) 6	) 10	) 12	) 10	) 14	) 12
371	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	74	64	41	55	74	64	67	60	58	49	60	50
	N.W.F.P.	25		48		22		29		39		37	
	Baluchistan	) 1	) 34	) 11	) 45	) 4	) 36	) 4	) 40	) 3	) 51	) 3	) 50
372	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind		50		26		20		12		22		13
	N.W.F.P.		50		74		80		88		78		87
	Baluchistan		-		-		-		-		-		-
380/1	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	63	63	38	34	55	40	39	25	40	35	40	23
	N.W.F.P.	34	33	59	61	42	58	59	73	59	61	59	74
	Baluchistan	3	4	3	5	3	2	2	2	1	4	1	3
382	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	25	82	82	47	89	59	86	48	89	55	88	40
	N.W.F.P.	15		18		11		14		11		12	
	Baluchistan	) 0	) 18	) 0	) 53	) 0	) 41	) 0	) 52	) 0	) 45	) 0	) 60
383	Punjab	100	100	100	100	100	100	100	100	100	100	100	100
	Sind	72	71	31	21	40	34	32	23	38	25	41	17
	N.W.F.P.	26	29	29	79	32	66	39	77	48	75	45	83
	Baluchistan	) 2	-	) 40	-	) 28	-	) 29	-	) 14	-	) 14	-

Shares of the Manufacturing Industry by Province, 1969-70 and 1975-76

年 月 日

No.

Major Groups	Province	No. of Establishments		Fixed Assets		Employment		Wages and Salaries		Gross Output		Value added			
		1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76	1969-70	1975-76		
384	Punjab	100	100	100	100	100	100	100	100	100	100	100	100		
	Sind	68	61	26	32	46	29	36	17	36	22	49	11		
	N.W.F.P.	29	37	74	68	53	71	64	83	64	78	51	89		
	Baluchistan	3	2	0	0	1	0	0	0	0	0	0	0		
		-	-	-	-	-	-	-	-	-	-	-	-		
385	Punjab	100	100	100	100	100	100	100	100	100	100	100	100		
	Sind		83		80		92		91		85		80		
	N.W.F.P.		17		20		8		9		15		20		
	Baluchistan		-		-		-		-		-		-		
			-		-		-		-		-		-		
386	Punjab	100	100	100	100	100	100	100	100	100	100	100	100		
	Sind		43		57		45		49		37		23		
	N.W.F.P.		57		43		55		51		63		77		
	Baluchistan		-		-		-		-		-		-		
			-		-		-		-		-		-		
390	Punjab	100	100	100	100	100	100	100	100	100	100	100	100		
	Sind				70		70		58		70		51		
	N.W.F.P.				29		30		42		30		29		
	Baluchistan		2		1		0		0		0		0		
			-		-		-		-		-		-		
392	Punjab	100	100	100	100	100	100	100	100	100	100	100	100		
	Sind														
	N.W.F.P.		100		100		100		100		100		100		
	Baluchistan														
393	Punjab	100	100	100	100	100	100	100	100	100	100	100	100		
	Sind		45		42		35		32		50		43		
	N.W.F.P.														
	Baluchistan		55		58		65		68		50		57		
			-		-		-		-		-		-		
394	Punjab	100	100	100	100	100	100	100	100	100	100	100	100		
	Sind														
	N.W.F.P.		100		100		100		100		100		100		
	Baluchistan														

II-6. Summary Statistics of Manufacturing Household/  
Establishments by Industry, 1976-77.

## Summary Statistics of Manufacturing Households/Establishments by Industry, 1976-77

COUNTRY: PAKISTAN

(Value in 1000 Rupees)

Industry		No. of establishments	Fixed assets	No. of person engaged	Wages and salaries	Gross output	Value added
3	All industries	108,642	955,240	379,949	579,589	5,197,323	2,599,617
311/	Manufacture of food	7,908	202,085	23,653	33,495	632,325	225,018
312							
313	Manufacture of beverages	201	3,568	732	1,079	11,249	5,368
314	Manufacture of tobacco	1,933	7,884	17,443	24,534	110,990	66,130
321	Manufacture of textiles	33,819	254,462	128,581	211,200	2,147,883	871,562
322	Manufacture of wearing apparel except footwear	2,445	4,663	6,220	4,462	33,697	28,065
323	Manufacture of leather and leather products etc. except footwear and wearing apparel	870	7,753	2,652	4,053	70,263	34,792
324	Manufacture of footwear except vulcanised moulded rubber/plastic footwear	9,454	14,605	20,617	22,664	271,911	140,077
325	Ginning, pressing and baling of fibres	121	816	309	246	2,196	2,001
331	Manufacture of wood and wood and cork products except furniture	5,211	55,030	14,008	18,872	96,855	88,487
332	Manufacture of furniture and fixtures except primarily of metal	7,284	22,558	16,435	18,557	167,038	113,583
341	Manufacture of paper and paper products	1,184	3,043	3,231	2,316	32,996	26,507
342	Printing, publishing and allied industries	964	29,640	4,137	10,469	29,456	40,535
350	Manufacture of drugs and pharmaceutical products	118	3,446	765	1,878	14,117	6,617
351	Manufacture of industrial chemicals	112	1,360	418	768	1,801	2,386
352	Manufacture of other chemical products	918	9,266	2,823	3,897	100,322	29,048
354	Manufacture of miscellaneous products of petroleum and coal	11	47	25	7	462	132
355	Manufacture of rubber products	223	3,270	742	1,398	12,803	4,750
356	Manufacture of plastic products n.e.c.	1,688	8,694	6,225	12,046	86,912	51,198

## Summary Statistics of Manufacturing Households/Establishments by Industry, 1976-77

(Value in 1000 Rupees)

COUNTRY: PAKISTAN

	Industry	No. of establishments	Fixed assets	No. of person engaged	Wages and salaries	Gross output	Value added
361	Manufacture of pottery, china and earthenware	2,123	6,614	5,779	4,570	46,812	25,376
362	Manufacture of glass and glass products	209	2,620	1,341	1,319	9,880	5,187
369	Manufacture of other non-metallic mineral products	1,500	32,619	30,990	62,599	311,815	160,881
371	Iron and steel basic industries	811	18,390	3,379	6,961	48,279	22,638
372	Non-ferrous metal basic industries	40	856	108	120	724	573
381	Manufacture of fabricated metal products except machinery and equipment	9,060	80,693	29,535	48,218	309,839	212,404
382	Manufacture of machinery except electrical	5,305	88,529	16,534	26,138	150,916	131,209
383	Manufacture of electrical machinery, apparatus appliances and supplies	1,345	24,031	5,248	9,984	68,433	42,209
384	Manufacture of transport and equipment	2,311	17,724	6,781	10,083	72,381	54,921
385	Manufacture of scientific, precision and measuring instruments and equipments	360	5,320	3,262	4,499	33,465	24,312
386	Manufacture of photographic and optical goods	14	72	38	62	467	322
391	Handicrafts	1,009	4,229	2,561	2,433	13,028	10,901
392	Manufacture of sports and athletic goods	480	7,287	3,285	9,441	61,933	23,990
394	Other manufacturing industries	9,611	34,090	22,092	21,210	156,075	148,438



III. Convertors between ISIC and National Industrial  
Classification

<u>ISIC</u>	<u>PSIC</u>	<u>PSIC Sector</u>
3	3	MANUFACTURING
31	31	MANUFACTURE OF FOOD, BEVERAGES AND TOBACCO
311	311A	FOOD MANUFACTURING
3111	3111	SLAUGHTERING, PREPARING, CANNING AND PRESERVING OF MEAT
3111	31111	SLAUGHTERING OF ALL MEAT ANIMALS & BIRDS & PREPARING OF MEAT
3111	31112	CANNING & PRESERVING OF MEAT
3111	31113	RENDERING AND REFINING OF EDIBLE ANIMAL OILS AND FATS
3111	31119	SLAUGHTERING, PREPARING AND PRESERVING OF MEAT N.E.C.
3112	3112	MANUFACTURE OF DAIRY PRODUCTS
3112	31121	DAIRY PRODUCTS EXCEPT ICE CREAM
3112	31122	ICE CREAM
3113	3113	PROCESSING, CANNING & PRESERVING OF FRUITS & VEGETABLES
3114	3114	PROCESSING, CANNING & PRESERVING OF FISH & OTHER SEA FOOD
3115	3115	MANUFACTURE OF VEGETABLE AND INEDIBLE ANIMAL OILS AND FATS
3115	31151	HYDROGENATED VEGETABLE OILS
3115	31152	VEGETABLE OILS EXCEPT HYDROGENATED OILS & COTTON SEED OILS
3115	31153	COTTON SEED OILS
3115	31159	MANUFACTURE OF VEGETABLE & INEDIBLE ANIMAL OILS & FATS NEC.
3116	3116	GRAIN MILLING AND PRODUCTS THEREOF
3116	31161	RICE MILLING
3116	31162	WHEAT AND GRAIN MILLING (EXCEPT RICE)
3116	31163	PREPARATION OF GRAIN MILLED PRODUCTS
3116	31169	WHEAT AND GRAIN MILLING AND PRODUCTS THEREOF N.E.C.
3117	3117	MANUFACTURE OF BAKERY PRODUCTS
3117	31171	BREADS BUNS AND OTHER BAKERY PRODUCTS EXCEPT BISCUIT
3117	31172	BISCUITS
3117	31179	MANUFACTURE OF BAKERY PRODUCTS N.E.C.
3118	3118	MANUFACTURE OF SUGAR, 'KHANDSARI' AND 'GUR'
3118	31181	REFINED SUGAR
3118	31182	SUGAR 'KHANDSARI'
3118	31183	'GUR' (CANE)
3118	31184	'GUR' (DATE AND PALMYRA PALM)
3118	31189	MANUFACTURE OF SUGAR, 'KHANDSARI' AND 'GUR' N.E.C.
3119	3119	MANUFACTURE OF COCOA CHOCOLATE AND SUGAR CONFECTIONERY
3119	31191	MFG. OF COCOA, CHOCOLATE & CONFECTIONERY EXC. 'DESI' SWEETMEAT
3119	31192	'DESI' SWEETMEATS
3119	31199	MANUFACTURE OF CONFECTIONERY N.E.C.
3121	3121	PROCESSING AND BLENDING OF TEA AND COFFEE
3121	31211	PROCESSING OF TEA
3121	31212	BLENDING OF TEA
3121	31213	PROCESSING AND BLENDING OF COFFEE
3122	3122	MANUFACTURE OF PREPARED ANIMAL FEEDS
3122	31221	FEEDS FOR ANIMALS
3122	31222	FEEDS FOR FOWLS
3122	31229	FOOD MANUFACTURING N.E.C.
3122	31291	STARCH AND ITS PRODUCTS
3122	31292	EDIBLE SALT REFINING
3122	31293	MANUFACTURE OF ICE
3122	31299	MANUFACTURE OF MISCELLANEOUS FOOD PRODUCTS N.E.C.
313	313	BEVERAGE INDUSTRIES
3131	3131	DISTILLING RECTIFYING AND BLENDING OF SPIRITS
3132	3132	MANUFACTURE OF WINE
3133	3133	BREWERIES AND MANUFACTURE OF MALT
3134	3134	MANUFACTURE OF SOFT DRINKS & CARBONATED WATER
3134	31341	FRUIT DRINKS

3134	31349	MANUFACTURE OF SOFT DRINKS CARBONATED WATER ETC. N.E.C.
314	314	TOBACCO MANUFACTURING
3140	3141	CIGARETTES (INCLUDING PIPE TOBACCO)
3140	3142	CIGARS AND CHEROOTS
3140	3143	'EIDIES'
3140	3144	TOBACCO STEMMING AND RE-DRYING
3140	3145	'ZARDA' AND 'QIVAM' (QIMAM)
3140	3149	TOBACCO MANUFACTURING N.E.C.
32	320	TEXTILE, WEARING APPAREL AND LEATHER INDUSTRIES
321	3201	SPINNING, WEAVING & FINISHING OF COTTON TEXTILES EX.HANDLOOM
321	32011	SPINNING OF COTTON
321	32012	WEAVING AND FINISHING OF COTTON TEXTILES
321	3202	SPINNING, WEAVING & FINISHING OF WOOLEN TEXTILES EX.HANDLOOM
321	3203	SPINNING, WEAVING AND FINISHING OF JUTE TEXTILES EX.HANDLOOM
321	3204	SPINNING, WEAVING & FINISHING OF SILK, ART SILK & SYNTHETIC
321	3205	SPINNING, WEAVING & FINISHING OF NARROW FABRICS
321	3206	SPINNING, WEAVING & FINISHING OF TEXTILES HANDLOOM ONLY
321	32061	SPINNING, WEAVING & FINISHING OF COTTON TEXTILES-HANDLOOM ONLY
321	32062	SPINNING WEAVING AND FINISHING OF TEXTILES OTHER THAN COTTON
321	3207	DYEING, BLEACHING AND FINISHING OF TEXTILES ONLY
321	321	MANUFACTURE OF TEXTILES
3211		
3212	3212	MADE-UP TEXTILE GOODS EXCEPT WEARING APPAREL
3213	3213	KNITTING MILLS
3214	3214	CARPETS AND RUGS
3214	32141	COTTON
3214	32142	WOOL
3214	32143	JUTE
3214	32149	CARPETS AND RUGS N.E.C.
3215	3215	CORDAGE, ROPE AND TWINE
3215	3216	SPOOLING AND THREAD BALL MANUFACTURING
3219	3219	MANUFACTURE OF TEXTILES N.E.C.
322	322	MANUFACTURE OF WEARING APPAREL EXCEPT FOOTWEAR
3220	3221	READY MADE GARMENTS
3220	3222	HATS AND CAPS
3220	3229	WEARING APPAREL N.E.C. EXCEPT FOOTWEAR
323	323	MNF. OF LEATHER & LEATHER PRODUCTS, LEATHER SUBSTITUTES & FUR
3231	3231	TANNING AND LEATHER FINISHING
3232	3232	FUR DRESSING AND DYEING
3233	3233	MANUFACTURE OF PRODUCTS OF LEATHER & LEATHER SUBSTITUTES
3233	32331	HANDBAGS AND PURSES
3233	32332	SUITCASES
3233	32333	MNF. OF PRODUCTS OF LEATHER & LEATHER SUBSTITUTES N.E.C.
324	324	MNF. OF FOOTWEAR EXC. VULCANIZED OR MOLDDED RUBBER OF PLASTIC
3240	3241	LEATHER FOOTWEAR
3240	3249	OTHER FOOTWEAR N.E.C. EXCEPT RUBBER AND PLASTIC
3240	325	GINNING, PRESSING AND Baling OF FIBRES
3240	3251	COTTON
3240	3252	WOOL
3240	3253	JUTE
3240	3259	GINNING, PRESSING AND Baling OF FIBRES N.E.C.
33	33	MANUFACTURE OF WOOD AND WOOD PRODUCTS INCLUDING FURNITURE
331	331	MANUFACTURE OF WOOD & WOOD & CORK PRODUCT EXCEPT FURNITURE
3311	3311	SAW AND PLANING MILLS
3312	3312	PLYWOOD AND PLYWOOD PRODUCTS

3312	3313	WOOD ARTICLES
3312	3314	HARD-BEARD AND ITS PRODUCTS
3312	3315	BAMBOO AND CANE PRODUCTS
3319	3319	MNF. OF WOOD & WOOD & CORK PRODUCTS N.E.C. EXCEPT FURNITURE
332	332	MNF. OF FURNITURE AND FIXTURES EXCEPT PRIMARILY OF METAL
3320	3321	WOODEN FURNITURE
3320	3322	FIXTURES
3320	3323	CANE FURNITURE
3320	3324	'CHIKS'
3320	3329	MNF. OF FURNITURE & FIXTURES N.E.C. EXCEPT PRIMARILY METAL
34	34	MANUFACTURE OF PAPER & PAPER PRODUCTS, PRINTING & PUBLISHING
341	341	MANUFACTURE OF PAPER AND PAPER PRODUCTS
3411	3411	MANUFACTURE OF PULP AND PAPER
3412	3412	MANUFACTURE OF PAPERBOARD
3412	3413	MANUFACTURE OF ARTICLES OF PULP, PAPER AND PAPERBOARD
3419	3419	MANUFACTURE OF PAPER AND PAPER PRODUCTS N.E.C.
342	342	PRINTING, PUBLISHING AND ALLIED INDUSTRIES
3420	3421	PRINTING AND PUBLISHING OF NEWSPAPERS
3420	3422	PRINTING & PUBLISHING OF BOOKS, PERIODICALS, MAPS, ATLASES, ETC.
3420	3423	COMMERCIAL LITHOGRAPHING AND JOE FINISHING
3420	3424	MANUFACTURE OF PRINTED CARDS AND STATIONERY
3420	3425	BOOK BINDING AND OTHER ACTIVITIES RELATED TO BINDING
3420	3426	METAL SHEETS PRINTING
3420	3429	PRINTING, PUBLISHING AND ALLIED INDUSTRIES N.E.C.
35	35	MNF. OF CHEMICALS & CHEMICAL, PETROLEUM, COAL, RUBBER, PLASTIC
35	350	MANUFACTURE OF DRUGS AND PHARMACEUTICAL PRODUCTS
35	3501	MEDICAL AND PHARMACEUTICAL PREPARATION INCLUDING BASIC DRUGS
35	3502	'UNAI' MEDICINES
35	3503	'AYURO-VEDIC' MEDICINES
35	3504	HOMOEOPATHIC AND ECCHEMIC MEDICINES
35	3509	MEDICINAL AND PHARMACEUTICAL PREPARATION N.E.C.
351	351	MANUFACTURE OF INDUSTRIAL CHEMICALS
3511	3511	ACIDS, ALKALIES, SALTS (EXCL. COMMON SALT) AND INTERMEDIATES
3511	35111	ALKALIES
3511	35112	ACIDS (EXCEPT SULFURIC ACID) SALTS AND INTERMEDIATE
3511	35113	SULPHURIC ACID
3512	3512	DYES, COLORS, AND PIGMENTS
3513	3513	COMPRESSED, LIQUIFIED AND SOLIDIFIED GASES
3513	3514	MANUFACTURES OF FERTILIZERS
3513	3515	MNF. OF PESTICIDES INSECTICIDES, FUNGICIDES & HERBICIDES
3513	3516	MNF. OF SYNTHETIC RESINS, PLASTIC MATERIALS & MAN-MADE FIBRE
3513	3519	MANUFACTURE OF INDUSTRIAL CHEMICALS N.E.C.
352	352	MANUFACTURE OF OTHER CHEMICAL PRODUCTS
3521	3521	MNF. OF PAINTS, VARNISHES & LACQUERS INCL. ALLIED PRODUCTS
3522	3522	MANUFACTURE OF PERFUMES AND COSMETICS
3523	3523	MANUFACTURE OF SOAP (ALL KINDS) AND DETERGENTS
3523	3524	MANUFACTURE OF POLISHES AND WAXES
3523	3525	MANUFACTURE OF MATCHES
3523	3526	MANUFACTURE OF INK (ALL KINDS)
3523	3527	MANUFACTURE OF CANDLES
3529	3529	MANUFACTURE OF CHEMICAL PRODUCTS N.E.C.
353	353	PETROLEUM REFINING
3530		
354	354	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL
3540	3541	PETROLEUM PRODUCTS

3540	3542	COAL PRODUCTS AND BY-PRODUCTS
355	355	MANUFACTURE OF RUBBER PRODUCTS
3551	3551	MANUFACTURE OF TYRES AND TUBES
3551	3552	REBUILDING AND RETREATING TYRES AND TUBES
3559	3559	MANUFACTURE OF RUBBER PRODUCTS N.E.C.
3559	35591	RUBBER FOOTWEAR
3559	35592	VULCANISED RUBBER PRODUCTS
3559	35593	RUBBER BELTING
3559	35599	MISCELLANEOUS RUBBER PRODUCTS N.E.C. INCL. RUBBER BALLOONS
356	356	MANUFACTURE OF PLASTIC PRODUCTS N.E.C.
3560		
36	36	MANUFACTURE OF NON-METALIC PRODUCTS, EXCEPT PETROLEUM & COAL
361	361	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE
3610	3611	EARTHENWARE
3610	3612	CHINA AND CERAMIC
3610	3619	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE N.E.C.
362	362	MANUFACTURE OF GLASS AND GLASS PRODUCTS
362	3621	MANUFACTURE OF GLASS
362	3622	MANUFACTURE OF GLASS PRODUCTS
369	369	MANUFACTURE OF OTHER NON-METALIC MINERAL PRODUCTS
3691	3691	MNF. OF BRICKS, TILES AND OTHER STRUCTURAL CLAY PRODUCTS
3692	3692	MANUFACTURE OF CEMENT
3692	3693	MANUFACTURE OF CEMENT PRODUCTS
3692	3694	MANUFACTURE OF LIME AND PLASTER AND THEIR PRODUCTS
3692	3695	MANUFACTURE OF REFRACTORIES
3699	3699	MANUFACTURE OF NON-METALIC MINERAL PRODUCTS N.E.C.
37	37	BASIC METAL INDUSTRIES
371	371	IRON AND STEEL BASIC INDUSTRIES
3710	3711	IRON AND STEEL MILLS
3710	3712	IRON AND STEEL FOUNDRIES
3710	3713	IRON AND STEEL RE-ROLLING MILLS
3710	3719	IRON AND STEEL BASIC INDUSTRIES N.E.C.
372	372	NON-FERROUS METAL BASIC INDUSTRIES
3720	3721	PRODUCTION OF BASIC ALUMINIUM AND ALUMINIUM ALLOYS
3720	3722	PRODUCTION OF BASIC COPPER AND COPPER ALLOYS
3720	3729	PRODUCTION OF OTHER BASIC NON-FERROUS METALS AND ALLOYS
38	38	MNF. OF FABRICATED METAL PRODUCTS, MACHINERY AND EQUIPMENT
38	380A	MNF. OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY & EQUIPMENT
38	3801	CUTLERY
38	3802	HAND AND EDGE TOOLS
38	3803	RAZOR, SAFETY RAZORS AND RAZOR BLADES
38	3804	FURNITURE AND FIXTURES PRIMARILY OF METAL
38	3805	STRUCTURAL METAL PRODUCTS
38	3806	METAL STAMPING, COATING, ELECTROPLATING, GALVANIZING ETC.
38	3807	HEATING, COOKING AND LIGHTING EQUIPMENT
38	3808	WIRE PRODUCTS
38	3809	UTENSILS - ALUMINIUM
381		
3811	3811	UTENSILS - COPPER AND BRASS
3812	3812	UTENSILS - STEEL
3813	3813	METAL BARRELS AND DRUMS
3813	3814	TIN CANS AND TINWARE
3813	3815	METAL TRUNKS
3813	3816	BOLTS, NUTS, RIVETS AND WASHERS
3813	3817	PUMPING EQUIPMENT

3813	3818	SAFES AND VAULTS
3813	3819	MNF. OF FABRICATED METAL PRODUCTS N.E.C. EXCEPT MACHINERY
382	382	MANUFACTURE OF MACHINERY EXCEPT ELECTRICAL
3821	3821	MANUFACTURE OF ENGINES AND TURBINES
3822	3822	MANUFACTURE OF AGRICULTURAL MACHINERY AND EQUIPMENT
3823	3823	MANUFACTURE OF METAL AND WOOD WORKING MACHINERY
3824	3824	MANUFACTURE OF TEXTILE MACHINERY
3825	3825	MNF. OF INDUSTRIAL MACHINERY EXC. AGRICULTURAL METAL-WORKING
3825	3826	MANUFACTURE OF OFFICE, COMPUTING AND ACCOUNTING MACHINES
3825	3827	MANUFACTURE OF SEWING MACHINES
3829	3829	MACHINERY AND EQUIPMENT N.E.C. EXCEPT ELECTRICAL
383	383	MANUFACTURE OF ELECTRICAL MACHINERY, APPARATUS AND SUPPLIES
3831	3831	MANUFACTURE OF ELECTRICAL INDUSTRIAL MACHINERY AND APPARATUS
3832	3832	MNF. OF RADIO, TELEVISION & COMMUNICATION EQUIPMENT & APPARATUS
3832	38321	RADIO & TELEVISION RECEIVING & TRANSMITTING EQUIPMENT
3832	38322	GRAMOPHONES, DICTATING MACHINES AND TAPE RECORDERS
3832	38323	TELEPHONE AND TELEGRAPH EQUIPMENT
3832	38324	SIGNALLING AND DETECTION EQUIPMENT AND APPARATUS
3832	38325	RADIOGRAPHIC, FLUOROSCOPIC & OTHER X-RAY APPARATUS AND TUBES
3832	38329	COMMUNICATION EQUIPMENT AND APPARATUS N.E.C.
3833	3833	MNF. OF ELECTRICAL APPLIANCES INCLUDING FANS AND HOUSEWARES
3833	3834	INSULATED WIRES AND CABLES
3833	3835	MANUFACTURE OF ELECTRICAL BULBS AND TUBES
3833	3836	BATTERIES
3839	3839	MANUFACTURE OF ELECTRICAL APPARATUS AND SUPPLIES N.E.C.
384	384	MANUFACTURE OF TRANSPORT EQUIPMENT
3841	3841	SHIP BUILDING AND REPAIRING (MECHANICALLY FINISHED)
3842	3842	BOAT BUILDING AND REPAIRING (NON-MECHANICAL)
3843	3843	MANUFACTURE OF RAILROAD EQUIPMENT
3844	3844	MANUFACTURE OF MOTOR VEHICLES
3845	3845	MANUFACTURE OF MOTOR CYCLES, AUTO RICKSHAWS
3845	3846	MANUFACTURE OF CYCLES AND PEDICABS
3845	3847	MANUFACTURE OF AIRCRAFT
3845	3848	MANUFACTURE OF ANIMAL AND HAND DRAWN CARTS AND CARRIAGES
3849	3849	MANUFACTURE OF TRANSPORT EQUIPMENT N.E.C.
385	385	MNF. OF SCIENTIFIC PRECISION & MEASURING INSTRUMENTS & EQUIP.
3851	3851	MNF. OF SURGICAL, MEDICAL & DENTAL INSTRUMENTS, EQUIPMENT
3852	3852	MANUFACTURE OF WATCHES AND CLOCKS
3853	3853	MANUFACTURE OF WEIGHTS AND SCALE
3853	3859	MNF. OF SCIENTIFIC, PRECISION & MEASURING INSTRUMENTS N.E.C.
3853	386	MANUFACTURE OF PHOTOGRAPHIC AND OPTICAL GOODS
3853	3861	MANUFACTURE OF PHOTOGRAPHIC GOODS
3853	3862	MANUFACTURE OF OPTICAL GOODS
39	39	OTHER MANUFACTURING INDUSTRIES AND HANDICRAFTS
390		
3901		
3902		
3903		
3909	391	HANDICRAFTS
3909	3911	WOOD, CANE AND BAMBEE HANDICRAFTS
3909	3912	PAPER AND PAPER PRODUCT HANDICRAFTS
3909	3913	RUBBER AND PLASTIC HANDICRAFTS
3909	3914	MARBLE CHINA, CERAMIC AND GLASS HANDICRAFTS
3909	3915	METAL HANDICRAFTS
3909	3919	HANDICRAFTS

3909	392	MANUFACTURE OF SPORTS AND ATHLETIC GOODS
3909	393	OTHER MANUFACTURING INDUSTRIES
3909	3931	JEWELLERY - PRECIOUS METAL
3909	3932	IMITATION JEWELLERY
3909	3933	MANUFACTURE OF MUSICAL INSTRUMENTS
3909	3934	TOYS - MECHANICAL
3909	3935	TOYS- NON-MECHANICAL
3909	3936	PENCILS
3909	3937	PENS OTHER OFFICE ARTICLES AND SUPPLIES
3909	3938	UMBRELLA AND WALKING STICKS
3909	3939	BUTTONS, STUDS, HOOKS AND FASTENERS
3909	3941	SIGNS AND ADVERTISING DISPLAYS
3909	3942	ROPE CRUSHING
3909	3943	BANGLES (ALL KINDS EXCEPT PRECIOUS METAL)
3909	3949	OTHER MANUFACTURING INDUSTRIES N.E.C.

IV. Commodity Balance Sheets



List of Commodities

<u>Table No.</u>	<u>Commodity</u>	<u>ISIC Code</u>	<u>SITC Code (Rev. 1)</u>
1.	Butter	311207	023
2.	Oils of vegetable origin	311510	
		311513	4212
		311516	
		311519	4213
		311522	
		311525	4214
		311528	
		311531	4215
		311534	
		311537	422
3.	Raw suger	311801	0611
4.	Refined sugar	311804	0612
5.	Tea blended		074
6.	Sea salt		2763
7.	Beer	313304	1123
8.	Beverages	313404	11002
9.	Cigarettes	314007	1222
10.	Cotton yarn, pure and mixed	321109	6513
11.	Cotton fabrics	321128	6521
12.	Wollen textiles (Fabrics)	321134	6532
13.	Wollen textiles (Carpets)	321401	6575
			6576
14.	Other printing and writing papers	341122	6412
15.	Kraft paper and kraft paperbord	341125	6413
16.	Chlorine gas	351145	51321
17.	Sulphuric acid	351147	51333
18.	Caustic soda	351159	51362
19.	Nitrogenous fertilizers	351201	5611
20.	Paints and varnishes	352101A	
		352104A	5333
		352107A	
21.	Toilet soap	352301	5541
22.	Flake and detergents	352304	5542
			5543
23.	Motor gasolene	353007A	3321 (Part of)
24.	Kerosene	353013A	3322 (Part of)
25.	Distillate fuel oils	353019A	3323 (Part of)
26.	Residual fuel oils	353022A	3324
27.	Lubricating oils	353025A	3325

28.	Rubber tyres and tubes	355104 355107 355110	6291
29.	Cement	369204	6612
30.	Mild steel products	3710	673 674 675 676 677 678 679
31.	Sewing machines	382910	7173
32.	Electric motors	383107(A B) 383110(A B)	7222
33.	Transformers	333113A	7221
34.	Television	383201	7241
35.	Gramphon record	383240	8912
36.	Electric bulbs	383916 383919A	7292
37.	Passenger motor vehicles	384307 384310	7321
38.	Buses	384312 384313	7322
39.	Trucks	384315 384316	7323
40.	Tractors	384319	7125
41.	Motor cycle/Scooters/Rickshaws	384401	73291
42.	Bicycles	384404	73311

Data Source:

2. UN, Yearbook of Industrial Statistics, Vol. II. Commodity Production Statistics.
4. AIDXT(International Trade Data Base compiled by IDE based on the magnetic tapes, of international trade statistics supplied by UN and OECD)
11. Federal Bureau of Statistics, Pakistan Statistical Yearbook.
12. Federal Bureau of Statistics, Monthly Foreign Trade of Pakistan, July.







Country: Pakistan

Commodity: Refined sugar

No. 4

ISIC Code	311804								Note:
NSIC Code									
SITC Code	0612								
NSIC Code	0612								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	609574		-	-			-	-	
1971	518961		-	-			-	-	
1972	375070		-	-			3	50246	
1973	429001		-	52061			-	14151	
1974	608003		-	336			-	96	
1975	502334		-	-			-	6	
1976	630491		-	201			-	57	
1977	736303		190	-			0	-	
1978	860767		-	836			-	220	
1979	607291		-	39898			-	17302	
1980	585784		-	151264			-	89182	
1981	851262		44	74			62	48	
1982	1301269		14	1623			3	552	
1983	1126991		15719	2053			3057	702	
1984	1145085		-	-			-	-	

Country: Pakistan

Commodity: Tea blended

No. 5

ISIC Code								Note:
NSIC Code								
SITC Code	074							
NSIC Code	07410							
	Quantity				Value			
Source	11		4	4			4	4
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	TH		TH	TH			1000\$	1000\$
1970	-		40	-			11	518
1971	-		-	-			-	14099
1972	-		0	-			1	32914
1973	-		3	36996			3	32616
1974	-		-	44722			13	50080
1975	-		-	-			-	67179
1976	23723		226	80762			288	62282
1977	31979		76	60756			323	119391
1978	33138		146	57560			498	98331
1979	38114		136	66012			404	106580
1980	42550		80	64051			395	104458
1981	46171		9334	76471			10501	121585
1982	50450		1894	72463			2300	111954
1983	49750		11076	86056			439	151776
1984	55273		-	-			-	-

Country: Pakistan

Commodity: Soda salt

No. 6

ISIC Code									Note:
NSIC Code									
SITC Code	2763								
NSIC Code	27830								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	252000		92016	-			460	3	
1971	218500		68974	-			374	2	
1972	239800		35375	-			346	1	
1973	160500		7456	-			108	1	
1974	110700		3410	-			116	2	
1975	139100		5290	9			192	1	
1976	151400		6566	4			102	12	
1977	137700		8494	18			218	14	
1978	223700		15459	18			1000	3	
1979	163500		11027	-			1011	-	
1980	197100		24851	-			1590	2	
1981	180300		6679	-			558	10	
1982	224000		4629	2040			209	16	
1983	163200		10655	60			472	13	
1984	204700		-	-			-	-	





Country: Pakistan

Commodity: Beverages

No. 8

ISIC Code	313404								Note:  a/ Bottles b/ Cubic metres
NSIC Code									
SITC Code	11002								
NSIC Code	111								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000BTL a/		CHN b/	CHN b/			1000\$	1000\$	
1970	158848		-	-			40	553	
1971	149681		-	-			62	548	
1972	193161		-	-			66	288	
1973	15004		-	154			82	234	
1974	180468		1169	1173			285	397	
1975	255708		-	-			2	339	
1976	316332		-	66			-	438	
1977	346536		26	81			15	406	
1978	502712		2594	45			491	205	
1979	640272		-	90			-	417	
1980	576395		5	142			50	618	
1981	729447		352	89			62	404	
1982	833330		-	107			-	330	
1983	730097		-	150			-	437	
1984	161203		-	-			-	-	

Country: Pakistan

Commodity: Cigarettes

No. 9

ISIC Code	314007								Note:
NSIC Code									
SITC Code	1222								
KSTC Code	12220								
Source	Quantity				Value				
	11	4	4		4	4			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	1000NOH		1000NOH	1000NOH			1000\$	1000\$	
1970	22369000		-	-			-	-	
1971	24166000		-	-			-	-	
1972	21772000		-	-			115	54	
1973	27623000		-	6621			197	50	
1974	27477000		188893	6743			617	64	
1975	26804000		-	-			1140	52	
1976	27154000		542	0.05			1845	57	
1977	28379000		502	0.03			2448	33	
1978	31309000		-	-			3727	20	
1979	32536000		-	-			4510	60	
1980	34647000		-	-			4315	43	
1981	35891000		-	-			4035	39	
1982	38132000		524778	3566			7900	63	
1983	38199000		396272	5776			8498	88	
1984	40096000		-	-			-	-	



Country: Pakistan

Commodity: Cotton fabrics

No. 11

ISIC Code	321128								Note: a/ Square metres
NSIC Code									
SITC Code	6521								
NSTC Code	6521								
	Quantity				Value				
Source	11		4				4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SHM <sup>a/</sup>		1000SHM <sup>a/</sup>				1000\$	1000\$	
1970	606545		-	-			-	-	
1971	658295		-	-			-	-	
1972	628180		-	-			50486	13	
1973	588606		319058	-			89834	-	
1974	592172		189336	-			63287	42	
1975	555855		297514	-			76088	131	
1976	520338		354603	-			102203	27	
1977	408287		302624	-			112726	4	
1978	391347		412355	-			142204	3	
1979	339352		392189	-			157470	21	
1980	342335		345892	-			143144	1	
1981	307882		340340	-			141578	159	
1982	325021		326546	-			120550	20	
1983	335537		-	-			157071	20	
1984	296596		-	-			-	-	

Country: Pakistan

Commodity: Woollen textiles (Fabrics)

No. 12

ISIC Code	321134							Note:  a/ Square metres
NSIC Code								
SITC Code	6532							
NSIC Code								
	Quantity				Value			
Source	11		4	4			4	4
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	1000SHM <sup>a/</sup>		1000SHM <sup>a/</sup>				1000\$	1000\$
1970	-		-	-			12	31
1971	-		-	-			4	19
1972	-		-	-			28	6
1973	-		-	-			-	15
1974	1135		-	-			3	14
1975	1091		-	-			18	22
1976	920		-	-			136	12
1977	844		-	-			7	5
1978	780		8	-			75	3
1979	1691		0	-			20	23
1980	1435		18	-			58	36
1981	1733		91	-			159	40
1982	1633		2	-			116	1
1983	1190		-	-			150	12
1984	1398		-	-			-	-

ISIC Code		321401							Note:  a/ Square metres
NSIC Code									
SITC Code		6575-6576							
NSTC Code		65921							
Source	Quantity				Value				
	11	4	4	4	11	4	4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	1000SMM <sup>a/</sup>		1000SMM <sup>a/</sup>				1000\$	1000\$	
1970	-		-	-			12000	146	
1971	-		-	-			15237	190	
1972	-		987	-			25403	110	
1973	-		-	-			30470	125	
1974	473		-	-			49823	192	
1975	444		1442	-			54767	564	
1976	554		7481	-			87980	341	
1977	485		1837	-			103471	617	
1978	545		2187	-			143095	792	
1979	587		2456	-			105840	1787	
1980	669		2795	-			184265	3098	
1981	615		2319	-			201041	4445	
1982	403		1822	-			136600	2576	
1983	371		2423	-			160767	1715	
1984	501		-	-			-	-	

Country: Pakistan

Commodity: Other printing and writing papers

No. 14

ISIC Code		341122								Note:
NSIC Code										
SITC Code		6412								
NSTC Code										
		Quantity				Value				
Source	11	4	4			4	4			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
Unit	TM		TM	TM			1000\$	1000\$		
1970	-		-	-			-	-		
1971	-		-	-			-	-		
1972	-		-	-			14	073		
1973	-		-	8598			24	3239		
1974	21379		165	28205			84	15029		
1975	19351		-	-			-	14472		
1976	18539		1	8326			3	5702		
1977	18877		402	15551			283	9382		
1978	20692		196	20291			08	10472		
1979	25411		42	23121			30	13877		
1980	24045		38	21721			48	15173		
1981	28226		5	28839			3	22970		
1982	33122		15	27760			4	23557		
1983	32975		1	42543			8	27782		
1984	30225		-	-			-	-		



Country: Pakistan

Commodity: Kraft paper and kraft paperboard

No. 15

ISIC Code	341125								Note:
NSIC Code									
SITC Code	6413								
NSIC Code	6413								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000\$	1000\$	
1970	-		-	-			-	-	
1971	-		-	-			-	-	
1972	-		-	-			18	2490	
1973	-		13	12975			2	5220	
1974	3656		-	10171			-	4713	
1975	3749		-	-			8	4421	
1976	2692		281	14119			600	8803	
1977	4064		128	20258			44	7424	
1978	1568		4903	16711			873	6578	
1979	10062		4653	20634			845	10237	
1980	9856		1313	24696			970	14804	
1981	12120		1330	23571			718	15713	
1982	11867		2071	23514			1276	14285	
1983	14579		6052	30691			3265	14656	
1984	13427		-	-			-	-	

Country: PakistanCommodity: Chlorine gas

No. 16

ISIC Code	351145								Note: a/ Rupees
NSIC Code									
SITC Code	51321								
NSTC Code	52213								
	Quantity				Value				
Source	11		4	4			12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000RP <sup>a/</sup>	1000RP <sup>a/</sup>	
1970	2305		-	-			-	-	
1971	4582		-	-			-	-	
1972	5460		-	-			-	-	
1973	6292		-	-			-	245	
1974	6374		514	-			-	730	
1975	4888		-	-			-	450	
1976	5539		-	-			-	124	
1977	4198		-	-			-	220	
1978	5696		-	-			0	201	
1979	7876		-	-			122	844	
1980	8646		-	-			-	1504	
1981	8329		-	-			-	2059	
1982	7904		111	16			27	1334	
1983	8051		-	13			187	-	
1984	8454		-	-			-	-	

Country: PakistanCommodity: Sulphuric acid

No. 17

ISIC Code		351147							Note: a/ Rupees
NSIC Code									
SITC Code		51333							
NSTC Code		52222							
Source		Quantity				Value			
		11	4	4		12	12		
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import
		TM		TM	TM			1000RPa	1000RPa
1970	31539			-	-			-	-
1971	33609			-	-			-	-
1972	34990			-	-			-	-
1973	42462			12	12			-	148
1974	34005			48	16			37	132
1975	37030			-	-			50	551
1976	46215			-	-			188	1180
1977	45163			-	-			140	1313
1978	56535			-	-			206	74
1979	64613			-	-			1237	138
1980	66613			-	-			084	224
1981	71247			-	-			80	388
1982	71826			56	28			202	350
1983	71059			74	30			81	358
1984	80748			-	-			-	-

Country: Pakistan

Commodity: Caustic soda

No. 18

ISIC Code	351159								Note:  a/ Rupees
NSIC Code									
SITC Code	513.62								
NSTC Code	52252								
	Quantity				Value				
Source	11		4	4			12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000RP a/	1000RP a/	
1970	28438		-	-			-	-	
1971	31161		-	-			-	-	
1972	34330		-	-			-	-	
1973	35381		3	12816			-	24488	
1974	37496		2333	333			-	2202	
1975	36786		-	-			-	9940	
1976	38329		-	-			-	88296	
1977	24886		-	-			-	12267	
1978	34981		-	-			4	3061	
1979	35947		-	-			-	5058	
1980	39893		-	-			0	9048	
1981	38469		-	-			6	82273	
1982	40548		3	22680			2	81914	
1983	41065		4	28518			5	24821	
1984	39740		-	-			-	-	

Country: Pakistan

Commodity: Nitrogenous Fertilizers

No. 19

ISIC Code	351201								Note:
NSIC Code									
SITC Code	5611								
NSIC Code	562								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	348353		-	-			-	51203	
1971	349415		-	-			-	13533	
1972	537543		-	-			1520	8170	
1973	656959		-	368058			-	38285	
1974	729355		-	354640			-	69573	
1975	753436		-	-			-	39058	
1976	765344		-	171641			-	27739	
1977	758111		-	339643			-	51359	
1978	737627		345	611697			8	96678	
1979	839955		-	865481			-	174860	
1980	1075609		-	945215			-	249281	
1981	1503428		2971	368144			781	104876	
1982	1849384		-	12254			-	3942	
1983	2470733		95583	42329			15301	10431	
1984	2675689		-	-			-	-	

Country: Pakistan

Commodity: Paints and varnishes

No. 20

Source	Quantity				Value			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	TM		TM	TM			1000\$	1000\$
1970	3515		-	-			1096	1795
1971	3817		-	-			577	1204
1972	4140		-	-			035	887
1973	4572		925	1652			450	1290
1974	3709		780	1287			705	1510
1975	4468		-	-			048	1818
1976	4017		568	1936			780	1876
1977	4370		757	2735			828	2102
1978	5946		757	2208			034	2048
1979	5554		518	1511			775	2894
1980	6646		364	1843			784	3708
1981	9652		362	1970			004	4077
1982	12013		537	1879			082	4004
1983	10051		398	2063			485	4535
1984	8513		-	-			-	-

Note:

Country: Pakistan

Commodity: Toilet soap

No. 2i

ISIC Code	352301								Note:
NSIC Code									
SITC Code	5541								
NSTC Code	5541								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	-		2015	-			1095	155	
1971	-		1047	-			044	103	
1972	-		1045	-			354	154	
1973	-		1297	-			331	63	
1974	13089		3140	-			1337	260	
1975	12776		2801	-			1282	42	
1976	13664		1168	46			618	31	
1977	16537		739	8			357	43	
1978	20418		1291	18			831	36	
1979	21100		1912	14			1371	17	
1980	23288		2914	9			1870	17	
1981	24273		2031	19			1457	39	
1982	26968		843	1			524	5	
1983	28895		347	0			245	2	
1984	26208		-	-			-	-	

Country: Pakistan

Commodity: Flakes and detergents

No. 22

ISIC Code	352304								Note:
NSIC Code									
SITC Code	5542-5543								
NSTC Code	5542								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	-		-	-			137	1281	
1971	-		55	-			102	1104	
1972	-		4	-			84	804	
1973	-		2	1004			140	1239	
1974	4982		436	1478			400	1911	
1975	6216		-	-			424	1021	
1976	6277		330	930			419	1700	
1977	6665		704	2196			588	2257	
1978	9325		534	2756			621	2822	
1979	7300		596	2931			797	3395	
1980	8499		824	2867			1802	3798	
1981	16318		1163	2988			1702	4585	
1982	10679		489	2499			731	3750	
1983	10641		357	3054			428	4800	
1984	12484		-	-			-	-	













Country: Pakistan

Commodity: Rubber tyres and tubes

No. 28

ISIC Code	355104 355107 355110							Note:
NSIC Code								
SITC Code	6291							
NSTC Code								
Source	Quantity				Value			
Unit	11 Production NOM	4 Shipment	4 Export NOM	4 Import NOM	Production	Shipment	4 Export 1000\$	4 Import 1000\$
1970	6950514		740812	-			752	7027
1971	6784054		186465	-			185	7876
1972	8615132		108632	-			63	4547
1973	6155000		-	286184			41	5543
1974	7540000		-	261277			90	5464
1975	7647000		-	-			0	5362
1976	7708000		412	551819			4	14000
1977	7899000		1817	850274			12	16299
1978	9036000		17853	1102640			0	20180
1979	8265000		910	2121160			80	27208
1980	9489000		1844	1281150			50	36867
1981	9913000		3748	1636910			330	38681
1982	10082000		5106	1498870			430	36732
1983	9561000		688	1796200			00	20288
1984	1015000		-	-			-	-

ISIC Code	369204								Note:
NSIC Code									
SITC Code	6612								
NSTC Code	66120								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM		1000TM	1000TM			1000\$	1000\$	
1970	2656		-	-			2625	2558	
1971	2702		-	-			3094	944	
1972	2605		-	-			7040	4	
1973	2876		740538	-			11515	-	
1974	3145		777398	-			23512	1	
1975	3320		-	-			18595	29	
1976	3196		49304	98			2208	15	
1977	3071		150	42736			9	1801	
1978	3224		-	175697			-	10468	
	3023		49	685849			3	46306	
80	3343		-	436292			-	34686	
1981	3538		-	152707			-	86837	
1982	3657		-	846374			-	57499	
1983	3938		-	874421			-	47138	
1984	4502		-	-			-	-	

Country: PakistanCommodity: Mild steel products

No. 30

ISIC Code	3710								Note:
NSIC Code									
SITC Code	673-679								
NSTC Code									
Source	Quantity				Value				
	11	4	4		4	4			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM		TM	TM			1000\$	1000\$	
1970	180002		-	-			25	71692	
1971	196094		-	-			19	60794	
1972	165533		-	-			30	40415	
1973	183881		3678	209058			804	58477	
1974	218119		1818	319432			568	100051	
1975	224018		-	-			402	148960	
1976	230726		110	353763			133	116377	
1977	269649		186	451270			138	149996	
1978	315348		-	347573			-	121648	
1979	362360		715	523627			167	214870	
1980	420918		1042	429515			423	212222	
1981	494681		26	657854			13	223261	
1982	550769		370	517961			281	204944	
1983	636661		991	648158			519	186564	
1984	654205		-	-			-	-	



Country: Pakistan

Commodity: Sewing machines

No. 31

ISIC Code	382910								Note:
NSIC Code									
SITC Code	7173								
NSTC Code	72431								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM						1000\$	1000\$	
1970	88301		-	-			423	1296	
1971	84622		-	-			312	617	
1972	58187		-	-			377	911	
1973	66385		-	-			460	1704	
1974	75541		-	-			438	1675	
1975	55461		-	-			374	1397	
1976	63984		-	-			227	1461	
1977	58400		-	-			308	3137	
1978	61809		-	-			234	2044	
1979	62258		-	-			535	2259	
1980	67343		-	-			460	2530	
1981	65086		-	-			133	3840	
1982	67246		-	-			172	2093	
1983	63956		-	-			132	4814	
1984	64878		-	-			-	-	

Country: Pakistan

Commodity: Electric motors

No. 32

ISIC Code	383107 (A-B) 383110 (A-B)								Note:
NSIC Code									
SITC Code	7222								
NSIC Code	77129								
Source	Quantity				Value				
	11		4	4			4	4	
Unit	Production NOM	Shipment	Export NOM	Import NOM	Production	Shipment	Export 1000\$	Import 1000\$	
1970	-		-	-			101	11615	
1971	-		-	-			72	8994	
1972	-		-	-			18	4033	
1973	-		-	-			89	5659	
1974	-		-	-			311	10897	
1975	-		-	-			822	12488	
1976	20535		-	-			129	9710	
1977	19989		-	-			316	16157	
1978	22372		-	-			1099	20247	
1979	21126		-	-			1471	23935	
1980	25266		-	-			191	30778	
1981	27629		-	-			1042	31561	
1982	25047		-	-			321	42980	
1983	28071		-	-			362	45190	
1984	27560		-	-			-	-	

Country: Pakistan

Commodity: Transformers

No. 33

ISIC Code	383113A								Note:
NSIC Code									
SITC Code	7221								
NSTC Code	7711								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000\$	1000\$	
1970	-		-	-			325	12721	
1971	-		-	-			372	16291	
1972	-		466	-			350	9581	
1973	-		-	-			418418	11135	
1974	-		-	-			721	19076	
1975	-		-	-			1443	51832	
1976	-		-	-			927	35904	
1977	-		-	-			376	37383	
1978	11646		-	-			2530	32510	
1979	13871		-	-			713	47977	
1980	15931		-	-			3102	30960	
1981	15151		-	-			1741	31133	
1982	19927		-	-			3203	47860	
1983	21121		-	-			1385	47601	
1984	14987		-	-			-	-	

Country: Pakistan

Commodity: Television

No. 34

ISIC Code	383201								Note:
NSIC Code									
SITC Code	7241								
NSTC Code	761								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000\$	1000\$	
1970	-		-	-			68	1305	
1971	-		-	-			17	351	
1972	-		-	-			11	275	
1973	-		-	-			4	2568	
1974	-		-	-			105	9742	
1975	-		-	-			65	8767	
1976	75357		-	-			211	8052	
1977	96103		-	-			67	11935	
1978	97929		-	-			25	15014	
1979	85759		-	-			130	10686	
1980	74427		-	-			311	10934	
1981	86909		-	-			42	7140	
1982	107855		-	-			-	649	
1983	110523		-	-			-	306	
1984	105446		-	-			-	-	

Country: Pakistan

Commodity: Gramophon record

No. 35

ISIC Code	383240								Note:
NSIC Code									
SITC Code	8912								
NSTC Code	8983								
Source	Quantity				Value				
	11		4	4			4	4	
Unit	Production NOH	Shipment	Export NOH	Import NOH	Production	Shipment	Export 1000\$	Import 1000\$	
1970	787996		-	-			20	208	
1971	1020139		-	-			25	91	
1972	689046		-	-			76	68	
1973	998881		-	-			101	110	
1974	1330266		183709	425119			143	545	
1975	1516148		-	-			175	1121	
1976	1081874		-	-			315	1538	
1977	772611		-	-			633	2769	
1978	991149		-	-			691	4262	
1979	549903		-	-			447	5159	
1980	-		-	-			304	4353	
1981	-		-	-			218	4840	
1982	-		-	-			142	3692	
1983	-		-	-			291	4344	
1984	-		-	-			-	-	

Country: Pakistan

Commodity: Electric bulbs

Note:

ISIC Code	383916	383919A						
NSIC Code								
SITC Code	7292							
NSTC Code	77821							
Source	Quantity				Value			
	11	4	4		4	4		
Unit	Production	Shipment	Export NOH	Import NOH	Production	Shipment	Export 1000\$	Import 1000\$
1970	10652000		-	-			6	912
1971	10504000		-	-			11	875
1972	7936000		-	-			7	580
1973	10721000		144	14521400			6	577
1974	10920000		-	14726600			13	1040
1975	15031000		-	-			-	1728
1976	17431000		-	-			8	1716
1977	14927000		-	-			-	2996
1978	17527000		-	-			7	2847
1979	20641000		-	-			-	5725
1980	20251000		-	-			54	4259
1981	34187000		-	-			11	7862
1982	41443000		-	-			9	6011
1983	23501000		-	-			22	4477
1984	36775000		-	-			-	-

Country: Pakistan

Commodity: Passenger motor vehicles

No. 37

ISIC Code	384307 384310								Note:
NSIC Code									
SITC Code	7321								
NSIC Code	78100								
Source	Quantity				Value				
	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH		NOH	NOH			1000\$	1000\$	
1970	-		-	-			411	17509	
1971	-			-			144	8288	
1972	-		-	-			83	2630	
1973	-		-	2018			240	4334	
1974	-		85	10620			205	20500	
1975	-		-	-			501	20876	
1976	4478		141	12729			636	20266	
1977	4119		1646	17470			763	31077	
1978	3014		956	30051			914	43687	
1979	9566		469	12455			1513	31303	
1980	7602		974	19393			1197	67705	
1981	10073		127	145623			919	58030	
1982	12681		143	21074			937	71898	
1983	12959		74	46484			671	81479	
1984	13924		-	-			-	-	

Country: Pakistan

Commodity: Brass

No. 38

ISIC Code	384312		384313						Note:
	NSIC Code								
SITC Code	7322								
NSTC Code	78310		7831001						
Source	Quantity				Value				
	11		4	4			4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	NOH		NOH	NOH			1000\$	1000\$	
1970	-		-	-			50	1652	
1971	-		-	-			0	1349	
1972	-		-	-			-	438	
1973	-		-	289			-	1279	
1974	-		1	685			3	2106	
1975	-		-	-			6	723	
1976	1983		-	108			-	468	
1977	1037		-	283			-	927	
1978	520		-	38			-	283	
1979	1176		-	17			-	137	
1980	1176		-	45			-	331	
1981	513		2	134			0	1104	
1982	285		16	234			184	2213	
1983	765		6	2186			32	8259	
1984	60		-	-			-	-	



Country: Pakistan

Commodity: Trucks

No. 39

ISIC Code	384315 384316								Note:
NSIC Code									
SITC Code	7323								
NSTC Code	7821001								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000\$	1000\$	
1970	-		-	-			-	-	
1971	-		-	-			-	-	
1972	-		-	-			8	429	
1973	-		7	622			18	2358	
1974	-		1	241			13	1212	
1975	-		-	-			327	2402	
1976	4179		-	1725			-	3170	
1977	3161		21	8027			401	15724	
1978	3148		2	2377			3	8947	
1979	4183		2	17624			23	35078	
1980	5149		66	10650			272	38564	
1981	2899		8	17818			53	55487	
1982	3075		56	25246			691	81612	
1983	3644		71	33208			883	62502	
1984	2883		-	-			-	-	

Country: Pakistan

Commodity: Factors

No. 40

ISIC Code	384319								Note:
NSIC Code									
SITC Code	7125								
NSTC Code	722								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000\$	1000\$	
1970	-		-	-			-	-	
1971	-		-	-			-	-	
1972	-		-	-			-	-	
1973	-		-	-			-	-	
1974	-		-	-			-	-	
1975	-		-	-			-	-	
1976	5766		-	-			1585	57104	
1977	6885		-	-			72	92145	
1978	8237		-	-			71	90882	
1979	5260		-	-			59	140560	
1980	6545		-	-			30	108661	
1981	8804		-	-			61	90055	
1982	12367		-	-			40	150605	
1983	18864		-	-			-	125306	
1984	19836		-	-			-	-	

Country: Pakistan

Commodity: Motor cycle/Scooters/Rickshaws

No. 41

ISIC Code	384401								Note: a/ Rupees
NSIC Code									
SITC Code	73291								
NSTC Code	78510								
	Quantity				Value				
Source	11	4	4			12	12		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000RPa	1000RPa	
1970	-		-	-			-	-	
1971	-		-	-			-	-	
1972	-		-	-			-	-	
1973	-		-	-			-	-	
1974	-		-	-			-	36857	
1975	-		-	-			-	56023	
1976	23063		-	-			17	88730	
1977	23729		-	-			24	132892	
1978	37408		-	-			54	160833	
1979	51798		-	-			45	240795	
1980	65953		-	-			15	322407	
1981	53174		-	-			-	350570	
1982	24903		831	86077			-	388145	
1983	34452		12	78089			71	338528	
1984	54057						-	-	

Country: Pakistan

Commodity: Bicycles

No. 42

ISIC Code	384404								Note: a/ Rupees
NSIC Code									
SITC Code	73311								
NSTC Code	7852001								
	Quantity				Value				
Source	11		4	4			12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH		NOH	NOH			1000Rp <sup>a/</sup>	1000Rp <sup>a/</sup>	
1970	161289		-	-			-	-	
1971	159659		-	-			-	-	
1972	122770		-	-			-	-	
1973	211655		-	8			103	5	
1974	178528		122	-			228	39	
1975	210365		-	-			35	565	
1976	217817		-	-			2	92	
1977	211484		-	-			-	6	
1978	244675		-	-			-	7	
1979	280094		-	-			-	47	
1980	279375		-	-			577	160	
1981	327291		-	-			1	35	
1982	399094		6210	16			96	1	
1983	448795		24056	218			16140	70	
1984	448218						-	-	

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UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

CONFIDENTIAL

INTERNATIONAL COMPARISON OF INDUSTRIAL STRUCTURE  
AND  
INDUSTRIAL DEVELOPMENT IN ASIAN SELECTED COUNTRIES

VOLUME II  
STATISTICAL REPORT

BURMA  
HONG KONG  
INDIA  
INDONESIA

Project No: US/RAS/83/261

July 1986

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This report has not been cleared with the United Nations Industrial Development Organization which does not, therefore, necessarily share the views presented.

PART V

BURMA

- I. General Industrial Statistics
- II. Commodity Balance Sheets

I. General Industrial Statistics

1. Explanatory Notes

2. Statistical Tables

2.1 Gross Output

2.2 Index Number of Industrial Production (1975=100)

## Explanatory Notes

### I. Classification:

The classification of industrial activity set out in the tables follows the three-digit code of the present version of ISIC.

### II. Source of Data:

The statistical data presented in the following tables derived from UNIDO, General Industrial Data Base.

### III. Reference Period:

The reference period is the calendar year from 1 January to 31 December.



COUNTRY: BURMA

Gross Output

Unit: 1000Kyat

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNI NA1	0	0	3284991	3684990	6606982	7117981	7539940							
313	Beverages														
314	Tobacco	0	0	332999	300999	379997	460999	450999							
321	Textiles	0	0	552999	660998	482999	813998	1068997							
322	Wearing apparel														
323	Leather and products	0	0	7000	8000	7000	12000	13000							
324	Footwear	0	0	33000	33000	36000	48000	54000							
331	Wood products	0	0	71000	72000	77000	79999	84000							

COUNTRY: BURMA

Gross Output

Unit: 1000Kyat

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	0	0	56000	54000	57000	58000	59000							
341	Paper and products	0	0	13000	15000	32000	54000	67000							
342	Printing, publishing	0	0	47000	69000	82000	166000	159998							
351	Industrial chemicals	0	0	34000	40000	60000	73000	86000							
352	Other chemical products	0	0	67000	51000	54000	103000	116000							
353	Petroleum refineries	0	0	316998	312998	647998	612998	643998							
354	Petroleum, coal products														
355	Rubber products	0	0	6000	6000	6000	12000	14000							

COUNTRY: BURMA

## Gross Output

Unit: 1000Kyat

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	0	0	11000	10000	12000	42000	49000							
361	Pottery, china etc.	0	0	9000	8000	10000	18000	26000							
362	Glass and products	0	0	10000	9000	13000	14000	18000							
369	Non-metal products n.e.c.	0	0	6000	11000	8000	15000	18000							
371	Iron and steel	0	0	68000	63000	79999	162000	228999							
372	Non-ferrous metals														
381	Metal products	0	0	18000	19000	15000	42000	69999							
382	Machinery n.e.c.	0	0	22000	24000	33000	102000	108000							



COUNTRY: BURMA

Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	89	89	80	93	93	100	101	103	114	116	116	117	0	0
313	Beverages	105	95	109	97	90	100	103	148	165	178	0	0	0	0
314	Tobacco	86	86	83	86	77	100	124	124	139	138	155	159	0	0
321	Textiles	79	80	82	97	55	100	177	182	186	174	199	201	0	0
322	Wearing apparel	62	44	81	74	58	100	92	77	60	0	0	0	0	0
323	Leather and products	103	96	83	87	104	100	91	0	0	0	0	0	0	0
324	Footwear	103	96	83	87	104	100	91	0	0	0	0	0	0	0
331	Wood products	158	155	165	150	115	100	82	102	123	138	139	141	0	0



COUNTRY: BURMA

Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	100	100	100	100	100	100	100	100	100	100	100	100	0	0
361	Pottery, china etc.	85	107	117	105	94	100	127	146	138	213	210	173	0	0
362	Glass and products														
369	Non-metal products n.e.c.														
371	Iron and steel	100	106	100	113	81	100	138	138	100	0	0	0	0	0
372	Non-ferrous metals	116	142	149	129	82	100	117	165	181	214	203	220	0	0
381	Metal products	119	125	143	140	75	100	125	0	0	0	0	0	0	0
382	Machinery n.e.c.	112	110	104	137	102	100	180	160	160	186	142	170	0	0

COUNTRY: BURMA

Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	68	83	74	64	67	100	75	144	144	106	94	131	0	0
384	Transport equipment	112	110	99	107	94	100	92	79	140	99	108	154	0	0
385	Professional goods	100	100	100	100	100	100	100	100	100	100	100	100	0	0
390	Other industries	95	95	70	41	83	100	105	114	85	21	15	9	0	0



## II. Commodity Balance Sheets

### 1. Explanatory Notes

### 2. Statistical Tables

- 2. 1 Flour, wheat
- 2. 2 Sugar, raw
- 2. 3 Sugar, refined
- 2. 4 Salt
- 2. 5 Cigarettes
- 2. 6 Cotton yarn
- 2. 7 Cotton woven fabrics
- 2. 8 Gunny bag
- 2. 9 Nitrogenous fertilizers (urea)
- 2.10 Soap
- 2.11 Matches
- 2.12 Motor spirit
- 2.13 Cement
- 2.14 Aluminium ware
- 2.15 Water pump
- 2.16 Tractor
- 2.17 Radio receivers
- 2.18 Dry-cell battery
- 2.19 Bicycles
- 2.20 Passenger bus

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).

Special notes on tables 1 - 20

- 1) Export and import values are expressed in terms of the local currency [1000Kyat(KYT)] from 1976 and on, though they are expressed in 1000 US\$ before the year.
  
- 2) Figures for both quantities and values of exports and imports refer to a fiscal year, which begins on April 1 and ends on March 31, from 1978 and on, though figures for these data refer to a calendar year before the year.

QUANTITY UNIT CODE

Appendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL*	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG*	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL*	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS*	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX*	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN*	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT*	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS				
FLN	FLASKS	SMM	SQUARE METRES		
FTN	FEET	SMN	SQUARE METRES		
GIN	IMPERIAL GALLONS	SPM	NUMBER OF SPINDLES		
GPN	PROOF GALLONS				
GRN	GROSS	STN	SHORT TONS		

Note: The codes put on "\*" are prepared by IDE.

CUURENCY UNIT CODE

Appendix II

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHLIPPINES
S\$	SD	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Source

Source No.

1. UN, Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics.
2. UN, Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics.
3. ESCAP, Statistical Yearbook.
4. AIDXT(International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base.
7. UNIDO, Production Index Data Base.
8. UN, Yearbook of International Trade Statistics.
9. UN, Statistical Yearbook.
- 10.
11. Report to the PYITHU HLUITAW on the Financial, Economic and Social Conditions of the Socialist Republic of the Union of Burma.
12. Statistical Abstract.
13. Bulletin of Export Trade.
14. Bulletin of Import Trade.

Country: Burma

Commodity: Flour, Wheat

ISIC Code	311601								Note:
NSIC Code									
SITC Code	046.01								
NSIC Code	0460100								
	Quantity				Value				
Source	12		4,13	4,14			4,13	4,14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000LBN		TM	TM			1000\$	1000\$	
1970	1142		-	24508			-	3100.0	
1971	886		16153	30465			110	3600.0	
1972	873		24826	12000			170	1590.0	
1973	901		4015	1546			31	554.0	
1974	937		2011	12937			21	3728.0	
1975	894		-	6399			-	1226.0	
1976	846		-	0			-	0.5	
1977	938		-	3914			-	7157.1	
1978	958		-	3875			-	8	
1979	-		-	21655			-	.1	
1980	-		-	15096			-	29.0	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Sugar, raw

ISIC Code	311801								Note:
NSIC Code									
SITC Code	081.1								
NSTC Code	0811002-3								
	Quantity				Value				
Source	3								
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TH								
1970	90		-	-			-	-	
1971	95		-	-			-	-	
1972	100		-	-			-	-	
1973	100		-	-			-	-	
1974	80		-	-			-	-	
1975	82		-	-			-	-	
1976	80		-	-			-	-	
1977	85		-	-			-	-	
1978	65		-	-			-	-	
1979	60		-	-			-	-	
1980	65		-	-			-	-	
1981	65		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: Burma

Commodity: Sugar, refined

ISIC Code	311894								Note:
HSIC Code									
SITC Code	061.2								
NSTC Code	0612001-3								
	Quantity				Value				
Source	3			4.14				4.14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1060TH			TH			1000\$	1000\$	
1970	54		-	188			-	27.0	
1971	50		-	209			-	36.0	
1972	61		-	1			-	0	
1973	69		-	5			-	1.0	
1974	31		-	83			-	66.0	
1975	10		-	9			-	3.0	
1976	19		-	11			-	12.4	
1977	31		-	138			-	362.8	
1978	38		-	91			-	209.8	
1979	36		-	6			-	38.4	
1980	41		-	437			-	461.3	
1981	46		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Salt

ISIC Code	3121*								Note:
NSIC Code									
SITC Code	276.3								
NSIC Code	2763001-3								
	Quantity				Value				
Source	11		4.13	4.14			4.13	4.14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM		TM	TM			1000\$	1000\$	
1970	182		-	3			-	0	
1971	164		16153	46			110.0	2.0	
1972	163		24826	188			170.0	15.0	
1973	179		4015	40			31.0	2.0	
1974	120		2011	408			21.0	11.0	
1975	100		-	37			-	1.0	
1976	127		-	74			-	34.4	
1977	196		0	500			0.3	94.1	
1978	196		-	80			-	77.8	
1979	239		-	254			-	157.9	
1980	240		-	25			-	2.4	
1981	243		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: BurmaCommodity: Cigarettes

ISIC Code 314007									Note: unit of quantity (trade) changes to LBN from 1976
NSIC Code									
SITC Code 122.2									
NSTC Code 1222000									
Source	Quantity				Value				
	12	4,13	4,14		4,13	4,14			
Production	Shipment	Export	Import	Production	Shipment	Export	Import		
Unit	1000000		TM	TM		1000\$	1000\$		
1970	1513000	-	-	0		-	1.0		
1971	1515000	-	-	1		-	4.0		
1972	1450000	-	-	1		-	8.0		
1973	1512000	0	-	-		1	-		
1974	1353000	-	-	-		-	-		
1975	1716000	-	-	0		-	1.0		
1976	2181000	-	-	136		-	2.6		
1977	2185000	-	-	240		-	9.0		
1978	2451000	-	-	79		-	1.6		
1979	-	-	-	145		-	3.9		
1980	-	-	-	1332		-	30.0		
1981	-	-	-	-		-	-		
1982	-	-	-	-		-	-		
1983	-	-	-	-		-	-		
1984	-	-	-	-		-	-		

Country: BurmaCommodity: Cotton yarn

ISIC Code	321113								Note: unit of quantity (trade) changes to LBN from 1978
NSIC Code									
SITC Code	651.3	651.41							
NSIC Code	6513	65141-2							
	Quantity				Value				
Source	11	4,14			4,14				
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000LBN			TM				1000\$	
1970	13525		-	3372			-	9507	
1971	13653		-	2339			-	7389	
1972	13926		-	1034			-	3098	
1973	16465		-	433			-	1720	
1974	9345		-	389			-	2350	
1975	17069		-	328			-	2601	
1976	30266		-	7921721			-	64952	
1977	31072		-	13930171			-	126512	
1978	31701		-	6434928			-	72585	
1979	-		-	4806905			-	47227	
1980	-		-	6029731			-	68912	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Cotton woven fabrics

ISIC Code	321128								Note: unit of quantity (trade) changes to SYN from 1976
NSIC Code									
SITC Code	652								
NSTC Code	652								
	Quantity				Value				
Source	11			4,14				4,14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	100CYDN			1000SMM				1000\$	
1970	-		-	58061			-	14953	
1971	34999		-	40025			-	9984	
1972	51153		-	26789			-	6778	
1973	60182		-	5547			-	2625	
1974	37892		-	14977			-	7884	
1975	55575		-	12030			-	4796	
1976	79608		-	2480661			-	7045	
1977	84944		-	18275547			-	60492	
1978	81758		-	3221075			-	14362	
1979	-		-	241905			-	1198	
1980	-		-	907831			-	6753	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Gunny bag

ISIC Code	3215*								Note:
NSIC Code									
SITC Code	656.1								
NSTC Code	6561002-004								
	Quantity				Value				
Source	11		4,13	4,14			4,13	4,14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000000NOH		NOH	1000000NOH			1000\$	1000\$	
1970	178		-	14			-	1	
1971	194		-	8161			-	2875	
1972	199		-	19360			-	8443	
1973	202		1000	6153			1	2777	
1974	128		2000	2333			1	1267	
1975	106		200	2817			0	1274	
1976	183		-	4188			-	10729	
1977	177		-	5675			-	13282	
1978	160		-	15239			-	43060	
1979	195		-	15363			-	51238	
1980	200		-	-			-	55148	
1981	288		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: BurmaCommodity: Nitrogenous fertilizers(Urea)

ISIC Code	351201								Note:
NSIC Code									
SITC Code	561.1								
NSTC Code	5611000								
	Quantity				Value				
Source	12						4.13	4.14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM		TM	TM			1000KY	1000\$	
1970	-		-	1250			-	81	
1971	32		-	7			-	1	
1972	78		-	55			-	4	
1973	88		-	27			-	2	
1974	117		-	-			-	-	
1975	117		-	-			-	-	
1976	126		2953	-			2111	-	
1977	134		-	196			-	199	
1978	125		-	20834			-	33492	
1979	-		-	3936			-	6194	
1980	-		-	19131			-	27999	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Soap

ISIC Code	352301							
NSIC Code								
SITC Code	554.1							
NSTC Code	5541001	5541002	5541003	5541004				
Source	Quantity				Value			
	11	4,13	4,14		4,13	4,14		
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import
	1000TM		CWN	TH			1000KY	1000\$
1970	28.9		-	-			-	-
1971	32.1		-	-			-	-
1972	34.7		-	1			-	0
1973	39.4		-	1			-	0
1974	40.0		-	1			-	1.0
1975	42.1		-	2			-	1.0
1976	48.0		-	22			-	3.7
1977	44.5		3	12			1.1	3.7
1978	36.5		-	6			-	0.9
1979	39.5		-	123			-	17.5
1980	46.1		-	76			-	15.6
1981	48.5		-	-			-	-
1982	-		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Note:

unit of quantity (trade)  
changes to CWN from 1976



Country: BurmaCommodity: Matches

ISIC Code	3529*								Note:
NSIC Code									
SITC Code	899.32								
NSTC Code	8993200								
	Quantity				Value				
Source	11		4.13	4.14			4.13	4.14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000CAS		CWN	CWN			KY	KY	
1970	285		-	-			-	-	
1971	292		-	-			-	-	
1972	241		-	-			-	-	
1973	190		-	-			-	-	
1974	171		-	-			-	-	
1975	145		-	-			-	-	
1976	133		-	0			-	527	
1977	124		0	-			150	-	
1978	126		-	-			-	-	
1979	135		-	-			-	-	
1980	134		-	-			-	-	
1981	133		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Motor spirit

ISIC Code	353007A							
NSIC Code								
SITC Code	332.1							
NSTC Code	3321001							
	Quantity				Value			
Source	11			4,14				4,14
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	100000GIN			TH				1000\$
1970	489		-	574			-	50.0
1971	476		-	203			-	26.0
1972	516		-	2217			-	173.0
1973	510		-	-			-	-
1974	526		-	-			-	-
1975	636		-	2515			-	708.0
1976	520		-	-			-	-
1977	610		-	46128			-	483.6
1978	651		-	83			-	2.0
1979	660		-	144			-	0.4
1980	730		-	102			-	2.1
1981	727		-	-			-	-
1982	-		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Note:

unit of quantity (trade)  
changes to GIN from 1977

Country: Burma

Commodity: Cement

ISIC Code	369204							
NSIC Code								
SITC Code	661.2							
NSTC Code	6612000							
	Quantity				Value			
Source	12		4.13	4.14			4.13	4.14
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	1000TH		TH	TH			1000\$	1000\$
1970	154		-	1019			-	92
1971	184		-	2688			-	105
1972	211		-	820			-	59
1973	190		-	2024			-	170
1974	169		5000	699			108.0	74
1975	181		500	425630			10.0	688
1976	229		-	2984			-	2302
1977	265		0	365			0.3	348
1978	250		107972	2229			24560.0	1172
1979	274		-	2326			-	3896
1980	388		-	1703			-	1073
1981	-		-	-			-	-
1982	-		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Note:

unit of quantity (trade)  
changes to GIN from 1976

Country: Burma

Commodity: Aluminium ware

ISIC Code		37208*							Note: unit of quantity (trade) changes to CWN from 1978
NSIC Code									
SITC Code		684.22-26							
NSTC Code		68422-26							
		Quantity				Value			
Source	11	Shipment	Export	4,14 Import	Production	Shipment	Export	4,14 Import	
Unit	10C000L3N			TM				1000\$	
1970	18.7		-	1519			-	1008	
1971	23.7		-	1119			-	911	
1972	20.9		-	162			-	157	
1973	15.1		-	337			-	272	
1974	13.0		-	320			-	400	
1975	11.0		-	396			-	503	
1976	17.0		-	3530			-	1400	
1977	23.0		-	15980			-	8970	
1978	27.0		-	-			-	-	
1979	22.0		-	13617			-	9789	
1980	17.0		-	14481			-	8950	
1981	15.0		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Water pump

ISIC Code	382942								Note:
NSIC Code									
SITC Code	719.21								
HSTC Code	7192100								
	Quantity				Value				
Source	11						4.13	4.14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH						1000\$	1000\$	
1970	2442		-	-			-	1100	
1971	2481		-	-			-	1603	
1972	2901		-	-			1	1377	
1973	3051		-	-			-	1003	
1974	5369		-	-			7	099	
1975	3968		-	-			4	2755	
1976	4217		-	-			-	-	
1977	5778		-	-			-	60	
1978	5289		-	-			-	13529	
1979	6210		-	-			-	04405	
1980	4695		-	-			-	43116	
1981	5355		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Burma

Commodity: Tractor

ISIC Code	382261A								Note:
NSIC Code									
SITC Code	732.5								
HSTC Code	7325000								
	Quantity				Value				
Source	12			4.14				4.14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH			NOH				KY	
1970	686		-	-			-	-	
1971	657		-	-			-	-	
1972	594		-	-			-	-	
1973	1019		-	-			-	-	
1974	305		-	-			-	-	
1975	1700		-	-			-	-	
1976	882		-	-			-	-	
1977	844		-	-			-	-	
1978	700		-	-			-	-	
1979	754		-	16			-	327549	
1980	751		-	37			-	2698444	
1981	1073		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: BurmaCommodity: Radio Receivers

ISIC Code	383204								Note:
NSIC Code									
SITC Code	724.2								
NSTC Code	7242001								
	Quantity				Value				
Source	11			4,14			4,13	4,14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOH			NOH			1000\$	1000\$	
1970	32		-	-			-	40	
1971	36		-	-			-	430	
1972	33		-	-			-	172	
1973	19		-	-			-	771	
1974	33		-	-			1	688	
1975	30		-	-			13	722	
1976	30		-	119			-	214	
1977	24		-	76			-	164	
1978	6		-	67			-	132	
1979	10		-	133			-	188	
1980	7		-	149			-	248	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: BursaCommodity: Dry-cell battery

ISIC Code	383910								Note:
NSIC Code									
SITC Code	729.11								
NSIC Code	7291101								
	Quantity				Value				
Source	11		4.13	4.14			4.13	4.14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOM		NOM	10NOM			1000KY	1000\$	
1970	15700		-	242398			-	113	
1971	11873		-	482930			-	220	
1972	8673		-	74428			-	34	
1973	16542		-	649151			-	300	
1974	17705		-	800866			-	73	
1975	15830		-	4290			-	18	
1976	14668		-	897			-	56	
1977	16059		36	416			0.0	34	
1978	21415		-	12265			-	250	
1979	19108		-	1299			-	77	
1980	19442		-	370			-	45	
1981	16965		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: BurmaCommodity: Bicycles

ISIC Code		384404							
NSIC Code									
SITC Code		733.11							
NSTC Code		7331101							
		Quantity				Value			
Source	11			4.14				4.14	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	NOH			NOH				1000\$	
1970	6600		-	31			-	1.0	
1971	8850		-	250			-	8.0	
1972	10207		-	2			-	0	
1973	7400		-	260			-	16.0	
1974	9635		-	3			-	0	
1975	9760		-	6			-	0	
1976	9580		-	77			-	53.8	
1977	12916		-	205			-	163.4	
1978	11543		-	1632			-	501.3	
1979	12880		-	652			-	502.6	
1980	9352		-	36			-	24.2	
1981	9582		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Note:

Country: Burma

Commodity: Passenger bus

ISIC Code	384312 384313								Note:
NSIC Code									
SITC Code	732.2								
NSTC Code	7322000								
	Quantity				Value				
Source	12			4,14				4,14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM			NOM				1000\$	
1970	193		-	145			-	892	
1971	119		-	103			-	628	
1972	69		-	101			-	745	
1973	179		-	3			-	13	
1974	98		-	1			-	8	
1975	151		-	11			-	43	
1976	73		-	2			-	62	
1977	64		-	-			-	-	
1978	203		-	0			-	620	
1979	-		-	1			-	95	
1980	-		-	-			-	-	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

PART IV

HONG KONG

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Convertors between ISIC and National Classification
- IV. Commodity Balance Sheets

I. Explanatory Notes on Manufacturing Statistics

## HONG KONG

### 1. CENSUS

Reference Period: Calendar year (but establishments could use their own financial year as the reference period for reporting;

- 1) as long as a minimum of half a year of their accounting period fell within the calendar year 1973 (as for 1973 Census)\*1 (Refer to p.4)
- 2) twelve months ended anywhere between 31st December 1978 and 31st March 1979, both date inclusive (as for 1978 Census)\*2 (Refer to p.5)

Note: Establishments which commenced or ceased business during the year concerned were required to report on that part of the reference period in which they were in operation.\*3 (Refer to p.5)

Census Year: 1973 and 1978 (As initial preparation moves for 1973 Census, 1971 Census of Manufacturing Establishments was carried out in 1971.)

Office in Charge: Census and Statistics Department

#### Title of the Report

- 1) 1973 Census of Industrial Production
- 2) 1978 Survey of Industrial Production

#### Coverage

- 1) Industrial covered  
Major Divisions 2, 3 and 4 of the United Nations International Standard Industrial Classification of All Economic Activities (that is to say, mining and quarrying; manufacturing; and electricity, gas and water)
- 2) Establishments covered (as for manufacturing) \*4 (Refer to P. 5-0)
  - A. 1973 Census
    - a. Establishments engaging 10 or more persons -- complete coverage
    - b. Establishments engaging 1 to 9 persons -- 10% sample survey

B. 1978 Census

- a. Establishments engaging 20 or more persons -- complete coverage
- b. Establishments engaging 10 to 19 persons -- one-in-two sample survey
- c. Establishments engaging 1 to 9 persons -- one-in-six sample survey

- Notes:
- 1. Establishments in mining and quarrying, electricity and gas, government industry, and non-profit institutions were fully covered.
  - 2. Establishments primarily engaged in the repair of household appliances, motor vehicles, watches, television receivers and radios, are grouped under personal and household services and thus fall outside the scope of the survey.

Enumeration Unit: The establishment is a unit of enumeration in the survey.

Industrial Classification: International Standard Industrial Classification of the United Nations, 1968 ed. (In order to provide a more detailed classification to suit the local industrial structure certain industry groups\*\*at the 3-digit level were expanded more than ISIC 3-digit code as for 1978 Census. The classification used in Hong Kong was compatible with and readily convertible to the ISIC at the 4-digit level.)

\*\*

Industry	ISIC code	Codes actually used
Textiles (including knitting)	321	325 to 329
Wearing apparel	322	320 & 322
Fabricated metal products	381	380 & 381
Electrical & electronic products	383	383 & 389

## Survey Questionnaire

Census questionnaires were despatched by recorded mail delivery to the selected establishments and were requested to return the complete forms by mail. But in the case when establishments did not respond by mail, questionnaires were collected by field staff, and in some cases, interviewing staff actually filled in the forms themselves.

As for the 1978 Census, survey questionnaire were used in two versions, a long form for manufacturing establishments engaging 20 or more persons and a short form for those engaging fewer than 20 persons.\* 5(Refer to p. 5-0)

## Main Topics Surveyed

### 1) 1973 Survey

- a. Type of ownership
- b. Number and sex of persons engaged
- c. Labour cost
- d. Contract and commission work
- e. Total cost of materials
- f. Quantity and purchase cost of principal materials
- g. Cost of fuel, water and electricity
- h. Payments for rent, rates, interest and royalties and for non-industrial services
- i. Total proceeds of sales and work done
- j. Quantity and proceeds of principal products sold
- k. Stocks
- l. Capital expenditure and capital stock

### 2) 1978 Survey

- a. Type of ownership
- b. Number of persons engaged
- c. Man-hours worked

- d. Labor cost
- e. Contract and commission work
- f. Purchases of material and supplies and their commodity breakdown
- g. Consumption of fuel, electricity and water
- h. Rental and interest payments
- i. Cost of non-industrial services rendered by others
- j. Sales and work done
- k. Commodity breakdown of products sold
  - l. Receipts other than from production
- m. Stocks
- n. Capital expenditure
  - o. Depreciation and book value of fixed assets
  - p. Effective floor area of factory premises

\*1

Month financial year ended	Number of reporting establishments	Census value added in \$ million
June 1973	81	95
July 1973	24	58
Aug. 1973	18	19
Sept. 1973	48	177
Oct. 1973	26	47
Nov. 1973	16	89
Dec. 1973	1,984	3,771
Jan. 1974	142	255
Feb. 1974	38	52
Mar. 1974	2,398	4,473
Apr. 1974	36	43
May 1974	36	49
June 1974	188	219
Total	4,965	9,346



\*2

Month in which reporting period ended	Number of reporting establishments	Census value added HK\$ Million	%
December 1978	17,811	8,941	40.8
January 1979	680	486	2.2
February 1979	216	127	0.6
March 1979	14,656	12,357	56.3
Other months	126	27	0.1
Total	33,489	21,938	100.0

Note: For establishments engaging fewer than 20 persons which were enumerated on a sample basis, figures on reporting establishments and census value added have been grossed up to represent similar establishments not sampled.

\*3

Year: 1973

	Total	Establishments operating in 1973	
		Establishments in operation during Census-taking period	Establishments not in operation during Census-taking period
Manufacturing establishments			
Total	30,542	24,951	5,591
20 or more person	5,498	4,965	533
10 to 19 persons	4,960	3,529	1,431
1 to 9 person* (sample)	20,084 (2,009)	16,457 (1,644)	3,627 (365)
Mining and quarrying establishments	19	17	2
Electricity and gas establishments	4	4	-
Government industries	7	7	-
Non-profit institutions	10	10	-

\* Estimated from the sample for establishments engaging 1 to 9 persons.

\*4 Sample design (1978)

Size of establishments (in terms of persons engaged)	Number of manufacturing establishments		Percentage selected overall
	On register	Selected in sample	
1 to 9 persons	28 544	4 753	16.7
10 to 19 persons	6 399	3 181	49.7
20 persons and over	8 246	8 246	100.0
All sizes	43 189	16 180	37.5

\*5 Summary of response (1978)

Allotments	Returns		Returns	Returns	
	long form	short form		long form	short form
<u>Cases despatched</u>	8 246	7 934	<u>Cases received</u>	6 505	6 265
for the main sample	7 410	6 849	completed returns	6 488	6 236
for the supplementary sample of late registrations	817	1 085	incomplete returns requiring imputation of a few minor entries	17	29
additional forms for separate production departments of leading establishments	19	-			
<u>less Cases deleted</u>	1 741	1 669			
closures/suspensions	190	278			
removals untraceable	302	564			
non-manufacturing establishments	137	392			
branch establishments without separate returns	803	255			
duplications	221	82			
establishments commencing operation after 1978	88	98			
<b>Total</b>	<b>6 505</b>	<b>6 265</b>	<b>Total</b>	<b>6 505</b>	<b>6 265</b>

## Definition of Terms

1. Establishment      An establishment is ideally an economic unit which engages, under a single ownership or control, in one or predominantly one kind of economic activity at a single physical location. Where separate figures relating to different activities or different locations under the same management are not available, a combined return is accepted and in this case, the reporting unit is treated as an establishment.\*(Please refer to page 8-0)
2. Number of persons engaged (averaging over the four quarters covered by the reporting period)      equals      number of working proprietors and active business partners (male and female)  
plus      number of unpaid family workers (male and female)  
plus      number of operatives (by shift, full-time and part-time, male and female)  
plus      number of other employees (full-time and part-time, male and female)
3. Total number of man-hours worked by operatives (likewise in respect of other employees)      equals      number of operatives (male and female)  
times      number of days worked during the reporting period  
times      number of normal working hours per day (computed separately by shift of full-time/part-time operatives and then added up)  
plus      total man-hours of overtime worked by operatives
4. Total number of man-hours worked      equals      total number of man-hours worked by operatives  
plus      total number of man-hours worked by other employees  
plus      estimated number of man-hours worked by working proprietors and unpaid family workers
5. Compensation of employees (or Labour cost)      equals      wages to operatives  
plus      salaries to other employees  
plus      payments in kind and employer's social security expenditure  
plus      payments to outworkers

6. Purchases of materials, supplies and industrial services	equals plus plus	purchases of materials/supplies for production and business operation purchases of goods for resale in same condition payments for work done by other establishments
7. Consumption of materials, supplies and industrial services	equals less	purchases of materials, supplies and industrial services changes in stocks of materials/supplies and goods for resale
8. Miscellaneous operating expenses	equals plus plus plus	rents and rates interest payments on operating loans quota transfer payments other operating expenses
9. Sales and work done	equals plus plus plus	sales of goods produced machinery produced for own use resales of goods in same condition as purchased receipts for work performed or industrial services rendered to others
10. Gross output	equals plus	sales and work done changes in stocks of work in progress and finished products
11. Other receipts	equals plus plus	rents received quota transfer receipts income from other sources
12. Changes in the book value of stocks	equals less	book value of stocks at end of year of (i) materials/supplies (ii) work in progress (iii) finished products (iv) goods for resale book value of stocks at beginning of year of (i) materials/supplies (ii) work in progress (iii) finished products (iv) goods for resale
13. Census value added	equals less	gross output consumption of materials, supplies and industrial services

14. National accounts value added	equals	gross output (net of stock appreciation for work in progress and finished products)
	less	consumption of materials, supplies and industrial services (net of stock appreciation for materials/ supplies and goods for resale)
	plus	other receipts (except quota transfer receipts)
	less	miscellaneous operating expenses (except interest payments and quota transfer payments)
15. Gross surplus	equals	census value added
	plus	other receipts
	less	compensation of employees
	less	miscellaneous operating expenses
16. Acquisition of fixed assets	equals	acquisitions of (i) land and buildings (ii) plant and machinery (iii) other fixed assets
17. Disposal of fixed assets	equals	proceeds from sales of (i) land and buildings (ii) plant and machinery (iii) other fixed assets
18. Gross additions to fixed assets	equals	acquisition of fixed assets
	less	disposal of fixed assets
19. Specialization ratio	equals	$\frac{\text{sales of primary products by industry group specified}}{\text{total sales of all goods produced in the same industry group}}$
20. Coverage ratio	equals	$\frac{\text{sales of primary products by industry group specified}}{\text{total sales of corresponding products by all industry groups}}$
21. Effective floor area	equals	floor area for production processes
	plus	floor area for other purposes

\* Reporting Establishment and Non-Reporting Establishment:

Reporting establishments refers to those factories that have actually completed a return for the Survey. For the stratum of establishments engaging fewer than 20 persons, a sample was drawn and the data obtained were grossed up to account for those establishments in the survey frame but not selected. The economic contributions of non-reporting establishments were imputed from their employment levels as recorded in a regular employment enquiry, with due reference to the cost and production patterns displayed by reporting establishments of the same industry and employment size. Establishments operating for only part of 1978 were imputed with a lesser economic contribution than a similar one operating throughout the year. The number of non-reporting establishments, however, denotes an actual count of those factories which are known to be in operation for either the whole or part of 1978, but have ceased business prior to the commencement of the Survey. (Quoted from the definition of 1978 Census)

1973 Census - Difference of Difinitions by Size of Establishmerts

- a. Establishments engaging 20 or more persons only.
- b. Establishments engaging less than 20 persons only.

Labour Cost a. equals wages and salaries to operatives  
plus wages and salaries to other employees  
plus payments in kind  
plus employers' social security expenditure  
and cost of welfare services  
plus payments to outworkers

b. equals wages and salaries to operatives  
plus wages and salaries to other employees

Payments for non-industrial services a. equals transportation of production materials  
and supplies  
plus transportation of finished products  
plus storage  
plus advertising  
plus banking and insurance  
plus other non-industrial services

b. ---

Rental & other payments a. equals rent for land  
plus rent for buildings  
plus crown rent and rates for land  
plus rates for buildings  
plus rental for machinery and equipment  
plus interest  
plus royalties

b. ---

Sales & work down a. equals local sales of goods produced  
plus export sales of goods produced  
plus sales of goods in same condition as purchased  
plus work performed or services rendered to local  
customers  
plus work performed or services rendered to  
overseas customers and exporters

b. equals total sales of goods  
plus work performed or services rendered

Gross output a. equals local sales of goods produced  
plus export sales of goods produced  
plus stocks of work in progress & goods on hand  
for sale at end of year  
less stocks of work in progress & goods on hand for  
sale at beginning of year  
plus sales of goods in same condition as purchased  
plus work performed or services rendered to local  
customers  
plus work performed or services rendered to overseas  
customers & exporters

- b. equals total sales of goods
  - plus work performed or services rendered
  - less stocks of work in progress & goods on hand for sale at beginning of year
  - plus stocks of work in progress & goods on hand for sale at end of year

Purchases of materials, supplies; fuel water, electricity; and industrial services

- a. equals purchases of domestic materials & supplies
  - plus purchases of imported materials & supplies
  - plus expenditure on fuels
  - plus expenditure on water
  - plus expenditure on electricity
  - plus contract & commission work done by other establishments
  - plus repair & maintenance
- b. equals purchases of materials & supplies
  - plus fuels, water & electricity
  - plus contract & commission work

Census value added

- a. equals gross output
  - less purchases of domestic materials & supplies
  - less purchases of imported materials & supplies
  - less fuels consumed
  - less water consumed
  - less electricity consumed
  - plus stocks of materials & supplies at end of year
  - less stocks of materials & supplies at beginning of year
  - less contract & commission work
  - less repair & maintenance
- b. equals gross output
  - less purchases of materials & supplies
  - less fuels, water and electricity
  - plus stocks of materials/supplies/fuels at end of year
  - less stocks of materials/supplies/fuels at beginning of year
  - less contract & commission work

Gross addition to fixed assets

- a. equals capital expenditure on new, own account, existing/second hand
  - 1)land, 2)buildings, 3)machinery & equipment, 4)furniture & equipment, 5)moulds, 6)transport equipment and 7)other fixed assets
  - less proceeds from sales of
    - 1)land, 2)buildings, 3)machinery & equipment, 4)furniture & equipment, 5)moulds, 6)transport equipment and 7)other fixed assets
- b. equals acquisition of fixed assets
  - less proceeds from sales of fixed assets



## 2. ANNUAL SURVEY

Reference Period: One year period of calendar year

Survey Year: 1974, 1975, 1976, 1977, 1979, 1980, 1981, 1982

Office in Charge: Census and Statistics Department

### Title of the Report

- 1976 Census of Industry
- 1977 Census of Industry
- 1979 Survey of Industrial Production
- 1980 Survey of Industrial Production
- 1981 Survey of Industrial Production
- 1982 Survey of Industrial Production

### Coverage

#### 1) Industrial covered

- A. 1974 & 1975 -- Textile and clothing industries
- B. 1976, 1977, 1979, 1980, 1981 & 1982 -- Major divisions 2, 3 and 4 of the United Nations International Standard Industrial Classification of All Economic Activities (that is to say, mining and quarrying; manufacturing; and electricity, gas and water)

#### 2) Establishments covered (as for manufacturing)\*1 (Refer to p.11)

##### A. 1976, 1979, 1980, 1981 and 1982 Surveys

- a. Establishments engaging 100 or more persons -- complete coverage
- b. Establishments engaging fewer than 100 persons -- sample survey

##### B. 1977 Survey

- a. Establishments engaging 50 or more persons -- complete coverage
- b. Establishments engaging fewer than 50 persons -- sample survey

## C. 1974 and 1975 Surveys

### a. Establishments engaging 10 persons or more

Notes: 1. Mining and quarrying establishments, Government industries, electricity and gas companies, and workshops in welfare institutions were fully covered except in the 1974 & 1975 Surveys.

2. In the 1981 and 1982 Survey report, unlike previous survey report which placed more emphasis on the reporting establishments only, almost all the statistical tables with a little exception relate to "all establishments" which also incorporated the economic contributions of non-reporting establishments. ("Non-reporting establishments" refer to those establishments which operated during part or whole of the reference period but which ceased operation during the survey operation such that data could not be obtained in respect of them.)

Enumeration Unit: The establishment is a unit of enumeration in the survey.

Industrial Classification: I.S.I.C. of United Nations.

### Enumeration

The method of postal enquiry, with field follow-up contacts, was adopted for the survey.\*2(Refer to p. 11-0)

### Main Topics Surveyed

- 1) Type of ownership
- 2) Local/overseas investment
- 3) Number of persons engaged
- 4) Labour cost (equal Compensation of employees)
- 5) Purchases material/supplies and other operating expenses
- 6) Sales (and work down)
- 7) Contract and commission work
- 8) Stocks
- 9) Capital expenditure (and value of all assets)
- 10) Other receipts (as for 1977, 1979 and 1980 Surveys)
- 11) Man-hours worked (as for 1979 and 1980 Surveys)

Definition: Please refer to that of Census.

\*1 Sample design

SIZE OF ESTABLISH- MENT (NO. OF PERSONS ENGAGED)	NUMBER OF ESTABLISHMENTS		
	In register	Selected in sample	% selected overall
1976 Survey			
1 - 9	25,021	2,857	11.4%
10 - 19	5,820	1,253	21.5%
20 - 49	4,408	1,645	37.3%
50 - 99	1,817	736	40.5%
<u>100 &amp; over</u>	<u>1,363</u>	<u>1,363</u>	<u>100.0%</u>
Total	38,429	7,854	20.4%
1977 Survey			
1 - 9	26,064	2,882	11%
10 - 19	5,799	1,363	24%
20 - 49	4,291	1,814	42%
<u>50 &amp; over</u>	<u>2,992</u>	<u>2,992</u>	<u>100%</u>
Total	39,146	9,051	23%
1979 Survey			
1 - 9	35,229	2,691	7.6%
10 - 19	8,170	1,481	18.1%
20 - 49	4,857	1,766	36.4%
50 - 99	2,200	1,073	48.8%
<u>100 &amp; over</u>	<u>1,476</u>	<u>1,476</u>	<u>100.0%</u>
Total	51,932	8,487	16.3%
1980 Survey			
1 - 9	44,113	2,273	5.2%
10 - 19	10,214	1,347	13.2%
20 - 49	6,173	1,489	24.1%
50 - 99	2,556	963	37.7%
<u>100 &amp; over</u>	<u>1,543</u>	<u>1,543</u>	<u>100.0%</u>
Total	64,599	7,615	11.8%

	In register	selected in sample	% selected overall
1981 Survey Total	59,937	7,925	13.2%
1982 Survey Total	50,714	7,865	15.5%

\* 2 Summary of Response

Establishment

	No of Industry Sector	In Register	Questionnaire Dispatched (%)	Complete Returns Received (%)	Deletion Cases#	Non-Response or Particilly Completed Returns (%)	Response Rate (%)
1976		38,429	7,854 (20.4)	6,578 (83.8)	1,276 (16.2)		100
1977		39,146	9,051 (23)	7,490 (82.8)	1,561 (17.2)		100
1979	147	51,932	8,487 (16.3)	6,400 (75.4)	1,889 (22.3)	198 (2.3)	
1980	149	64,599	7,615 (11.8)	5,413 (71.1)	2,087 (27.4)	119 (1.6)	
1981	149	59,973	7,925 (13.2)	5,927 (74.8)	1,970 (24.9)	28 (0.4)	
1982	149	50,714	7,865 (15.5)	6,203 (78.9)	1,627 (20.7)	35 (0.4)	

# Deletion cased: closures, untraceable removals, branches without separate returns, establishments outside the scope of the Survey etc.

11-0-

11-0-

### 3. OTHER SURVEYS

#### 1) Quarterly textiles production survey (New series from 1975)

Statistics of textile production are compiled from quarterly returns submitted by establishments classified to the spinning and weaving industries on the Register of manufacturing establishments maintained by the Census and Statistics Department.

Establishments Covered: Establishments engaging;

- a. 20 or more persons are surveyed fully,
- b. less than 20 persons are selected on a sample basis.

Note: Production of similar items by establishments outside the spinning and weaving sectors are not included. The old series of textile production statistics was discontinued since the first quarter of 1975.

Items Covered

- a. Number of spinning and weaving establishment
- b. Number of persons engaged (by sex)
- c. Proportion of export and local sales in total sales and work done
- d. Materials consumed and material stocks
- e. Production and product stocks
- f. Machinery (Number in stalled & Number in operation)
- g. Index of textile production

Title of the Report: Textile Production Statistics  
(Quarterly)

Note: Statistical data on above mentioned items (a-g) are also presented in the following publications;

- a. Hong Kong Annual Digest of Statistics  
(Items e & g)
- b. Hong Kong Monthly Digest of Statistics  
(1970 - 1974: Items e & g, 1975 -: Items a-g)

## 2) Quarterly survey of industrial production

This survey was initiated in 1982 with the purpose of producing an index of industrial production for the whole manufacturing sector by the Census & Statistics Department.

Title of the Report: Report on the Quarterly Index of Industrial Production

Establishments Covered: The sample is drawn from a register of manufacturing establishments maintained by the Census and Statistics Department.

- a. Establishments engaging 500 or more persons are fully covered.
- b. Establishments engaging fewer than 500 persons -- sample survey.

### Survey Methodology

Bilingual survey forms are mailed to sampled establishments at the end of each survey reference quarter. Completed questionnaires may be returned by post or collected by field staff of the Census and Statistics Department.

### The Information Collected in the Survey

- a. The value of sales and work done by establishments
- b. The book value of stocks of finished goods, work in progress, materials and supplies
- c. The value and quantity of production by type of commodity or industrial service
- d. The producer prices of commodity or industrial service items

## 3) Others

- a. Statistics of cement production are supplied by the cement manufacturing companies
- b. The output of mines is supplied by the commissioner of Mines
- c. The output of electricity and gas is supplied by the public utilities

And, the great majority of which are registered with the Commerce and Industry Department for certification purposes.

Statistical data of the captioned a, b and c are presented in the following publications;

- a. Hong Kcng Annual Digest of Statistics,
- b. Hong Kong Monthly Digest of Statistics.

## II. General Industrial Statistics

### 1. Explanatory Notes

### 2. Statistical Tables

#### 2.1 Number of Establishments

#### 2.2 Employment (Average Number of persons engaged )

#### 2.3 Employment (Average Number of Employees )

#### 2.4 Gross Output

#### 2.5 Wages and Salaries

#### 2.6 Value added

#### 2.7 Gross Fixed Capital Formation

#### 2.8 Index Number of Industrial Production (1975=100)



## Explanatory Notes

### I. Classification:

The classification of industrial activity set out in the tables follows the three-digit code of the present version of ISIC. The data used NA (national source) is based on ISIC in principle. (Please refer to ISIC-NSIC Convertors in details.)

### II. Sources of Data:

The statistical data presented in the following tables derived from three kinds of data sources, UN, UNIDO and NA. The abbreviation of data sources are as follows.

UN-----UN, Yearbook of Industrial Statistics, Vol. I, General Industrial Statistics.

UNIDO--UNIDO, General Industrial Data Base.

NA1-----1) Census and Statistics Department, Census of Industry.

2) Census and Statistics Department, Survey of Industrial Production.

3) Census and Statistics Department, Census of Industrial Production.

### III. Reference Period:

The reference period is the calendar year from 1 January to 31 December.

### IV. Concepts and Definitions:

For description of concepts and definitions used in the data sources cited above, please refer to Explanatory Notes on Manufacturing Statistics.

V. General Note:

The data used NA (national source) in the tables of 1973, 1976-1980 are placed more emphasis on "reporting establishments" only and those of 1981-1982 relate to "all establishments" which also incorporated the economic contributions of "non-reporting establishments\*".

\* "Non-reporting establishments" refer to those establishments which operated during part or whole of the reference period but which ceased operation during the survey operation such that data could not be obtained in respect of them.

VI. Special Notes on Each Data Source:

1) UN

- a. In December of the year indicated.
- b. Manufacturing: establishment with power-driven.
- c. In the fourth quarter of the year indicated.
- d. Excluding payments in kind.
- e. Reporting establishment with 10 or more persons engaged.
- f. Including payments in kind and employers' contributions to social security fund and cost of welfare services.
- g. ---

2) NA

- h. Major group 351 is including 352.
- i. Major group 361 is including 362 and 369.
- j. Major group 371 is including 372.
- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

- 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.

## COUNTRY: HONG KONG

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970 b/	1971 b/	1972 b/	1973	1974	1975	1976	1977 a/	1978 a/	1979 a/	1980 a/	1981 a/	1982 a/	1983		
311/2	Food products UN UN1 NA1 NA2	650	680	750	900	1130	1114	1100	1117	1175	1153	1153	1127	1124			
					900		982	847	708	902	863	919	935				
					21	28	27	27	28	31	28	28	23	28			
					21				28	10	17	14	18	18	15		
313	Beverages																
314	Tobacco																
321	Textiles	2540	2024	3110	3100	3405	3411	3002	3721	3734	3657	4970	4865	4854			
					3100				3820	3753	3010	4058	4356	5685	4758		
322	Wearing apparel	2200	2020	3304	5002	6848	7073	8022	8714	9450	9647	8654	9805	9107			
					5002				6878	7023	6997	7948	8090	9198	9446		
323	Leather and products	61	60	68	201	102	168	138	132	146	148	215	251	220			
					201				100	220	250	271	338	382	343		
324	Footwear	108	252	258	407	487	450	408	452	444	435	476	560	542			
					407				456	303	352	415	491	363	557		
331	Wood products	504	542	630	952	1217	1150	1223	1288	1324	1273	1277	1222	1152			
					952				980	1071	1013	930	918	1373	1054		

## COUNTRY:HONG KONG

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	347	421	553	944	1217	1178	1230	1200	1432	1418	1536	1521	1489	
					944			1047	805	980	1161	1090	1347	1187	
341	Paper and products	411	458	543	777	940	915	1009	1080	1133	1180	1308	1308	1341	
					777			935	978	1010	1013	1053	1382	1317	
342	Printing, publishing	1078	1138	1201	1318	1542	1578	1881	2007	2292	2457	2654	2874	2930	
					1318			1084	1770	2041	2499	2709	3246	3087	
351	Industrial chemicals	28	27	30	57	42	37	40	62	90	123	188	210	223	
					57			54	107	163	210	200	144	300	
352	Other chemical products	124	134	161	371	417	383	390	385	427	454	440	483	487	
					371			353	358	408	380	394	487	430	
353	Petroleum refineries	1	1	2		1	2	1	1	1	1	1		1	
354	Petroleum, coal products						1	2	3	5	4	3	6	6	
355	Rubber products	337	340	351	235	358	330	350	372	407	435	409	416	348	
					235			302	204	210	219	260	325	332	

## COUNTRY:HONG KONG

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	2750	3010	3230	2751	3800	3437	3844	3005	4515	4674	4939	5431	5021	
					2751				3111	3355	3517	3964	4284	5133	4834
361	Pottery, china etc.	10	18	25	40	50	50	52	00	00	70	76	79	80	
					40				50	53	41	66	66	76	61
362	Glass and products	75	74	82	134	100	150	160	150	172	165	174	169	161	
					134				120	128	141	121	125	140	118
369	Non-metal products n.e.c.	30	37	41	61	80	73	91	110	118	131	137	150	157	
					61				48	70	87	120	103	89	162
371	Iron and steel	72	09	70	50	112	111	133	154	103	174	154	153	143	
					50				72	120	80	62	69	131	121
372	Non-ferrous metals	75	81	80	80	133	140	100	172	181	159	155	148	143	
					80				128	124	108	69	47	196	270
381	Metal products	2580	2034	3350	3270	4700	4074	6113	6481	7357	7330	7519	7747	7119	
					3270				3038	4402	4027	4078	5795	6815	6441
382	Machinery n.e.c.	732	775	844	1400	1330	1220	1354	1380	1478	1471	1850	2230	2403	
					1400				2512	2211	2280	2853	3014	3713	3048

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	446	511	570	795	850	891	1228	1332	1576	1860	2132	2331	2378	
					795			1166	1292	1218	1430	1748	2174	1732	
384	Transport equipment	59	74	82	174	239	217	248	270	318	307	404	452	489	
					174			263	224	284	314	404	414	374	
385	Professional goods	146	149	179	244	282	318	442	470	662	920	1346	1415	1489	
					244			546	567	661	898	1203	1593	1482	
390	Other industries	897	918	848	1380	1644	1609	1988	2251	2525	2606	2815	3017	3008	
					1380			2214	2282	2265	2428	2656	2977	2784	

Special Notes on Each Data Source:

## 1) UN

- a. In December of the year indicated.
- b. Manufacturing: establishment with power-driven.
- c. In the fourth quarter of the year indicated.
- d. Excluding payments in kind.
- e. Reporting establishment with 10 or more persons engaged.
- f. Including payments in kind and employers' contributions to social security fund and cost of welfare services.
- g. ---

## 2) NA

- h. Major group 351 is including 352.
- i. Major group 361 is including 362 and 369.
- j. Major group 371 is including 372.
- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

- 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.

## COUNTRY: HONG KONG

## Employment (Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974 <sub>a/</sub>	1975 <sub>a/</sub>	1976 <sub>a/</sub>	1977 <sub>a/</sub>	1978 <sub>a/</sub>	1979 <sub>a/</sub>	1980 <sub>a/</sub>	1981 <sub>a/</sub>	1982 <sub>a/</sub>	1983	
311/2	Food products UN UNIND NA1 NA2				13.3	14.2	14.3	15.2	15.3	16.5	16.6	18.0	17.3	18.4		
						14	14	15	15	16	17	18				
					13.3			14.0	14.4	14.2	15.8	16.7	16.3	17.6		
313	Beverages				3.5	2.0	2.7	3.0	3.3	3.5	3.4	4.0	4.2	4.3		
						3	3	3	3	3	3	4	4	4		
					3.5			3.4	3.3	4.2	4.2	4.3	4.3	4.7		
314	Tobacco				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9		
						1	1	1	1	1	1	1	1	1		
					0.8			0.8	0.8	0.8	0.8	0.8	0.9	0.9		
321	Textiles				133.0	98.2	112.0	115.0	102.5	98.6	100.8	127.6	122.8	111.9		
						109	113	110	102	99	101	128	123			
					133.0			137.1	118.5	117.4	124.9	124.6	127.4	109.0		
322	Wearing apparel				168.8	188.5	230.0	265.0	251.3	271.3	277.3	263.7	259.7	257.3		
						180	230	266	251	271	277	264	260			
					168.8			260.8	258.8	246.6	264.7	276.3	295.8	279.5		
323	Leather and products				3.0	2.1	2.5	2.4	2.1	2.2	2.6	3.8	3.6	3.0		
						2	2	2	2	2	3	4	4			
					3.0			3.7	4.7	4.4	5.8	7.1	5.9	5.0		
324	Footwear				5.0	4.2	4.3	5.0	5.0	5.1	6.1	6.9	8.1	7.4		
						4	4	5	5	5	6	7	8			
					5.0			6.7	5.2	5.8	7.3	7.7	9.8	7.3		
331	Wood products				7.2	7.0	7.0	7.7	7.0	8.1	8.3	7.4	7.0	6.2		
						7	8	8	8	8	8	7	7			
					7.2			6.0	7.0	6.7	7.3	6.5	8.4	6.6		

COUNTRY:HONG KONG

Employment (Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures				8.0	7.4	7.5	8.5	8.7	9.4	9.4	11.4	10.7	9.4	
					8.0	7.7	7.7	8.0	8.2	8.8	9.5	8.6	11.7	8.4	
341	Paper and products				8.9	7.2	7.4	9.0	9.0	10.0	11.2	11.8	11.7	12.4	
					8.9	7.7	7.7	9.5	9.0	10.0	11.4	14.0	13.3	12.0	
342	Printing, publishing				20.3	10.3	10.8	22.4	22.1	23.0	25.1	27.3	28.5	28.5	
					20.3	10.9	20.9	22.1	22.2	24.2	27.7	29.5	35.0	31.3	
351	Industrial chemicals				0.7	0.8	0.0	0.0	1.0	1.3	1.5	2.0	2.0	2.0	
					0.7	1.1	1.1	0.0	1.3	1.8	2.0	2.0	h/ 8.8	h/ 8.3	
352	Other chemical products				5.0	5.0	4.0	4.7	4.8	5.1	5.4	6.0	5.9	5.6	
					5.0	5.5	5.5	5.2	5.5	5.7	5.6	5.7	6.0	5.6	
353	Petroleum refineries														
354	Petroleum, coal products												0.3	0.3	
355	Rubber products				0.7	0.0	0.1	0.3	5.4	6.2	5.3	4.9	4.6	3.8	
					0.7	0.7	0.9	0.2	4.7	3.5	4.5	4.7	4.0	4.6	



## COUNTRY:HONG KONG

## Employment (Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.				71.4	59.1	63.7	77.0	78.4	80.5	87.9	86.1	89.1	80.7	
					71.4	59.1	64.0	77.0	78.4	80.5	88.0	86.1	89.1	82.9	
361	Pottery, china etc.				0.7	0.5	0.5	0.5	0.9	0.7	0.7	0.8	0.8	0.6	
					0.7	0.5	0.9	0.8	0.8	0.6	1.0	1.0	1/ 4.7	1/ 4.7	
362	Glass and products				2.0	1.7	1.8	2.2	2.0	2.2	2.2	1.9	1.9	1.5	
					2.0	2.0	2.0	2.2	2.0	2.2	2.2	1.9	1.9	1.5	
369	Non-metal products n.e.c.				1.0	1.0	1.0	1.2	1.5	1.7	1.9	2.0	2.2	2.5	
					1.0	1.0	1.0	1.1	1.5	1.8	2.0	1.9	2.2	2.5	
371	Iron and steel				2.2	2.1	2.0	2.3	2.0	2.7	2.7	3.3	3.1	2.6	
					2.3	2.2	2.2	2.4	2.8	2.6	2.0	2.6	3/ 6.2	3/ 5.4	
372	Non-ferrous metals				1.1	1.0	1.1	1.5	1.5	1.7	1.5	1.6	1.6	1.6	
					1.1	1.0	1.1	2.4	2.2	1.5	2.3	2.3	1.6	1.6	
381	Metal products				53.7	52.4	57.3	69.8	70.0	80.1	84.8	84.2	82.4	70.8	
					53.7	52.4	57.3	63.7	62.8	67.4	76.0	89.6	84.6	72.0	
382	Machinery n.e.c.				11.7	10.0	11.0	12.0	12.0	12.9	13.6	14.3	16.3	14.1	
					11.7	11.0	12.0	15.1	13.2	15.0	17.3	19.4	20.0	16.5	

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
383	Electrical machinery				72.0	64.7	66.4	88.1	89.5	98.0	117.7	122.1	124.8	113.1		
						65	66	88	89	98	118	122	125			
					72.0			92.7	98.4	94.7	122.3	131.9	136.1	121.8		
384	Transport equipment				17.4	14.1	11.1	11.8	12.2	13.5	14.1	15.4	17.1	17.2		
						14	11	12	12	13	14	15	17			
					17.4			16.8	14.0	14.8	16.6	17.9	18.2	17.9		
385	Professional goods				10.7	11.2	13.2	18.4	20.6	26.8	39.3	48.1	46.5	43.4		
						11	13	18	21	27	39	48	46			
					10.7			19.5	24.9	31.2	40.9	49.2	57.9	49.0		
390	Other industries				23.3	16.9	18.6	21.4	23.6	27.8	30.5	32.1	33.1	27.7		
						17	19	21	24	28	30	32	33			
					23.3			28.9	29.8	30.0	31.9	31.9	35.7	29.9		

Special Notes on Each Data Source:

## 1) UN

- a. In December of the year indicated.
- b. Manufacturing: establishment with power-driven.
- c. In the fourth quarter of the year indicated.
- d. Excluding payments in kind.
- e. Reporting establishment with 10 or more persons engaged.
- f. Including payments in kind and employers' contributions to social security fund and cost of welfare services.
- g. ---

## 2) NA

- h. Major group 351 is including 352.
- i. Major group 361 is including 362 and 369.
- j. Major group 371 is including 372.
- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

- 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.







CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	48.8	52.5	62.4	71.4										
		49	52	62	71										
384	Transport equipment	13.5	15.7	14.5	17.2										
		13	16	14	17										
385	Professional goods	7.2	7.6	7.9	10.5										
		7	8	8	10										
390	Other industries	39.8	29.7	20.8	21.6										
		40	30	21	22										

Special Notes on Each Data Source:

## 1) UN

- a. In December of the year indicated.
- b. Manufacturing: establishment with power-driven.
- c. In the fourth quarter of the year indicated.
- d. Excluding payments in kind.
- e. Reporting establishment with 10 or more persons engaged.
- f. Including payments in kind and employers' contributions to social security fund and cost of welfare services.
- g. ---

## 2) NA

- h. Major group 351 is including 352.
- i. Major group 361 is including 362 and 369.
- j. Major group 371 is including 372.
- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

- 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY: HONG KONG

Gross Output (In Producers' Prices)

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN UNIDX NA1 NA2				940			1244	1530	1700	2272	2771	3212		
						940	1000	1180	1244	1530	1700	2272	2771			
						940			1244	1530	1700	2272	2771	3333	4722	
313	Beverage				238			380	502	500	690	906	1156			
					238	250	207	380	502	500	690	906				
					237			380	502	500	690	906	1120	1257		
314	Tobacco				154			430	440	475	588	638	736			
					154	242	312	430	440	475	588	638				
					154			430	440	475	588	638	578	653		
321	Textiles				8510	e/7411	e/0133	11801	10413	12170	15625	17626	19808			
					8510	7411	0133	11801	10413	12170	15625	17626				
					8510			11801	10413	12170	15625	17626	21189	20086		
322	Wearing apparel				0383	e/7302	e/0725	12001	13001	15417	20585	24619	27286			
					0383	7302	0725	12001	13001	15417	20585	24619				
					0383			12001	13001	15417	20585	24617	30415	29423		
323	Leather and products				143			100	277	322	559	748	703			
					143	123	172	100	277	322	559	748				
					143			100	277	322	559	748	815	653		
324	Footwear				143			240	201	290	459	533	771			
					143	143	167	240	201	290	459	533				
					143			240	201	290	459	533	821	598		
331	Wood products				310			300	430	540	847	689	1214			
					310	315	340	300	430	540	847	689				
					310			300	430	540	847	689	1292	1042		

COUNTRY: HONG KONG

Gross Output (To Producers' Prices)

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures				200			205	327	482	685	688	957		
					200	251	258	205	327	482	685	688			
					200			205	327	482	685	688	1070	893	
341	Paper and products				400			507	500	851	1156	1661	1692		
					400	400	450	507	500	851	1156	1661			
					400			507	500	851	1156	1661	1826	1774	
342	Printing, publishing				828			1158	1307	1734	2369	2994	4232		
					828	800	1000	1158	1307	1734	2369	2994			
					828			1158	1307	1734	2369	2994	4588	4353	
351	Industrial chemicals				71			185	303	405	767	820	961		
					71	112	115	185	303	405	767	820			
					1/433			185	303	k/402	767	820	1021	k/926	
352	Other chemical products				302			472	504	674	773	971	1240		
					302	370	408	472	504	674	773	971			
								472	504	1/010	773	971	1270	1/1014	
353	Petroleum refineries														
354	Petroleum, coal products														
355	Rubber products				180			203	248	212	328	394	352		
					180	222	220	203	248	212	328	394			
					180			203	248	212	328	394	389	441	



COUNTRY: HONG KONG

Gross Output (In Producers' Prices)

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
356	Plastic products n.e.c.				2433			3534	3689	4587	6536	7207	8540			
					2433	2231	2607	3534	3689	4587	6536	7207				
					2433				3534	3689	4587	6536	7207	9351	9098	
361	Pottery, china etc.				11			10	25	28	35	48	30			
					11	12	15	10	25	28	35	48				
					1/ 222			10	25	28	35	48	34	49		
362	Glass and products				70			77	74	146	141	128	197			
					70	54	66	77	74	146	141	128				
								77	74	146	141	128	223	220		
369	Non-metal products n.e.c.				131			270	528	724	819	1313	1604			
					131	160	100	270	528	724	819	1313				
								270	528	724	819	1313	1654	1594		
371	Iron and steel				373			332	410	634	727	828	970			
					373	338	305	332	410	634	727	828				
					1/ 503			332	410	634	727	828	1005	891		
372	Non-ferrous metals				120			341	305	408	612	711	715			
					120	154	198	341	305	408	612	711				
								341	305	408	612	711	728	773		
381	Metal products				1736			2874	3104	4169	5925	8151	7963			
					1736	1837	2217	2874	3104	4169	5925	8151				
					1736			2874	3104	4169	5925	8151	8729	7952		
382	Machinery n.e.c.				275			625	610	896	1180	1483	1731			
					275	348	481	625	610	896	1180	1483				
					305			625	610	896	1180	1483	1918	1892		

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
383	Electrical machinery				3232			6194	7640	8999	15083	18168	23055			
					3232	3488	4216	6194	7640	8999	15083	18168				
					3142			6194	7640	8999	15083	18168	25173	24370		
384	Transport equipment				599			764	688	901	1325	1513	1783			
					599	628	606	764	688	901	1325	1513				
					599			764	688	901	1325	1513	1806	2264		
385	Professional goods				408			1700	2474	3916	6350	8631	10433			
					408	630	981	1700	2474	3916	6350	8631				
					408			1700	2427	3916	6350	8631	11571	10533		
390	Other industries				995			1657	1796	2312	2964	3653	4251			
					995	917	1225	1657	1796	2312	2964	3653				
					1452			1657	1796	2312	2964	3653	4727	4712		

Special Notes on Each Data Source:

## 1) UN

- a. In December of the year indicated.
- b. Manufacturing: establishment with power-driven.
- c. In the fourth quarter of the year indicated.
- d. Excluding payments in kind.
- e. Reporting establishment with 10 or more persons engaged.
- f. Including payments in kind and employers' contributions to social security fund and cost of welfare services.
- g. ---

## 2) NA

- h. Major group 351 is including 352.
- i. Major group 361 is including 362 and 369.
- j. Major group 371 is including 372.
- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

- 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY: HONG KONG

Wages and Salaries

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
					d/ 117			d/ 150	d/ 170	d/ 212	d/ 265	d/ 344	d/n/ 374	n/ 540	
311/2	Food products UN UN1M NA1 NA2				m/100			150	170	212	265	344	430	540	
313	Beverages				30			57	73	02	115	139	170		
					m/30			57	73	02	115	139	188	219	
314	Tobacco				10			14	10	10	20	25	32		
					m/10			14	10	10	20	25	35	46	
321	Textiles				1210		m/F/1280	1000	1557	1815	2316	2644	2797		
					m/1180			1000	1557	1815	2316	2644	3211	3110	
322	Wearing apparel				1200		m/F/2041	2710	2002	3427	4243	5250	5662		
					m/1217			2710	2002	3427	4243	5250	6814	7214	
323	Leather and products				23			35	52	00	87	125	104		
					m/10			35	52	00	87	125	134	123	
324	Footwear				37			08	58	82	121	150	211		
					m/30			08	58	82	121	150	240	197	
331	Wood products				50			05	77	00	111	107	158		
					m/37			05	77	00	111	107	189	162	

COUNTRY: HONG KONG

## Wages and Salaries

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures				78			05	105	130	161	172	234		
					m/51			05	105	130	161	172	280	216	
341	Paper and products				71			00	100	130	189	275	289		
					m/50			00	100	130	189	275	314	328	
342	Printing, publishing				101			204	314	384	522	665	838		
					m/100			204	314	384	522	665	968	1012	
351	Industrial chemicals				11			10	24	35	37	45	53		
					n/10			10	20	n/12	37	45	n/246	264	
352	Other chemical products				51			02	74	80	106	121	162		
					n/51			02	74		106	121			
353	Petroleum refineries														
354	Petroleum, coal products														
355	Rubber products				40			05	57	40	78	89	82		
					m/41			05	57	40	78	89	95	120	

COUNTRY:HONG KONG

## Wages and Salaries

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.				502			702	875	1052	1312	1420	1670		
					m/510			702	875	1052	1312	1420	1991	2026	
361	Pottery, china etc.				1			7	8	9	13	17	12		
					1/m/34			7	8	9	13	17	1/143	156	
362	Glass and products				23			17	17	31	32	25	39		
369	Non-metal products n.e.c.				12			18	27	30	49	55	76		
								18	27	30	49	55			
371	Iron and steel				20			37	40	53	45	73	109		
					1/m/30			37	40	53	45	73	j/106	195	
372	Non-ferrous metals				12			30	30	30	48	63	66		
								30	30	30	48	63			
381	Metal products				422			632	711	915	1222	1684	1645		
					m/361			632	711	915	1222	1584	1943	1800	
382	Machinery n.e.c.				84			107	104	223	295	383	369		
					m/ 02			107	104	223	295	383	443	453	

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery				561			898	1148	1279	1927	2395	2550		
					m/ 542			898	1148	1279	1927	2395	2950	3139	
384	Transport equipment				248			294	299	332	429	553	633		
					m/ 242			294	299	332	429	553	707	849	
385	Professional goods				91			217	302	447	692	998	1138		
					m/ 86			217	302	447	692	998	1328	1271	
390	Other industries				181			284	330	402	499	596	717		
					m/ 160			284	330	402	499	596	962	897	

Special Notes on Each Data Source:

## 1) UN

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- b. Manufacturing: establishment with power-driven.
- c. In the fourth quarter of the year indicated.
- d. Excluding payments in kind.
- e. Reporting establishment with 10 or more persons engaged.
- f. Including payments in kind and employers' contributions to social security fund and cost of welfare services.
- g. ---

## 2) NA

- h. Major group 351 is including 352.
- i. Major group 361 is including 362 and 369.
- j. Major group 371 is including 372.
- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

## 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY: HONG CONG

Value Added (In Producers' Prices)

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN UNIDO NA1 NA2			275			381	441	537	672	802	893		
					275	316	350	381	441	537	672	802			
					275			381	441	537	672	802	937	1251	
313	Beverages				158			258	332	348	418	491	587		
					158	171	191	258	332	348	418	491			
					158			258	332	348	418	491	535	606	
314	Tobacco				63			201	287	285	361	402	424		
					63	136	180	201	287	285	361	402			
					63			230	287	285	361	402	267	323	
321	Textiles				2051	e/ 2111	e/ 2615	3322	2813	3578	4568	5125	5202		
					2051	2111	2615	3322	2813	3578	4568	5125			
					2051			3322	2813	3578	4568	5125	5610	5591	
322	Wearing apparel				2150	e/ 2425	e/ 3350	4507	4785	5503	7169	8686	9658		
					2150	2425	3350	4507	4785	5503	7169	8686			
					2150			4507	4785	5503	7169	8686	10825	11411	
323	Leather and products				38			62	87	102	155	216	187		
					38	36	54	62	87	102	155	216			
					38			62	87	102	155	216	213	204	
324	Footwear				63			110	93	128	190	236	304		
					63	64	75	110	93	128	190	236			
					63			110	93	128	190	236	324	280	
331	Wood products				115			130	103	195	223	222	359		
					115	117	132	130	103	195	223	222			
					115			130	103	195	223	222	387	304	

COUNTRY:HONG KONG

Value Added (In Producers' Prices)

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures				131			152	168	219	288	307	415		
					131	125	130	152	168	219	288	307			
					131			152	168	219	288	307	468	390	
341	Paper and products				154			203	208	283	374	549	543		
					154	135	152	203	208	283	374	549			
					154			203	208	283	374	549	587	631	
342	Printing, publishing				415			549	605	813	1141	1441	1982		
					415	425	488	549	605	813	1141	1441			
					415			549	605	813	1141	1441	2133	2085	
351	Industrial chemicals				30			61	93	142	189	197	198		
					30	40	41	61	93	142	189	197			
					1/ 178			61	93	k/ 140	189	197	215	k/ 220	
352	Other chemical products				142			194	221	283	315	381	467		
					142	149	102	194	221	283	315	381			
								194	221	1/ 242	315	381	480	1/ 407	
353	Petroleum refineries														
354	Petroleum, coal products														
355	Rubber products				78			109	94	78	134	143	135		
					78	93	94	109	94	78	134	143			
					78			109	94	78	134	143	141	176	



COUNTRY: HONG KONG

Value Added (in Producers' Prices)

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
356	Plastic products n.e.c.				008			1443	1500	1800	2503	2800	3341			
					008	020	1080	1443	1500	1800	2503	2800				
					008			1443	1500	1800	2503	2800	3659	3645		
361	Pottery, china etc.				7			10	12	14	21	27	17			
					7	7	8	10	12	14	21	27				
					1/ 77			10	12	14	21	27	19	25		
362	Glass and products				34			20	30	52	59	49	78			
					34	22	24	20	30	52	59	49				
								20	30	52	59	49	89	80		
369	Non-metal products n.e.c.				35			74	137	210	248	274	340			
					35	44	53	74	137	210	248	274				
								74	137	210	248	274	348	290		
371	Iron and steel				08			112	03	161	134	145	200			
					08	00	05	112	03	161	134	145				
					1/ 133			112	03	161	134	145	214	170		
372	Non-ferrous metals				34			00	03	83	187	163	157			
					34	41	50	00	03	83	187	163				
								00	03	83	187	163	161	193		
381	Metal products				770			1210	1200	1684	2289	3177	3088			
					770	800	940	1210	1200	1684	2289	3177				
					770			1210	1200	1684	2289	3177	3381	3134		
382	Machinery n.e.c.				143			303	304	415	542	696	743			
					143	170	238	303	304	415	542	696				
					103			303	304	415	542	696	842	807		

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
383	Electrical machinery				1024			1860	2388	2704	4270	5158	6773			
					1024	1087	1302	1860	2388	2704	4270	5158				
					1004			1860	2388	2704	4270	5157	7397	7527		
384	Transport equipment				367			479	463	469	708	874	1080			
					367	389	378	479	463	469	708	874				
					367			479	463	469	708	874	1095	1383		
385	Professional goods				154			447	601	862	1317	1802	2120			
					154	198	277	447	601	862	1317	1802				
					154			447	601	862	1317	1802	2349	2179		
390	Other industries				357			631	688	819	992	1246	1450			
					357	339	461	631	688	819	992	1246				
					357			631	688	819	992	1246	1612	1539		

Special Notes on Each Data Source:

## 1) UN

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- e. Reporting establishment with 10 or more persons engaged.
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- g. ---

## 2) NA

- h. Major group 351 is including 352.
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- j. Major group 371 is including 372.
- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

- 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY:HONG KONG

## Gross Fixed Capital Formation

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN			12			45	90	103	91	91	85		
		UN (DU)			12			45	90	103	91	91			
		NA1			12			45	90	103	91	91	91	135	
		NA2													
313	Beverages				5			33	81	51	67	100	97		
					5			33	81	51	67	100			
					5			33	81	51	67	100	98	192	
314	Tobacco				12			3	1	6	13	33	26		
					12			3	1	6	13	33			
					12			3	1	6	13	33	26	7	
321	Textiles				307	e/ 255	e/ 341	704	343	464	642	731	507		
					307	255	341	704	343	464	642	731			
					307			704	343	464	642	731	557	312	
322	Wearing apparel				78	e/ 175	e/ 208	302	301	510	477	638	872		
					78	175	208	302	301	510	477	638			
					78			302	301	510	477	638	987	589	
323	Leather and products				1			3	8	9	18	29	6		
					1			3	8	9	18	29			
					1			3	8	9	18	29	7	0.4	
324	Footwear				1			6	5	11	7	17	24		
					1			6	5	11	7	17			
					1			6	5	11	7	17	26	17	
331	Wood products				1			5	9	17	9	9	17		
					1			5	9	17	9	9			
					1			5	9	17	9	9	18	12	

COUNTRY:HONG KONG

## Gross Fixed Capital Formation

Unit: MILION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures				0			8	11	10	14	19	33		
					0			8	11	10	14	19			
					0			8	11	10	14	19	36	12	
341	Paper and products				11			18	25	51	57	86	80		
					11			18	25	51	57	86			
					11			18	25	51	57	86	85	53	
342	Printing, publishing				53			72	135	150	229	230	328		
					53			72	135	150	229	239			
					53			72	135	150	229	239	361	314	
351	Industrial chemicals				2			30	23	18	47	47	64		
					2			30	23	18	47	47			
					h/12			30	23	k/18	47	47	h/119	h/113	
352	Other chemical products				10			22	14	-3	22	25	53		
					10			22	14	-3	22	25			
								22	14	1/ -4	22	25			
353	Petroleum refineries														
354	Petroleum, coal products														
355	Rubber products				3			0	14	11	13	13	6		
					3			0	14	11	13	13			
					3			0	14	11	13	13	7	14	

COUNTRY:HONG KONG

Gross Fixed Capital Formation

Unit: MILLION HK DOLLARS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.				89			224	278	266	370	423	320		
					89			224	278	266	370	423			
					89			224	278	266	370	423	350	410	
381	Pottery, china etc.							1	1		2	1			
								1	1		2	1			
					1/7			1	1	0.4	2	1	1/255	1/228	
382	Glass and products				2			1	4	3	6	19	7		
					2			1	4	3	6	19			
								1	4	3	6	19			
389	Non-metal products n.e.c.				5			20	20	52	105	170	247		
					5			20	20	52	105	170			
								20	20	52	105	170			
371	Iron and steel				5			10	10	37	29	41	15		
					5			10	10	37	29	41			
					1/15			10	10	37	29	41	1/22	1/55	
372	Non-ferrous metals				9			5	17	18	1	21	7		
					9			5	17	18	1	21			
								5	17	18	1	21			
381	Metal products				70			120	105	211	513	444	387		
					70			120	105	211	513	444			
					70			120	105	211	513	444	399	361	
382	Machinery n.e.c				11			43	34	45	82	116	78		
					11			43	34	45	82	116			
					13			43	34	45	82	116	85	69	

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery				80			233	248	342	501	620	680		
					80			233	248	342	501	620			
					80			233	248	342	501	620	729	771	
384	Transport equipment				17			32	86	76	286	160	179		
					17			32	86	76	286	160			
					17			32	86	76	286	160	179	199	
385	Professional goods				17			62	106	120	200	216	187		
					17			62	106	120	200	216			
					17			62	106	120	200	216	214	196	
390	Other industries				14			45	61	96	74	96	97		
					14			45	61	96	74	96			
					14			45	61	96	74	96	107	78	

Special Notes on Each Data Source:

## 1) UN

- a. In December of the year indicated.
- b. Manufacturing establishment with power-driven.
- c. In the four<sup>th</sup> quarter of the year indicated.
- d. Excluding payments in kind.
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- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

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COUNTRY: HONG KONG

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UN1DC NA1 NA2	69	82	89	100	102	100	103	105	107	115	123	120		
313	Beverages	64	64	68	81	81	100	122	135	149	154	162	170		
314	Tobacco	103	126	131	91	104	100	88	92	88	99	120	147		
321	Textiles	85	80	67	70	85	100	113	97	98	107	95	75		
322	Wearing apparel	51	69	95	90	88	100	145							
323	Leather and products	25	48	89	108	98	100	131							
324	Footwear	61	74	90	108	98	100	130							
331	Wood products	95	107	119	131	109	100	116							

COUNTRY: HONG KONG

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	69	76	96	100	92	100	117							
341	Paper and products	66	82	103	112	101	100	117							
342	Pulp, paper etc.	78	81	85	119	105	100	116							
351	Industrial chemicals	84	94	100	98	89	100	145							
352	Other chemical products	68	78	89	113	102	100	114							
353	Petroleum refineries	100	100	100	100	100	100	100	100	100	100	100	100		
354	Petroleum, coal products	100	100	100	100	100	100	100	100	100	100	100	100		
355	Rubber products	50	57	66	121	109	100	104							



COUNTRY:HONG KONG

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	79	90	102	105	102	100	108							
361	Pottery, china etc.	52	74	108	108	98	100	131							
362	Glass and products	130	134	136	145	134	100	95							
369	Non-metal products n.e.c.	75	89	71	77	99	100	133	179	215	223	259	264		
371	Iron and steel	94	112	129	115	103	100	114							
372	Non-ferrous metals	39	43	48	63	76	100	128							
381	Metal products	68	70	73	108	98	100	130							
382	Machinery n.e.c.	49	48	46	78	82	100	151							

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	57	67	91	102	101	100	129	136	105	104	124	114		
384	Transport equipment	76	84	92	119	105	100	115							
385	Professional goods	30	36	44	65	75	100	159							
390	Other industries	73	85	99	101	94	100	136							

Special Notes on Each Data Source:

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- a. In December of the year indicated.
- b. Manufacturing: establishment with power-driven.
- c. In the fourth quarter of the year indicated.
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- e. Reporting establishment with 10 or more persons engaged.
- f. Including payments in kind and employers' contributions to social security fund and cost of welfare services.
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- k. Excluding group 3512 (Manufacturing of fertilizers and pesticides)
- l. Excluding group 3524 (Manufacturing of candle)
- m. Excluding establishments with less than 10 persons engaged.
- n. Labour Cost (e.g. Including payments in kind, welfare costs and payments to outworkers)

- 3) Letter a to n cited above put on a year in the tables indicates a general footnote applicable to all commodity classifications for the year concerned.

III. Convertors between ISIC and National Industrial Classification

<u>ISIC</u>	<u>NSIC</u>	<u>NSIC Sector</u>
31		MANUFACTURE OF FOOD, BEVERAGES AND TOBACCO
311A	311A	FOOD MANUFACTURING
3111	3111	SLAUGHTERING, PREPARING AND PRESERVING MEAT
3112	3112	MANUFACTURE OF DAIRY PRODUCTS
3113	3113	CANNING AND PRESERVING OF FRUITS AND VEGETABLES
3114	3114	CANNING, PRESERVING & PROCESSING OF FISH AND CRUSTACEANS
3115	3115	MANUFACTURE OF VEGETABLE AND ANIMAL OILS & FATS EX. LARD
3116	3116	GRAIN MILL PRODUCTS
3117	3117	MANUFACTURE OF BAKERY PRODUCTS
3118	3118	SUGAR FACTORIES AND REFINERIES
3119	3119	MANUFACTURE OF COCOA, CHOCOLATE AND SUGAR CONFECTIONERY
3121	3121	MANUFACTURE OF FOOD PRODUCTS NOT ELSEWHERE CLASSIFIED
3122	3122	MANUFACTURE OF PREPARED ANIMAL FEEDS
313	313	BEVERAGE INDUSTRIES
3131	3131	DISTILLING, RECTIFYING AND BLENDING SPIRITS
3132	-	WINE INDUSTRIES
3133	3133	BREWERIES AND MANUFACTURE OF MALT
3134	3134	SOFT DRINKS AND CARBONATED WATERS INDUSTRIES
314	314	TOBACCO MANUFACTURES
3140	3140	TOBACCO MANUFACTURES
32		TEXTILE, WEARING APPAREL AND LEATHER INDUSTRIES
321	325A	MANUFACTURE OF TEXTILES (INCLUDING KNITTING)
3211	-	SPINNING, WEAVING AND FINISHING TEXTILES
3211	3250	SPINNING-COTTON
3211	3251	SPINNING-WOOL
3211	3252	SPINNING-MAN-MADE FIBRES
3211	3258	TEXTURIZING
3211	3259	SPINNING-OTHERS
3211	3260	WEAVING-COTTON
3211	3261	WEAVING WOOL
3211	3262	WEAVING-SILK
3211	3263	WEAVING-LAPLES
3211	3268	WEAVING-MAN-MADE FIBRES
3211	3269	WEAVING-OTHERS
3211	3280	BLEACHING & DYEING
3211	3281	TEXTILE, STENCILLING & PRINTING
3211	3282	TEXTILE, FINISHING-OTHERS
3212	3292	MANUFACTURE OF MADE-UP TEXTILES GOODS EXCEPT WEARING APPAREL
3213	327	KNITTING MILLS
3213	3270	KNITTING OF FABRICS -COTTON
3213	3271	KNITTING OF FABRICS -WOOL
3213	3272	KNITTING OF FABRICS -OTHERS
3213	3273	MANUFACTURE OF GAS MANTLES
3213	3274	MANUFACTURE OF HOSIERY
3213	3275	KNIT OUTERWEAR MILLS
3213	3276	KNIT UNDERWEAR MILLS
3214	3294	MANUFACTURE OF CARPETS AND RUGS
3215	3295	CORDAGE, ROPE AND TWINE INDUSTRIES
3219	3296	MANUFACTURE OF THREADS
3219	3297	MANUFACTURE OF EMERICIDERIES
3219	3299	MANUFACTURE OF TEXTILE NOT ELSEWHERE CLASSIFIED
322	320A	MANUFACTURE OF WEARING APPAREL, EXCEPT KNITWEAR & FOOTWEAR
3220	-	MANUFACTURE OF WEARING APPAREL, EXCEPT FOOTWEAR

<u>ISIC</u>	<u>NSIC</u>	<u>NSIC Sector</u>
3220	3201	MNF. OF OUTER GARMENTS EX. LEATHER & FUR CLOTHING & INFANTS
3220	3202	MANUFACTURE OF UNDER GARMENTS AND NIGHT GARMENTS
3220	3209	MNF. OF LEATHER & FUR CLOTHING, INFANTS' WEAR & GARMENTS NEC
3220	3222	MANUFACTURE OF GLOVES, EXCEPT RUBBER AND PLASTIC GLOVES
3220	3223	MANUFACTURE OF HANDBAGS, EXCEPT RATTAN & STRAW HANDBAGS
3220	3226	MANUFACTURE OF HEADGEAR
3220	3229	MANUFACTURE OF WEARING APPAREL N.E.C.
323	323	MNF. OF LEATHER PRODUCTS, EX. FOOTWEAR & WEARING APPAREL
3231	3231	TANNERIES AND LEATHER FINISHING
3232	-	FUR DRESSING AND DYEING INDUSTRIES
3233	3233	MNF. OF PRODUCTS OF LEATHER & LEATHER SUBSTITUTE
324	324	MNF. OF FOOTWEAR, EX. RUBBER, PLASTIC & WOODEN FOOTWEAR
3240	3240	MNF. OF FOOTWEAR, EX. VULCANIZED OR MOLDED RUBBER, PLASTIC OR WOOD
33		MANUFACTURE OF WOOD & WOOD PRODUCTS, INCLUDING FURNITURE
331	331	MANUFACTURE OF WOOD & CORK PRODUCTS, EXCEPT FURNITURE
3311	3311	SAWMILLS, PLANING AND OTHER WOOD MILLS
3312	-	MANUFACTURE OF WOODEN & CANE CONTAINERS & SMALL CANE WARE
3312	3313	MANUFACTURE OF TRUNKS OF CASES
3312	3314	MANUFACTURE OF WOODEN CONTAINERS & BARRELS
3312	3317	MANUFACTURE OF RATTAN ARTICLES
3312	3318	MANUFACTURE OF CANE WARES & STRAW WARES
3319	3315	MANUFACTURE OF WOODEN ARTICLES
3319	3316	MANUFACTURE OF WOODEN ICYS
3319	3319	MANUFACTURE OF WOOD & CORK PRODUCTS NOT ELSEWHERE CLASSIFIED
332	332	MNF. OF FURNITURE AND FIXTURES, EXCEPT PRIMARILY OF METAL
3320	-	MNF. OF FURNITURE AND FIXTURES, EXCEPT PRIMARILY OF METAL
3320	3321	MANUFACTURE OF WOODEN FURNITURE AND FIXTURES
3320	3322	MANUFACTURE OF RATTAN FURNITURE
3320	3329	MANUFACTURE OF FURNITURE & FIXTURES N.E.C.
34		MANUFACTURE OF PAPER & PAPER PRODUCTS; PRINTING & PUBLISHING
341	341	MANUFACTURE OF PAPER AND PAPER PRODUCTS
3411	3411	MANUFACTURE OF PULP, PAPER AND PAPERBOARD
3412	3412	MANUFACTURE OF CONTAINERS AND BOXES OF PAPER AND PAPERBOARD
3419	3419	MANUFACTURE OF PULP, PAPER & PAPERBOARD ARTICLES N.E.C.
342	342	PRINTING, PUBLISHING AND ALLIED INDUSTRIES
3420	-	PRINTING, PUBLISHING AND ALLIED INDUSTRIES
3420	3421	NEWSPAPER PRINTING
3420	3422	JOB PRINTING
3420	3429	OTHER PRINTING, PUBLISHING & ALLIED INDUSTRIES
35		MNF. OF CHEMICALS, & OF CHEMICALS, PETROLEUM, COAL, RUBBER, PLASTIC
351	351A	MNF. OF CHEMICALS & CHEMICAL PRODUCTS
3511	3511	MANUFACTURE OF BASIC INDUSTRIAL CHEMICALS EXCEPT FERTILIZERS
3512	3512	MANUFACTURE OF FERTILIZERS AND PESTICIDES
3513	3513	MNF. OF SYNTHETIC RUBBER, PLASTIC MATERIALS & MAN-MADE FIBRES
352	-	MANUFACTURE OF OTHER CHEMICAL PRODUCTS
3521	3521	MANUFACTURE OF PAINTS, VARNISHES AND LACQUERS
3522	3522	MANUFACTURE OF DRUGS AND MEDICINES
3523	3523	MNF. OF SOAP & CLEANING PREPARATIONS, PERFUMES & OTHER
3529	3524	MANUFACTURE OF CANDLES
3529	3529	MANUFACTURE OF CHEMICAL PRODUCTS NOT ELSEWHERE CLASSIFIED
353	-	PETROLEUM REFINERIES
3530	-	PETROLEUM REFINERIES
354	-	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM & COAL
3540	-	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM & COAL
355	355	MANUFACTURE OF RUBBER PRODUCTS

<u>ISIC</u>	<u>NSIC</u>	<u>NSIC Sector</u>
3551	3551	TYRE RETREADING & MNF. OF RUBBER INNER TUBES
3559	3552	MANUFACTURE OF RUBBER FOOTWEAR
3559	3553	MANUFACTURE OF RUBBER TOYS
3559	3559	MANUFACTURE OF RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED
356	356	MANUFACTURE OF PLASTIC PRODUCTS
3560	3561	MANUFACTURE OF PLASTIC FLOWERS & FOLIAGE
3560	3562	MANUFACTURE OF PLASTIC TOYS
3560	3569	MANUFACTURE OF PLASTIC PRODUCTS NOT ELSEWHERE CLASSIFIED
36	-	MNF. OF NON-METALIC MINERAL PRODUCTS, EXCEPT PETROLEUM & COAL
361	-	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE
	361A	MNF. OF NON-METALIC MINERAL PRODUCTS, EXCEPT PETROLEUM & COAL
3610	3610	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE
362	-	MANUFACTURE OF GLASS AND GLASS PRODUCTS
3620	3620	MANUFACTURE OF GLASS AND GLASS PRODUCTS
369	-	MANUFACTURE OF OTHER NON-METALIC MINERAL PRODUCTS
3691	3691	MANUFACTURE OF STRUCTURAL CLAY PRODUCTS
3692	3692	MANUFACTURE OF CEMENT, LIME AND PLASTER
3699	3699	MANUFACTURE OF NON-METALIC MINERAL PRODUCTS N.E.C.
37	-	BASIC METAL INDUSTRIES
371	-	IRON AND STEEL BASIC INDUSTRIES
	371A	BASIC METAL INDUSTRIES
3710	3710	IRON AND STEEL BASIC INDUSTRIES
3719	3801	MANUFACTURE OF METAL TOYS
3719	3802	MANUFACTURE OF NAILS, SCREWS & HINGES
372	-	NON-FERROUS METAL BASIC INDUSTRIES
3720	-	NON-FERROUS METAL BASIC INDUSTRIES
3720	3721	NON-FERROUS METAL BASIC INDUSTRIES - COPPER
3720	3722	NON-FERROUS METAL BASIC INDUSTRIES - ALUMINIUM
3720	3723	NON-FERROUS METAL BASIC INDUSTRIES - OTHERS
38	-	MNF. OF FABRICATED METAL PRODUCTS, MACHINERY & EQUIPMENT
381	380A	MNF. OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY & EQUIPMENT
3811	-	MNF. OF CUTLERY, HAND TOOLS & GENERAL HARDWARE
3811	3810	MANUFACTURE OF CUTLERY
3811	3811	MANUFACTURE OF HAND TOOLS AND GENERAL HARDWARE
3812	3812	MANUFACTURE OF FURNITURE AND FIXTURES PRIMARILY OF METAL
3813	3813	MANUFACTURE OF STRUCTURAL METAL PRODUCTS
3819	3803	MNF. OF TIN CANS & DOMESTIC UTENSILS OF METAL, EXC. ALUMINIUM
3819	3804	MANUFACTURE OF VACUUM FLASKS
3819	3814	MANUFACTURE OF ALUMINIUM UTENSILS & ARTICLES
3819	3815	MNF. OF PRESSURE & KEROSENE STOVES & LANTERNS & ACCESSORIES
3819	3816	MANUFACTURE OF TORCHES & PARTS EXCEPT TORCH BULBS
3819	3817	MANUFACTURE OF METAL WRIST WATCH BANDS
3819	3818	BUFFING & POLISHING & ELECTRO-PLATING
3819	3819	MNF. OF FABRICATED METAL PRODUCTS EX. MACHINERY & EQUIPMENT NEC
382	382	MANUFACTURE OF MACHINERY EXCEPT ELECTRICAL
3821	3821	MANUFACTURE OF ENGINES AND TURBINES
3822	3822	MANUFACTURE OF AGRICULTURAL MACHINERY AND EQUIPMENT
3823	3823	MANUFACTURE OF METAL AND WOOD WORKING MACHINERY
3824	3824	MNF. OF SPECIAL INDUSTRIAL MACHINERY & EQUIPMENT
3825	3825	MNF. OF OFFICE MACHINERY & EQUIPMENT, EX. COMPUTING & ACCOUNTING
3829	3829	MACHINERY AND EQUIPMENT EXCEPT ELECTRICAL N.E.C.
383	383	MNF. OF CONSUMER ELECTRICAL & ELECTRONIC PRODUCTS
383	384	MNF. OF ELECTRICAL & ELECTRONIC PARTS, ACCESSORIES & MACHINERY
3831	3840	MANUFACTURE OF ELECTRICAL INDUSTRIAL MACHINERY AND APPARATUS
3832	-	MNF. OF RADIO, TELEVISION & COMMUNICATION EQUIPMENT & APPARATUS
3832	3832	MANUFACTURE OF TRANSISTORIZED RADIOS
3832	3834	MNF. OF TELEVISION RECEIVERS & COMMUNICATION EQUIPMENT

<u>ISIC</u>	<u>NSIC</u>	<u>NSIC Sector</u>
3833	3833	MANUFACTURE OF ELECTRICAL APPLIANCE & HOUSEWARES
3839	-	MNF. OF ELECTRICAL APPARATUS & SUPPLIES N.E.C.
3839	3831	MANUFACTURE ELECTRONIC TCYS
3839	3835	MNF. OF SOUND REPRODUCING & RECORDING EQUIPMENT & APPARATUS
3839	3838	MANUFACTURE OF COMPUTING MACHINERY & EQUIPMENT
3839	3839	MNF. OF CONSUMER ELECTRICAL AND ELECTRONIC PRODUCTS N.E.C.
3839	3841	MANUFACTURE OF ELECTRONIC INDUSTRIAL APPARATUS
3839	3844	MANUFACTURE OF ELECTRONIC PARTS & COMPONENTS
3839	3846	MANUFACTURE OF DRY BATTERIES
3839	3847	MANUFACTURE OF TUBES & ELECTRIC BULBS & TUBES
3839	3849	MANUFACTURE OF ELECTRICAL ACCESSORIES N.E.C.
384	389	MANUFACTURE OF TRANSPORT EQUIPMENT
3841	-	SHIP BUILDING AND REPAIRING
3841	3890	SHIP BUILDING AND REPAIRING - DOCKYARDS
3841	3891	SHIP BUILDING AND REPAIRING - SHIPYARDS
3842	3892	MANUFACTURE OF RAILROAD EQUIPMENT
3843	3893	MANUFACTURE OF MOTOR VEHICLES
3844	3894	MANUFACTURE OF MOTORCYCLES AND BICYCLES
3845	3895	MANUFACTURE OF AIRCRAFT
3849	3896	SHIP BREAKING
3849	3897	MOTOR VEHICLE BREAKING
3849	3899	MANUFACTURE OF TRANSPORT EQUIPMENT NOT ELSEWHERE CLASSIFIED
385	385	MNF. OF PROFESSIONAL & SCIENTIFIC, & MEASURING & CONTROLLING
3851	3851	MNF. OF PROFESSIONAL & SCIENTIFIC, & MEASURING & CONTROLLING
3852	3852	MANUFACTURE OF PHOTOGRAPHIC AND OPTICAL GOODS
3853	-	MANUFACTURE OF WATCHES AND CLOCKS
3853	3853	MANUFACTURE OF WATCHES AND CLOCKS - MECHANICAL
3853	3854	MANUFACTURE OF WATCHES AND CLOCKS - ELECTRONIC
39	-	OTHER MANUFACTURING INDUSTRIES
390	390	OTHER MANUFACTURING INDUSTRIES
3901	3901	MANUFACTURE OF JEWELLERY AND RELATED ARTICLES
3902	3902	MANUFACTURE OF MUSICAL INSTRUMENTS
3903	3903	MANUFACTURE OF SPORTING AND ATHLETIC GOODS
3909	3900	MANUFACTURE OF TOYS N.E.C.
3909	3904	MANUFACTURE OF HATS & HAIR PRODUCTS
3909	3905	MANUFACTURE OF ENAMEL WARE
3909	3906	MANUFACTURE OF ARTIFICIAL PEARLS & IMITATION JEWELLERY
3909	3907	MANUFACTURE OF BUTTONS & STUDS
3909	3908	MANUFACTURE OF UMBRELLAS
3909	3909	MANUFACTURING INDUSTRIES NOT ELSEWHERE CLASSIFIED

## ISIC - NSIC Converter (3-digit code) by Year

No. /

UN	1973	1976 - 1979	1980 -
311/312	Food manufacturing	" (same as UN)	" (same as UN)
313	Beverage industries	"	"
314	Tobacco manufactures	"	"
322	Manufacturing of wearing apparel, ex. footwear	<del>322</del> 320: Manufacture of wearing apparel, ex. footwear	320&322: Manufacture of wearing apparel, ex. knitwear & footwear
321	Manufacture of textiles	321, 325-329: Manufacture of textile	325-329: Manufacture of textile (incl. knitting)
323	Manufacture of leather & products of leather, leather substitute & fur, ex. footwear and wearing apparel	Manufacture of leather & leather products, ex. footwear and wearing apparel	"
324	Manufacture of footwear, ex. vulcanized or moulded rubber or plastic footwear	Manufacture of footwear, ex. rubber, plastic & wooden footwear	"
331	Manufacture of wood & wood & cork products, ex. furniture	Manufacture of wood and cork products, ex. furniture	"
332	Manufacture of furniture and fixtures, ex. primarily of metal	"	"
341	Manufacture of paper & paper board	"	"
342	Printing, publishing & allied industries	"	"
351	Manufacture of industrial chemicals	351-352: Manufacture of chemicals and chemical products	"
352	Manufacture of other chemical products		
353	Petroleum refineries		



UN	1973	1976 - 1979	1980 -
354 Manufacture of miscellaneous products of petroleum and coal	-	-	-
355 Manufacture of rubber products	"	"	"
356 Manufacture of plastic products n.e.c.	Manufacture of plastic products	"	"
361 Manufacture of pottery, china and earthenware	361-369:Manufacture of non-metallic mineral products ex. products of petroleum & coal	"	"
362 Manufacture of glass and glass products			
369 Manufacture of other non-metallic mineral products			
371 Iron and steel basic industries	371-372:Basic metal industries	"	"
372 Non-ferrous metal basic industries			
381 Manufacture of fabricated metal products ex. machinery & equipment	380-381:Manufacture of fabricated metal products ex. machinery & equipment	"	"
382 Manufacture of machinery ex. electrical	"	"	"
383 Manufacture of electrical machinery, apparatus, appliances & supplies	"	Manufacture of consumer electrical and electronic products	"
384 Manufacture of transport equipment	"	"	Manufacture of electrical and electronic parts, accessories & machinery
385 Manufacture of professional and scientific & measuring & controlling equipment n.e.c.	Manufacture of professional & scientific, measuring & controlling equipment n.e.c., & of photographic & optical goods	"	"

UN	1973	1976 - 1979	1980 -
-	-	389:Manufacture of electrical & electronic parts, accessories & machinery	389:Manufacture of transport equipment
390 Other Manufacturing industries	"	"	"

#### IV. Commodity Balance Sheets

##### 1. Explanatory Notes

##### 2. Statistical Tables

- 2. 1 Lard
- 2. 2 Fish, Frozen
- 2. 3 Fish, Salted, Dried or Smoked
- 2. 4 Prepared Animal Feeds
- 2. 5 Beer
- 2. 6 Cigarettes
- 2. 7 Wool Yarn, Pure & Mixed
- 2. 8 Cotton Yarn, Pure & Mixed
- 2. 9 Cotton Woven Fabrics
- 2.10 Cotton/Man-Made Fibre Piece-Goods
- 2.11 Silk Fabrics
- 2.12 Cotton Towelling
- 2.13 Cotton Towels
- 2.14 Carpets and Rugs of Wool, Knotted
- 2.15 Plywood
- 2.16 Kraft Paper and Kraft Paperboard
- 2.17 Cement
- 2.18 Television Receivers
- 2.19 Radio Receivers

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).

### V. General Notes:

The data on export in the tables includes re-export.

QUANTITY UNIT CODEAppendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE METRES
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOURS
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL *	CYLINDER
BDM	MARRELS/CAL. DAY	KWN	KILOWATTS	BAG *	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL *	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS *	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX *	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN *	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT *	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS	SMM	SQUARE METRES		
FLN	FLASKS	SMN	SQUARE METRES		
FTN	FEET	SPM	NUMBER OF SPINDLES		
GIN	IMERIAL GALLONS	STN	SHORT TONS		
GPN	PROOF GALLONS				
GRN	GROSS				

Note: The codes put on "\*" are prepared by IDE.

CURRENCY UNIT CODE

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHILIPPINES
S\$	SD	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Sources

Source No.

1. UN, Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics.
2. UN, Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics.
3. ESCAP, Statistical Yearbook.
4. AIDXT (International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base.
7. UNIDO, Production Index Data Base.
8. UN, Yearbook of International Trade Statistics
9. UN, Statistical Yearbook.
10. ---
11. Census and Statistics Department, Annual Digest of Statistics.
12. Census and Statistics Department, Census of Industry.  
Census and Statistics Department, Survey of Industrial Production.
13. Census and Statistics Department, 1973 Census of Industrial Production.
14. Census and Statistics Department, 1978 Census of Industrial Production.
15. Census and Statistics Department, Hong Kong Trade Statistics: Exports and Re-exports.
16. Census and Statistics Department, Hong Kong Trade Statistics: Imports.

Country: Hong Kong

Commodity: Lard

ISIC Code		311131						Note:	
NSIC Code		3121 a/						a/ "Lard" is a part of the 3121 industry-code commodity group.	
SITC Code		0913 B/						b/ SITC 0913 > ISIC 311131	
NSTC Code		091301						c/ The data on production of: 1) 1970-1972 is provisional or estimated figures, 2) 1973-1982 is FAO estimates.	
Source	Quantity				Value				
	2	15	16		15	16			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		1000 LBN/KGM d/				US\$	US\$	
1970	6000		2979	4007			2056578	3724671	
1971	8000		4605	4758			3187467	4530917	
1972	8000		3135	4379			1935667	3935494	
1973	31000		8278	4365			7516311	4951413	
1974	30000		11867	3993			9785202	6612922	
1975	30000		7867	4665			13121635	8397636	
1976	32000		5332	3121			5332778	5089404	
1977	33000		2393	3598			3274376	6161049	
1978	33000		2576	1571			6663823	5702655	
1979	34000		3999	1868			11765036	8090574	
1980	49000		8781	1495			19878185	6652862	
1981	42000		9050	1619			22619865	7335051	
1982	42000		11419	2213			27015731	9515150	
1983	-		-	2361			33901682	11469865	
1984	-		-	3113			-	18007818	

Note:

a/ "Lard" is a part of the 3121 industry-code commodity group.

b/ SITC 0913 &gt; ISIC 311131

c/ The data on production of:  
1) 1970-1972 is provisional or estimated figures,  
2) 1973-1982 is FAO estimates.

d/ Unit:

1) 1970-1977: 1000LBN  
2) 1978- : 1000KGM



Country: Hong Kong

Commodity: Fish, Frozen

ISIC Code	311401								Note: a/ "Fish, Frozen" is a part of the 3114 industry-code commodity group. b/ SITC 0311 > ISIC 311401
NSIC Code	3114 <sup>a/</sup>								
SITC Code	0311 <sup>b/</sup>								
NSTC Code	034201-034204, 034400 (1978-1983)								
	Quantity				Value				
Source	2	15	16		15	16			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		1000KGM	1000KGM			US\$	US\$	
1970	-		-	-			-	-	
1971	-		-	-			-	-	
1972	-		-	-			-	-	
1973	-		-	-			-	-	
1974	-		-	-			-	-	
1975	-		-	-			-	-	
1976	-		-	-			-	-	
1977	-		-	-			-	-	
1978	7300		7580	8800			47275403	46483997	
1979	6200		6327	9643			51954272	58819944	
1980	4700		4921	8483			35690619	64765338	
1981	9700		10102	10124			92293656	88010789	
1982	7800		7968	11809			73067192	119549733	
1983	-		5390	11749			70836026	142064835	
1984	-		-	-			-	-	

Country: Hong KongCommodity: Fish, Salted, Dried or Smoked

ISIC Code		311404							
NSIC Code		3114 a/							
SITC Code		0312 c/							
NSTC Code		031201, 031203, 031204, 031208, 031209 (1970-1977) 035031-035035, 035040 (1978-)							
		Quantity				Value			
Source	2	15	16		15	16			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM		1000 CWN/KGM B/				H\$	H\$	
1970	1700		22	144912			10530629	50878767	
1971	2500		18	146611			10470182	49144885	
1972	2900		18	155563			14319252	71618938	
1973	5000		26	151938			27154404	103418222	
1974	5500		22	148048			19043832	75206499	
1975	4400		29	158069			26075551	75947692	
1976	4100		36	139918			36800990	112918489	
1977	4200		39	155962			47317977	156111845	
1978	4000		1583	9519375			44075332	229008046	
1979	4900		1908	8090487			57441081	214046211	
1980	4300		2926	8958280			74992666	249061168	
1981	4000		3670	9769221			93884195	315072854	
1982	3500		4539	10569404			113192918	384174270	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Note:

a/ "Fish, Salted, Dried or Smoked" is a part of the 3114 industry-code commodity group.

b/ Unit:

- 1) 1970-1977: 1000CWN  
2) 1978- : 1000KGM

c/ SITC 0312 = ISIC 311404

Country: Hong KongCommodity: Prepared Animal Feeds

ISIC Code	312201								Note: a/ SITC 08199 = ISIC 312201
NSIC Code	3122								
SITC Code	08199 a/								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000US\$	1000US\$	
1970	-		2947	30464			459	5328	
1971	-		2781	35586			410	7161	
1972	-		2246	44648			288	7841	
1973	-		2233	43259			478	9178	
1974	-		1067	48484			284	13945	
1975	-		1126	44577			410	12288	
1976	-		1376	59437			427	17054	
1977	6000		973	75896			375	23619	
1978	6000		2589	90694			701	26915	
1979	7000		4401	103470			1468	29362	
1980	9000		15938	113407			5548	35905	
1981	10000		29052	123534			9820	38402	
1982	11000		67799	104806			20008	32533	
1983	-		123107	130512			32003	32112	
1984	-		-	-			-	-	

Country: Hong Kong

Commodity: Beer

ISIC Code		313304							Note: a/ "Beer" is a part of the 3133 industry-code commodity group. b/ The data on production of 1972-1981 is provisional or estimated figures. c/ Unit: 1) 1970-1977: CMN 2) 1978-1981: TM d/ SITC 1123 = ISIC 313304
NSIC Code		3133 a/							
SITC Code		1123 d/							
NSTC Code									
Source	Quantity				Value				
	2 Production	b/ Shipment	4 Export	4 Import	Production	Shipment	4 Export	4 Import	
Unit	1000HLM		CMN	TM c/			1000US\$	1000US\$	
1970	238		509	32025			184	6997	
1971	238		489	33690			193	8924	
1972	250		768	33571			298	9293	
1973	300		830	37708			372	11976	
1974	300		1007	31478			508	11274	
1975	370		948	27213			514	10946	
1976	450		1158	28647			662	12655	
1977	500		1583	34230			922	15633	
1978	550		1820	32686			1043	16932	
1979	570		3071	35855			1815	19492	
1980	600		4142	45023			2814	22876	
1981	630		8475	31699			5491	16196	
1982	-		-	-			-	-	
	-		-	-			-	-	
	-		-	-			-	-	

Country: Hong Kong

Commodity: Cigarettes

ISIC Code		314007								Note:
NSIC Code		3140 a/								
SITC Code		1222 c/								
NSTC Code										
Source		Quantity			Value					
		2	4	4		4	4			
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import	
		1000000000	TM	TM	TM	1000US\$	1000US\$	1000US\$	1000US\$	
1970	6402		3121	4650		9165	21401			
1971	5745		3091	5316		9879	26974			
1972	6031		3030	5949		11383	32618			
1973	4151		1916	6272		9074	36034			
1974	4748		2270	6361		11713	39531			
1975	4550		2313	5938		15178	43630			
1976	4006		2065	6880		16402	54814			
1977	4181		2044	5750		18118	52162			
1978	3983		1863	7902		17184	77381			
1979	4527		2704	8268		28232	91478			
1980	5444		4090	9175		47714	117021			
1981	6668		5105	8829		55732	134604			
1982	6484		4792	9018		60501	156927			
1983	-		7872	8530		91254	156458			
1984	-		-	-		-	-			

Note:

a/ "Cigarettes" is a part of 3140 industry-code commodity group.

b/ The data on production includes "Cigarillos".

c/ SITC 1222 = ISIC 314007

Country: Hong Kong

Commodity: Wool Yarn, Pure &amp; Mixed

ISIC Code	321103								Note: a/ SITC <sup>(65121)</sup> <sub>(65125)</sub> = ISIC 321103
NSIC Code	3251								
SITC Code	65121, 65125 a/								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000US\$	1000US\$	
1970	12500		11	222			40	1073	
1971	10000		14	257			52	1280	
1972	10600		12	340			49	1795	
1973	10200		44	202			252	1511	
1974	6400		10	383			84	3305	
1975	7100		8	263			38	2272	
1976	9200		5	288			41	2551	
1977	6900		11	464			102	4366	
1978	6100		1592	11451			11232	86406	
1979	6300		2904	13854			18979	103766	
1980	6100		12292	23180			90453	216372	
1981	5500		17927	18935			136064	183112	
1982	-		19715	19065			129964	151885	
1983	-		22484	24498			130953	205661	
1984	-		-	-			-	-	

Country: Hong KongCommodity: Cotton Yarn, Pure and Mixed

ISIC Code	321109								Note: a/ SITC 6513 = ISIC 321109
NSIC Code	3250								
SITC Code	6513 a/								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000US\$	1000US\$	
1970	164.4		16197	36325			19163	28065	
1971	159.7		12754	56456			16869	45011	
1972	144.1		10591	64620			15871	56426	
1973	168.2		18409	77878			40903	121409	
1974	172.9		14339	48909			46284	87434	
1975	194.2		9777	88834			22876	123525	
1976	221.9		9626	109265			26477	201947	
1977	200.4		20515	71950			57908	158148	
1978	209.5		10121	88146			27164	183312	
1979	224.3		8862	103032			27559	242512	
1980	200.6		12703	138781			38021	323725	
1981	161.3		9786	119630			26865	268990	
1982	148.3		9512	132467			24326	275887	
1983	-		16726	171201			36138	323089	
1984	-		-	-			-	-	

Country: Hong Kong

Commodity: Cotton Woven Fabrics

ISIC Code	321128								Note: a/ SITC 6521 = ISIC 321128
NSIC Code	3260								
SITC Code	6521 a/								
NSIC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SMM		1000SMM	1000SMM			1000US\$	1000US\$	
1970	645000		361795	192802			81740	33374	
1971	647000		334806	158361			82010	30258	
1972	533000		289359	168707			83622	38553	
1973	597000		349338	221041			144027	71505	
1974	558000		248660	159587			132055	62757	
1975	682000		225759	226003			90947	78222	
1976	822000		227808	248713			110140	97131	
1977	676000		215513	193828			114000	78583	
1978	654000		265297	298148			130711	120128	
1979	717000		230711	293762			144765	135527	
1980	661000		190206	254221			128670	125423	
1981	616000		259837	336224			157593	166281	
1982	566000		194640	336534			120266	165522	
1983	-		226319	419300			125798	186985	
1984	-		-	-			-	-	



Country: Hong KongCommodity: Cotton/Man-Made Fibre Piece-Goods

ISIC Code		3219				Note:					
NSIC Code		3299 a/				a/ "Cotton/Man-Made Fibre Piece-Goods" a part of 3299 industry-code commodity group.					
SITC Code											
NSTC Code		653525, 653535 (1970-1977)		653412-653414, 653416 (1978- )		b/ Unit: 1) 1970-1977: 1000SYN 2) 1978-1982: 1000SMM					
Source		Quantity		Value							
		11	15	16	15	16					
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import		
		1000SMM		1000 SYN/SMM b/				1000H\$	1000H\$		
1970	68510		51779	220335			99225	407911			
1971	83804		75370	294294			142013	489339			
1972	115800		139574	337715			248600	535436			
1973	115818		155685	320614			388402	652614			
1974	79516		125317	306577			398083	631694			
1975	79780		133413	283392			282810	482486			
1976	93849		141355	390535			342087	811054			
1977	87844		140937	346908			322749	742936			
1978	133469		147029	392854			421011	1066263			
1979	124974		189922	429582			682014	1541591			
1980	98289		207665	407760			721106	1453246			
1981	95654		273317	538450			1046527	1986093			
1982	-		313035	600136			1246052	2332251			
1983	-		-	-			-	-			
1984	-		-	-			-	-			

Country: Hong Kong

Commodity: Silk Fabrics

ISIC Code	321131								Note: # A marked break in the series, data prior to the sign not comparable a/ SITC 6531 = ISIC 321131
NSIC Code	3262								
SITC Code	6531 a/								
NSIC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SHM		1000SHM	1000SHM			1000US\$	1000US\$	
1970	366		287	3315			488	5731	
1971	218		286	1777			430	3889	
1972	122		680	1850			1078	4113	
1973	38		1761	3149			4085	8016	
1974	18		464	1457			1256	4685	
1975	18		2502	1536			4635	4599	
1976	15		2535	3325			5404	8716	
1977	510 <sup>#</sup>		2914	5354			8190	20431	
1978	1469		9191	13275			31141	51554	
1979	2575		8530	14471			39407	58450	
1980	2456		9902	26875			40615	106600	
1981	2972		13369	48484			52908	157862	
1982	2168		10652	35555			43088	108348	
1983	-		16547	60113			57772	185728	
1984	-		-	-			-	-	

Country: Hong Kong

Commodity: Cotton Towelling

SIC Code	3211								Note: a/ "Cotton Towelling" is a part of 3260 industry-code commodity group. b/ Unit: 1) 1970-1977: 1000SYN 2) 1978- : 1000SMM
NSIC Code	3260 a/								
SITC Code	65212, 65222								
NSTC Code	652148, 652242 (1970-1977)				652148, 652262, 652282 (1978- )				
	Quantity				Value				
Source	11		15	16			15	16	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SMM		1000 SYN/SMM	b/			US\$	US\$	
1970	11386		-	145			-	382285	
1971	11438		-	210			-	351853	
1972	13537		-	940			-	1500331	
1973	11558		7889	517			20303404	816758	
1974	13204		7130	1017			28003335	2579462	
1975	11616		5457	242			16698714	526518	
1976	12887		6881	47			21255066	148603	
1977	12000		8517	45			28839394	180803	
1978	7244		9011	381			31643500	1649115	
1979	7292		9106	276			40859339	1272536	
1980	6761		5583	640			29607575	2894514	
1981	2990		2749	530			16111955	2674035	
1982	2871		3377	766			19163383	3885522	
1983	-		3558	668			11370246	3398713	
1984	-		-	377			-	-	

Country: Hong Kong

Commodity: Cotton Towels

ISIC Code		3212							
KSIC Code		3292 a/							
SITC Code		65891							
NSTC Code		656919, 656920 (1970-1977)				658452, 658454-658456 (1978- )			
Source		Quantity				Value			
		11	15	16		15	16		
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import
		NOH		NOH	NOH			US	US
1970	-			83411412	21529980			108249807	16181315
1971	-			83806596	21144024			121521082	16266731
1972	-			84686892	38705880			126067728	20259122
1973	-			81545112	53882232			120504409	47201700
1974	-			56475192	40374084			153789561	44846078
1975	14340000			61795212	56967756			136972208	58763456
1976	15444000			62117376	54647352			160304870	63834535
1977	8844000			45008928	40357932			131097109	54436603
1978	8367000			51013892	53379832			131674456	73176495
1979	9357000			61844239	61934760			187564039	118008190
1980	5993000			65636491	74720822			216131879	155826509
1981	4565000			59872780	97075208			230584677	213097996
1982	3245000			60873657	101493889			235344399	250152167
1983	-			61154781	103186262			254006085	216572188
1984	-			-	95798239			-	-

Note:

a/ "Cotton Towels" is a part of 3292 industry-code commodity group.

Country: Hong Kong

Commodity: Carpets and Rugs of Wool, Knotted

ISIC Code	321401								Note: a/ "Carpets and Rugs of Wool, Knotted" is a part of the 3294 industry-code commodity group. b/ SITC 6575 = ISIC 321401
NSIC Code	3294 a/								
SITC Code	6575 b/								
NSIC Code									
Source	Quantity				Value				
	2		4	4			4	4	
Unit	Production 1000SHH	Shipment	Export 1000SHH	Import 1000SHH	Production	Shipment	Export 1000US\$	Import 1000US\$	
1970	164		8	36			445	1241	
1971	174		29	41			847	1374	
1972	188		25	44			1149	1589	
1973	211		19	53			1056	3340	
1974	169		18	34			1480	2330	
1975	168		15	25			1510	2185	
1976	206		20	44			2411	4082	
1977	245		39	108			4069	11418	
1978	230		56	76			6710	8069	
1979	261		60	106			7307	11411	
1980	307		62	96			10862	13310	
1981	311		60	129			11116	15366	
1982	234		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Hong Kong

Commodity: Plywood

ISIC Code	331116								Note: a/ "Plywood" is a part of the 3311 industrial-code commodity group. b/ The data on production is FAO estimates.
NSIC Code	3311 a/								
SITC Code	63121								
NSIC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000CHM		1000SMM	1000SMM			1000US\$	1000US\$	
1970	10		110	9859			100	8392	
1971	12		298	12538			309	11007	
1972	12		124	13455			153	11725	
1973	12		388	15510			485	20716	
1974	12		230	12517			319	10919	
1975	12		108	14246			214	19372	
1976	12		342	19360			450	33303	
1977	12		1024	20612			1265	41250	
1978	12		1401	25730			1793	48375	
1979	12		12044	35405			17780	79955	
1980	12		25343	49816			34970	106193	
1981	12		19874	52430			26568	115555	
1982	12		6954	34969			13219	88552	
1983	-		7149	35502			14445	81973	
1984	-		-	-			-	-	

Country: Hong Kong

Commodity: Kraft Paper and Kraft Paperboard

Source	Quantity				Value			
	2 Production	b/ Shipment	4 Export	4 Import	Production	Shipment	4 Export	4 Import
Unit	TM		TM	TM			1000US\$	1000US\$
1970	-		1195	57044			232	9598
1971	-		3406	64814			793	10714
1972	-		1210	73815			280	12620
1973	-		4307	64718			1532	15145
1974	-		4311	58164			2474	23226
1975	8000		3518	49351			1951	16346
1976	8000		5244	77738			2406	23711
1977	11000		3793	66401			1678	19464
1978	13000		4027	80615			1635	23164
1979	15000		4046	82915			1882	30655
1980	15000		7090	73609			4028	45129
1981	15000		3233	81712			1939	36364
1982	15000		4194	79213			2110	31199
1983	-		8534	108857			3231	35802
1984	-		-	-			-	-

Note:

a/ "Kraft Paper and Kraft Paperboard" is a part of the 3411 industry-code commodity group.

b/ The data on production of 1980-1982 is FAO estimates.

c/ SITC 6413 = ISIC 341125

Country: Hong KongCommodity: Cement

Source	Quantity				Value			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	TM		TM	TM			1000US\$	1000US\$
1970	430000		16442	487504			273	7249
1971	512000		3919	793033			67	12394
1972	408000		8398	931410			155	15480
1973	441000		21726	1211310			560	25136
1974	571000		22055	1336610			1038	54902
1975	575000		2816	1152590			130	39771
1976	765000		3463	1624980			141	50214
1977	1029000		1856	2101900			104	68432
1978	1236000		4084	2352220			238	91390
1979	1279000		7624	2574870			651	126240
1980	1489000		22316	3219850			908	168538
1981	1517000		24293	3382550			1764	171955
1982	1436000		73846	3355260			4222	160229
1983	1717000		318459	3037120			14448	120135
1984	-		-	-			-	-

Note:

a/ "Cement" is a part of the 3692 industry-code commodity group.

b/ SITC 6612 = ISIC 369204



Country: Hong Kong

Commodity: Television Receivers

ISIC Code		383201							Note: a/ "Television Receivers" is a part of the 3834 industry-code commodity group. b/ The data on production: Exports. c/ SITC 7241 = ISIC 383201	
NSIC Code		3834 a/								
SITC Code		7241 c/								
NSTC Code										
Source		Quantity				Value				
		2	4	4		4	4			
Unit		Production NOH	Shipment	Export NOH	Import NOH	Production	Shipment	Export 1000US\$	Import 1000US\$	
1970		27000		-	-			8002	21573	
1971		7000		-	-			14543	25650	
1972		1000		-	-			14246	26669	
1973		2000		-	-			15840	41033	
1974		11000		-	-			16118	54149	
1975		19000		-	-			12654	35128	
1976		2000		-	-			9517	54190	
1977		11000		-	-			9909	75539	
1978		5000		22461	305208			5207	93371	
1979		40000		160293	667143			29984	132138	
1980		108000		911770	1379840			88095	180152	
1981		360000		2371410	2527510			190550	266223	
1982		199000		671415	638476			79742	99068	
1983		-		722401	551871			87959	94440	
1984		-		-	-			-	-	

Country: Hong Kong

Commodity: Radio Receivers

ISIC Code		383204								Note: a/ 3832 industry-code refer- res only to "Manufacture of Transistorized Radios".  b/ The data on production: Exports.  c/ SITC 7242 = ISIC 383204
NSIC Code		3832 a/								
SITC Code		7242 c/								
NSIC Code										
		Quantity				Value				
Source	2 b/	4	4	4	4	4	4	4	4	
Unit	Production NOH	Shipment	Export NOH	Import NOH	Production	Shipment	Export 1000US\$	Import 1000US\$	Imports	
1970	22096000		-	-			90128	37161		
1971	26067000		-	-			128987	42015		
1972	35434000		-	-			181543	59300		
1973	39899000		-	-			261779	73601		
1974	39391000		-	-			312028	78802		
1975	39022000		-	-			306706	72397		
1976	50491000		-	-			447123	112782		
1977	53022000		-	-			531060	103633		
1978	40902000		51848300	1375000			503036	32815		
1979	40639000		55306300	3210900			672359	103493		
1980	48262000		63422600	7351620			844519	214817		
1981	44617000		59854400	10832300			702710	202955		
1982	42056000		55617300	-			662963	-		
1983	-		54316100	-			568617	-		
1984	-		-	-			-	-		

PART VII

INDIA

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Converter between ISIC and NSIC (National Industrial Classification)
- IV. Commodity Balance Sheet

I. Explanatory Notes on Manufacturing Statistics

## India

### Annual Survey of Industries

Reference Period : Fiscal Year (1st April of the year to 31st March of the following year)

Survey Year : Every year since 1959

Office in Charge : Central Statistical Organisation

Total of the report: Annual Survey of Industries;  
Census Sector (detailed result in 10 volumes)  
Summary Results for Census Sector  
Summary Results for Factory Sector

Coverage: The survey has divided into two frames, the census sector and the non-census sector. The census sector covers all establishments employing 50 or more workers with the aid of power, or 100 or more workers without the aid of power. The census sector is totally covered in the survey every year. The non-census sector covers all establishments employing 10-49 workers with the aid of power, or 20-99 workers without the aid of power.

Item: The survey enumerated as follows: classificatory characteristics (type of ownership, type of management, type of power used), inventory and other capital transactions (net opening balance, value of additions, sold or discarded, depreciation, net closing balance, rent paid concerning land, building, plant and machinery, transport equipment), working (number of working days shifts per day), employment and emoluments (workers employed, salaries and wages, bonus), raw materials consumed (coal, petroleum, water, electricity), other items of input cost (materials consumed for repair and maintenance of factory's fixed assets, cost of contract work and commission work done by others on materials supplied by the factory, cost of repair and maintenance work done by others to the factory's fixed assets), cost of non-industrial services rendered by others (insurance, taxes and duties on purchases, advertising), other items of output (electricity produced, receipts for industrial work done for or industrial services rendered to others)

Classification: Since 1973/74, NIC (National Industrial Classification) is being used for classifying sampling units in the survey. The estimates of different aggregates presented at two, three or four (the most detailed classification) digit level.

Methodology and Procedures: The field work of the survey is carried out by the Field Operations Division (FOD) of the National Sample Survey Organization (NSSO) through its network of regional and subregional offices located in different parts of the country.

Method of Estimation: The sampling design adopted for the non-census sector was a stratified unistage one. The strata were constituted by grouping factories within each State/Union Territory by industries at the ultimate digit level and by district. Within district, the factories were listed in descending order of their employment. Having thus arranged and serially numbered the non-census sector factories in a stratum, factories with all serial number were surveyed in the first year and those with even number in the second year.

Number of Reported Factories: (Response rate)

1980/81	96503	(95-100%)
1979/80	95126	(95-100%)
1978/79	88077	(95-100%)
1977/78	84927	(95-100%)
1976/77	81277	(95-100%)
1975/76	71705	(95-100%)
1974/75	64217	(95-100%)
1972/73		
1971/72		
1970/71	64428	(95-100%)

Definition of Terms:

1) Registered Factory

Registered factory is one registered under the Factories Act, 1948 employing 10 or more worker and using power and 20 or more workers and not using power. Closed factories are also included till they are deleted from the lists maintained by the Chief Inspectors of Factories in the States. In case different firms of a single integrated unit of production are registered as different factories the owner is permitted to submit a single return for the whole unit provided the constituent factories are located in the same State and belong to the same industry group.

2) Persons engaged in Registered Factory

i) Workers

Workers are defined to include all persons employed directly or through any agency whether for wages or not and engaged in any manufacturing process or in cleaning any part of the machinery or premises used for manufacturing process or in any other kind of work incidental to or connected with the manufacturing process or the subject of the manufacturing process. Labour engaged in the repair and maintenance or production of fixed assets for factory's own use or labour employed for generating electricity or producing coal gas are included. However persons holding positions of supervision or management, or employed in administrative office, store keeping section and welfare section, watch and ward staff, sales department as also those engaged in the purchase of raw materials etc. and in production of the fixed assets for the factory are excluded.

ii) Employees

Employees includes all worker defined above and persons receiving wages and holding positions of supervision or management, engaged in administrative office, store keeping section and welfare section, watch and ward staff, sales department as also those engaged in purchase of raw materials etc. or production of fixed assets for the factory.

iii) Total Persons Engaged

Total persons engaged relate to all persons engaged by the factory whether for wages or not, in work connected directly or indirectly with the manufacturing process and include all administrative, technical, clerical staff as also labour engaged in production of capital assets for factory's own use. This is inclusive of persons holding position of supervision or management or engaged in administrative office, store keeping section and welfare section, watch and ward staff, sales department as also those engaged in the purchase of raw materials etc. and the production of fixed assets for the factory. It also include all working proprietors and their family members who are actively engaged in the work of the factory even without any pay and the unpaid members of the co-operative societies who worked in or for the factory in any direct and productive capacity.

### 3) Gross Output

Gross output is defined to include the exfactory value of products and by-products manufactured during the accounting year. It also includes the net value of the semi-finished goods completed or work in progress and also the receipts for industrial and non-industrial services rendered to others, value of semi-finished goods of last year sold in current year and sale value of goods sold in the same condition as purchased. This terms gross output, value of output and total output have been used in the text interchangeably to mean the same thing.

### 4) Wages and Salaries

#### i) Wages

Wages are defined to include all remuneration capable of being expressed in monetary terms and also payable more or less regularly in each pay period to workers (defined above) as compensation for work done during the accounting year. It includes (a) direct wages and salary (i.e. basic wages/salaries, payment of overtime, dearness, compensatory, house rent and other allowances) (b) remuneration for period not worked (i.e. basic wages, salaries and allowances payable for leave period, paid holiday, lay off payments and compensation for unemployment, if not paid from sources other than employers) (c) bonuses and ex-gratia payment paid both at regular and less frequent intervals (i.e. incentive bonuses, good attendance bonuses, productive bonuses, profit sharing bonuses, festival or year end bonuses etc.). It excludes lay off payment which are made from trust or other special funds set up expressly for this purpose i.e. payments not made by the employer. It also excludes imputed value of benefits in kind, employers contribution to old age benefits and other social security charges, direct expenditure on maternity benefits and creches and other group benefits. Travelling and other expenditure incurred for business, purposes and reimbursed by the employer are excluded. The wages are expressed in terms of gross value i.e. before deductions for fines, damages, taxes, provident fund, employee's state insurance contribution etc.

#### ii) Total Emoluments

Total emoluments are defined in the same way as wages defined above but paid to all employees plus imputed value of benefits in kind i.e. the net cost to the employer on those goods and services provide to employees free of charge or at markedly reduced cost which are clearly and primarily of benefits to the employees as consumers.



#### 5) Total Input

Total input comprises gross value of fuels, materials etc. consumed (as defined above) and also other inputs viz. (a) cost of non-industrial services received from others (b) cost of materials consumed for repair and maintenance of factory's fixed assets including cost of work done by others to the factory's fixed assets (c) cost of contract and commission-work done by others on materials supplied by the factory (d) cost of office supplies and products reported for sale during last year and used for further manufacture during the accounting year and (e) purchase value of goods sold in the same condition as purchased.

#### 6) Materials Consumed

Materials consumed represent the total delivered value of all items of raw materials, components, chemicals, packing materials and stores which actually entered into the production process of the factory during the accounting year. Also include the cost of all materials used in the production of fixed assets including construction work for factory's own use. It, however, excludes all intermediate products consumed during the accounting year. (Intermediate products in the above context mean all those products which are produced by the factory but are subject to further manufacturing process).

#### 7) Fuels Consumed

Fuels consumed represent total purchase value of all items of fuels, lubricants, electricity, water etc. consumed by the factory during the accounting year excepting those which directly enter into products as materials consumed. It excludes that part of fuels which is produced and consumed by the factory in manufacture i.e. all intermediate products and also fuels consumed by employees as part of amenities. It includes quantities acquired and consumed from allied concerns, their book value being taken as their purchase value and also the quantities consumed in production of machinery or other capital items for factory's own use.

#### 8) Net Value Added

Net value added is the increment to the value of goods and services that is contributed by the factory and is obtained by deducting the value of total inputs and depreciation from value of output.

#### 9) Net Income

Net income represents the factory shares of employees and entrepreneur in the value added and is obtained by deducting the rent paid and interest paid from the value added.

#### 10) Fixed Capital

Fixed capital represents the depreciated value of fixed assets owned by the factory as on the closing day of the accounting year. Fixed assets are those which have normal productive life of more than one year. Fixed capital covers all types of assets, new or used or own constructed, deployed for production, transportation, living or recreational facilities, hospitals, schools, etc. for factory personnel. It includes the fixed assets of the head office allocable to the factory and also the full value of assets taken on hire-purchase basis (whether fully paid or not) including interest element. It excludes intangible assets and assets solely used for post manufacturing activities such as sale, storage, distribution etc.

#### 11) Depreciation

Depreciation is consumption of fixed capital by the factory due to wear and tear and obsolescence during the accounting year and is taken as provided by the factory owner or is estimated on the basis of cost of installation and working life of the fixed assets.

II. General Industrial Statistics

1. Explanatory Notes

2. Statistical Tables

2.1 Number of Establishments

2.2 Employment (Average Number of Persons Engaged)

2.3 Employment (Average Number of Employees)

2.4 Gross Output

2.5 Wages and Salaries

2.6 Value Added

2.7 Gross Fixed Capital Formation

2.8 Index Numbers of Industrial Production (1975=100)

## Explanatory Notes

### I. Classification:

The classification of industrial activity set out in the tables follows the three-digit code of the present version of ISIC. The data used NA (national source) according to NIC (National Industrial Classification) are converted to ISIC based on the Convertors (III).

### II. Sources of Data:

The statistical data presented in the following tables derived from three kinds of data sources, UN, UNIDO and NA. The abbreviation of data sources are as follows.

UN-----UN, Yearbook of Industrial Statistics, Vol. I, General Industrial Statistics.

UNIDO--UNIDO, General Industrial Data Base.

NAI----Central Statistical Organisation, Annual Survey of Industries; Summary results for factory sector.

### III. Reference Period:

The reference period is the fiscal year from 1 April to 31 March of next year.

### IV. Concepts and Definition:

For description of concepts and definitions used in the data sources cited above, please refer to Explanatory Notes on Manufacturing Statistics (I).

### V. Footnotes:

See the end of each indicator.

COUNTRY: INDIA

## 2.1 Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	14674			13509	13454	14126	15306	15783	16310	16840				
						13634		15589	16124	16686	17261	17549			
313	Beverages	258			339	287	267	283	313	298	326				
						268		283	313	298	328	359			
314	Tobacco	1541			2018	1813	2621	6115	6994	7942	9303				
						1812		6115	6994	7942	9303	8542			
321	Textiles	10168			9872	9520	10351	10959	11402	11714	12746				
						9522		10959	11402	11714	12746	12867			
322	Wearing apparel	375			336	391	526	749	803	1042	1120				
						391		749	803	1042	1120	1253			
323	Leather and products	588			484	529	546	592	609	629	658				
						529		592	609	629	658	562			
324	Footwear	122			105	129	121	123	138	153	156				
						129		123	138	153	166	201			
331 a/	Wood products	3044			2627	2866	3109	3257	3355	3462	3643				
						2866		3257	3355	3462	3645	3692			

COUNTRY: INDIA

## Number of Establishments

Unit: NO.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	618			305	292	322	316	321	326	335				
						292		316	321	326	333	341			
341	Paper and products	660			908	925	997	1011	1138	1173	1204				
						925		1011	1128	1173	1302	1303			
342	Printing, publishing	3236			2871	2895	2939	3495	3301	3728	3539				
b/						2895		3495	3311	3728	3441	3495			
351	Industrial chemicals	2594			876	1024	1184	1309	1404	1556	1592				
						1024		1309	1404	1556	1592	1573			
352	Other chemical products				2167	2197	2548	2843	3270	3325	3736				
c/						2017		2560	2929	2949	3315	3424			
353	Petroleum refineries	92			23	26	27	34	29	33	19				
						26		34	29	33	19	16			
354	Petroleum, coal products	43			99	130	204	245	267	293	299				
						130		245	267	293	299	344			
355	Rubber products	678			874	905	1090	1217	1272	1312	1455				
						905		1217	1272	1312	1455	1488			

COUNTRY: INDIA

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.				798	891	1175	1335	1313	712	1529				
						891		1335	1313	712	1529	1650			
361	Pottery, china etc.	241			235	252	296	372	407	400	424				
						252		372	407	400	424	437			
362	Glass and products	358			391	392	414	448	433	560	573				
						392		448	433	560	573	590			
369	Non-metal products n.e.c.	3199			3131	3246	4110	4489	4668	4679	5086				
						3246		4489	4668	4679	5086	5413			
371	Iron and steel	2493			5431	3654	3929	4307	4315	4502	4693				
						3654		4307	4315	4502	4693	4892			
372	Non-ferrous metals	648			701	561	633	681	739	748	845				
						561		681	739	748	845	887			
381	Metal products	4774			4434	4412	5260	5590	5657	5818	6230				
						4412		5590	5657	5818	6230	6457			
382 a/	Machinery n.e.c.	6011			4713	4808	5449	5881	6203	6387	6826				
						4839		5941	6270	6753	6934	7131			

COUNTRY: INDIA

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383 e/	Electrical machinery	1714			2380	2340	2390	2596	2740	2882	3277				
						2309		2656	2673	2516	3169	3286			
384	Transport equipment	3239			1600	1680	2152	2204	2348	2528	2867				
						1680		2204	2348	2528	2867	2815			
385	Professional goods	446			502	539	545	581	660	657	777				
						539		581	660	657	777	752			
390	Other industries	2586			1160	1027	928	1290	1237	1142	1270				
						1027		1290	1237	1142	1270	1204			

Footnotes:

- a/ 1979 data used NAI source--M. of bamboo & cane furniture and fixture (ISIC 3320) is included.
- b/ 1979 data used NAI source--M. of pulp products, etc. like doll (ISIC) is included.
- c/ Data used UN1 source-----M. of inedible oils (ISIC 3115) is included.
- Data used NAI source-----M. of Dye-stuffs and Indigo (ISIC 3511) is included.
- d/ Data used UN source-----M. of prime, movers, boilers, etc. (ISIC 3813) is included.
- e/ Data used UN source-----M. of electric computers, etc. (ISIC 3825) is included.



COUNTRY: INDIA

## 2.2 Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	666			695	924	1045	1130	1194	1132	1176				
						937		1149	1219	1156	1206	1348			
313	Beverages	18			22	24	28	27	30	31	35				
						28		27	30	31	35	41			
314	Tobacco	121			200	190	198	294	334	361	368				
						194		293	334	361	368	299			
321	Textiles	1356			1447	1506	1550	1520	1583	1624	1695				
						1506		1526	1583	1624	1695	1695			
322	Wearing apparel	18			18	22	28	43	49	48	54				
						22		43	49	48	52	51			
323	Leather and products	27			23	23	23	29	28	35	34				
						23		29	29	36	35	30			
324	Footwear	5			21	21	7	20	22	28	26				
						21		20	22	28	26	25			
331	Wood products	60			62	68	65	64	68	70	75				
a/						68		64	68	70	75	72			

COUNTRY: INDIA

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	24			13	10	12	9	9	8	10				
						10		9	9	8	10	11			
341	Paper and products	89			91	95	98	102	111	107	121				
						95		102	111	107	121	126			
342	Printing, publishing b/	157			159	148	136	143	148	151	153				
						148		143	148	151	153	151			
351	Industrial chemicals	278			129	133	148	148	149	165	196				
						133		148	149	165	196	190			
352	Other chemical products c/				193	197	210	225	265	262	294				
						184		206	240	238	265	270			
353	Petroleum refineries	11			8	10	9	10	10	10	10				
						10		10	10	10	10	10	17		
354	Petroleum, coal products	9			12	15	19	22	26	30	31				
						15		22	26	30	31	26			
355	Rubber products	70			63	64	79	70	82	83	83				
						64		70	81	83	83	88			

COUNTRY: INDIA

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.				30	28	30	33	34	21	59				
						28		33	34	21	59	45			
361	Pottery, china etc.	28			27	22	22	25	28	28	29				
						108		25	28	28	29	30			
362	Glass and products	51			53	57	56	55	51	57	58				
						57		55	51	57	58	59			
369	Non-metal products n.e.c.	179			203	203	213	214	224	253	202				
						203		214	224	253	252	272			
371	Iron and steel	357			414	381	446	439	454	500	504				
						381		439	454	500	504	530			
372	Non-ferrous metals	40			44	41	47	44	47	49	53				
						41		44	47	49	53	55			
381	Metal products	163			176	172	175	181	195	184	202				
						172		181	195	184	202	199			
382 d/	Machinery n.e.c.	303			324	335	342	348	384	384	420				
						342		348	394	397	436	428			

COUNTRY:INDIA

## Employment(Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383 e/	Electrical machinery	217			252	254	261	267	274	285	314				
						247		257	264	272	296	302			
384	Transport equipment	499			391	395	356	340	356	392	482				
						395		340	356	392	482	487			
385	Professional goods	30			32	31	30	32	35	38	40				
						31		32	35	38	40	40			
390	Other industries	83			36	33	30	28	32	29	31				
						33		28	32	29	31	30			

Footnotes:

- a/ 1979 data used NAI source--M. of bamboo & cane furniture and fixture (ISIC 3320) is included.
- b/ 1979 data used NAI source--M. of pulp products, etc. like doll (ISIC) is included.
- c/ Data used UN1 source-----M. of inedible oils (ISIC 3115) is included.
- d/ Data used NAI source-----M. of Dye-stuffs and Indigo (ISIC 3511) is included.
- e/ Data used UN source-----M. of prime, movers, boilers, etc. (ISIC 3813) is included.
- e/ Data used UN source-----M. of electric computers, etc. (ISIC 3825) is included.

COUNTRY: INDIA

2.3 Employment (Average No. of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	666	720		695	924	1045	1130	1194	1132					
313	Beverages	19	21		22	24	26	27	30	30					
314	Tabacco	121	148		200	196	198	294	334	361					
321	Textiles	1356	1415		1447	1506	1550	1526	1583	1624					
322	Wearing apparel	19	17		19	22	29	43	49	49					
323	Leather and products	27	30		23	23	23	29	28	35					
324	Footwear	5	10		21	21	7	20	22	28					
331 a/	Wood products	60	72		62	68	65	64	68	70					

COUNTRY: INDIA

Employment (Average No. of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	15	19		13	10	12	9	9	8					
341	Paper and products	89	94		91	95	98	102	111	107					
342 b/	Pulp, paper etc.	157	154		159	148	136	143	148	151					
351	Industrial chemicals	112	116		129	133	148	148	149	165					
352 c/	Other chemical products	166	187		193	197	210	225	265	262					
353	Petroleum refineries	11	11		8	10	9	10	10	10					
354	Petroleum, coal products	9	11		12	15	19	22	26	30					
355	Rubber products	70	75		63	64	79	70	82	83					

COUNTRY: INDIA

## Employment (Average No. of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	38	36		30	28	30	33	34	21					
361	Pottery, china etc.	26	26		27	22	22	25	28	28					
362	Glass and products	51	53		53	57	56	55	51	57					
369	Non-metal products n.e.c.	179	196		203	203	213	214	224	253					
371	Iron and steel	357	388		414	381	446	439	454	500					
372	Non-ferrous metals	40	48		44	41	47	44	47	49					
381	Metal products	172	173		176	172	175	181	195	184					
382 d/	Machinery n.e.c.	303	328		324	335	342	348	384	384					

COUNTRY: INDIA

Employment (Average No. of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383 e/	Electrical machinery	217	233		252	254	261	267	274	285					
384	Transport equipment	386	367		391	395	356	340	356	392					
385	Professional goods	30	34		32	31	30	32	35	38					
390	Other industries	45	43		36	33	30	30	32	29					

Footnotes:

- a/ 1979 data used NAI source--M. of bamboo & cane furniture and fixture (ISIC 3320) is included.
- b/ 1979 data used NAI source--M. of pulp products, etc. like doll (ISIC) is included.
- c/ Data used UN1 source-----M. of inedible oils (ISIC 3115) is included.  
Data used NAI source-----M. of Dye-stuffs and Indigo (ISIC 3511) is included.
- d/ Data used UN source-----M. of prime, movers, boilers, etc. (ISIC 3813) is included.
- e/ Data used UN source-----M. of electric computers, etc. (ISIC 3825) is included.



COUNTRY: INDIA

## 2.4 Gross output

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	27582		34077	43881	49431	53155	62897	47987	74850					
		UNIDO	27582	28150		34077	43881	49431	53155	62897	67967					
		NA1 NA2					45924		55871	66555	71017	75271	84836			
313	Beverages	730			947	1166	1203	1693	1968	2203	2637					
		730	864		947	1166	1203	1693	1968	2203						
						2251		1693	1968	2203	2637	3306				
314	Tobacco	2935			4238	4829	5494	7207	7858	8345	7714					
		2935	3880		4238	4829	5494	7207								
						4034		7207	7858	8345	7714	7793				
321	Textiles	25290			36079	46244	48288	53766	64076	71610	78774					
		25290	29356		36079	46244	48288	53766	64076	71609						
						46245		53766	64076	71610	78774	86220				
322	Wearing apparel	403			494	610	928	1438	1892	2334	2806					
		403	304		494	610	928	1438	1892	2334						
						610		1438	1892	2334	2806	3485				
323	Leather and products	866			1388	1507	1750	2762	2577	3694	5066					
		866	1029		1388	1507	1750	2762	2577	3694						
						1507		2762	2577	3694	5066	3967				
324	Footwear	128			402	489	240	604	707	792	1113					
		128	262		402	489	240	604	707	792						
						489		604	707	792	1113	1210				
331 a/	Wood products	80			1122	1457	1455	1596	1932	2151	2531					
		780	1038		1122	1457	1455	1596	1932	2151						
						1457		1596	1932	2151	2531	3001				



## COUNTRY: INDIA

## Gross output

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.				1084	1306	1452	2218	2484	1572	3320				
		1047	984		1084	1306	1452	2218	2484	1572	3320	5323			
361	Pottery, china etc.	210			330	306	401	462	550	603	742				
		210	246		330	306	401	462	550	603					
						305		462	2020	556	742	1001			
362	Glass and products	568			847	1197	1182	1302	1428	1774	1788				
		568	628		848	1197	1182	1302	1428	1774					
						1197		1302	1429	1774	1769	2047			
369	Non-metal products n.e.c.	3339			4452	5510	7110	8165	9167	9866	11665				
		3339	3753		4452	5510	7110	8165	9167	9866					
						4520		6816	7697	8209	9518	13754			
371	Iron and steel	10822			17411	22579	27496	30303	31783	42141	51370				
		10822	12363		17411	22579	27496	30303	31783	42141					
						22579		30303	31783	42141	51370	63047			
372	Non-ferrous metals	2516			2936	3781	4864	5861	6294	6858	7950				
		2516	2768		2936	3781	4864	5861	6294	6858					
						3781		5861	6294	6858	7950	8768			
381	Metal products	3937			5436	6836	7108	8335	9491	9745	13140				
		4239	4806		5436	6836	7108	8335	9491	9745					
						6835		8335	9491	9745	13140	13938			
382	Machinery n.e.c. a/	7130			13579	14856	16921	20150	21909	24858	29665				
		7130	8530		13579	14856	16921	20150	21909	24858					
						15171		20703	22456	25741	30828	37500			

COUNTRY: INDIA

Gross output

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383 e/	Electrical machinery	6914			11150	13844	16774	19180	20996	23508	29801				
		6914	8366		11150	13844	16774	19180	20996	23508					
						13529		18627	20450	22625	28638	34551			
		8749			11235	13607	14396	16411	17028	21263	27786				
		7527	8840		11235	13607	14396	16411	17028	21263					
						13607		16411	17029	21263	27786	33689			
		562			663	865	1030	1219	1480	1644	2259				
		562	711		663	865	1030	1219	1480	1644					
						865		1219	1480	1644	2259	2464			
		1779			794	869	963	1222	1408	1728	1746				
		734	689		794	869	963	1222	1408	1728					
						869		1223	1408	1728	1746	2389			

Footnotes:

- a/ 1979 data used NAI source--M. of bamboo & cane furniture and fixture (ISIC 3320) is included.
- b/ 1979 data used NAI source--M. of pulp products, etc. like doll (ISIC) is included.
- c/ Data used UN1 source-----M. of inedible oils (ISIC 3115) is included.  
Data used NAI source-----M. of Dye-stuffs and Indigo (ISIC 3511) is included.
- d/ Data used UN source-----M. of prime, movers, boilers, etc. (ISIC 3813) is included.
- e/ Data used UN source-----M. of electric computers, etc. (ISIC 3825) is included.

COUNTRY: INDIA

Wages and Salaries

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	1172			1563	1819	2311	2409	2731	3060	3439				
						1851		2463	2790	3122	3519	3735			
313	Beverages	58			96	108	168	141	169	197	322				
						123		142	189	197	322	251			
314	Tobacco	169			295	307	357	529	652	739	781				
						292		529	652	739	781	839			
321	Textiles	3982			5860	7499	8070	7860	9330	9830	11522				
						7499		7860	9330	9830	11522	12547			
322	Wearing apparel	38			56	72	103	158	200	215	240				
						72		158	200	215	240	265			
323	Leather and products	59			68	81	94	123	115	146	171				
						81		123	115	146	171	198			
324	Footwear	15			106	127	34	127	157	170	215				
						127		127	157	170	215	211			
331 a/	Wood products	97			132	160	163	171	199	215	249				
						160		171	199	215	250	261			

COUNTRY: INDIA

## Wages and Salaries

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	83			29	27	32	29	34	36	46				
						27		30	35	36	46	53			
341	Paper and products	314			429	547	599	621	735	786	964				
						547		621	735	786	964	1090			
342	Printing, publishing	515			669	778	749	837	927	982	1115				
c/						778		837	927	982	1115	1227			
351	Industrial chemicals	1333			917	1163	1394	1468	1618	2025	2357				
						1163		1468	1618	2025	2357	1418			
352	Other chemical products				1134	1280	1514	1627	1949	2168	2555				
d/						1248		1084	1890	2106	2475	2953			
353	Petroleum refineries	110			101	154	173	183	205	220	224				
						154		183	205	220	224	222			
354	Petroleum, coal products	46			80	106	149	184	232	276	316				
						106		184	232	276	316	301			
355	Rubber products	332			347	396	593	511	560	629	700				
						396		511	560	629	700	979			

COUNTRY:INDIA

## Wages and Salaries

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.				101	109	112	143	162	112	214				
						109			143	162	112	214	279		
361	Pottery, china etc.	56			83	69	79	93	116	133	155				
						69			93	116	133	155	314		
362	Glass and products	116			161	201	209	220	223	275	288				
						201			221	223	275	288	300		
369	Non-metal products n.e.c.	415			618	757	882	922	1008	1145	1298				
						542			605	735	827	914	1514		
371	Iron and steel	1647			2636	3042	3630	3808	3962	4455	5299				
						3042			3808	3962	4455	5299	5821		
372	Non-ferrous metals	182			266	399	383	369	419	479	543				
						399	383	369	419	479	543	630			
381	Metal products	490			706	860	912	994	1142	1123	1461				
						860			994	1142	1123	1461	3312		
382 a/	Machinery n.e.c.	1111			1706	2098	2325	2571	2973	3231	3705				
						2148			2670	3086	3376	3896	4375		

COUNTRY: INDIA

## Wages and Salaries

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383 e/	Electrical machinery	996			1526	1922	2159	2252	2562	2732	3284				
						1872		2153	2449	2589	3093	3496			
384	Transport equipment	1995			2201	2650	2729	2719	3026	3625	4677				
						2650		2719	3026	3625	4677	5428			
385	Professional goods	106			145	174	192	212	242	258	323				
						174		212	243	258	323	398			
390	Other industries	233			143	154	146	158	186	183	197				
						155		158	186	183	197	249			

Footnotes:

- a/ 1979 data used NAI source--M. of bamboo & cane furniture and fixture (ISIC 3320) is included.
- b/ 1979 data used NAI source--M. of pulp products, etc. like doll (ISIC) is included.
- c/ Data used UN1 source-----M. of inedible oils (ISIC 3115) is included.  
Data used NAI source-----M. of Dye-stuffs and Indigo (ISIC 3511) is included.
- d/ Data used UN source-----M. of prime, movers, boilers, etc. (ISIC 3813) is included.
- e/ Data used UN source-----M. of electric computers, etc. (ISIC 3825) is included.



COUNTRY: INDIA

## 2.6 Value added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	3186		3713	4969	5363	6398	6625	6290	7270					
		UNIDO	3186	2505	3713	4969	5363	6208	6025	6290						
		NA1					4548		5710	6829	6504	7663	7379			
		NA2														
313	Beverages	283		290	399	351	577	502	595	705						
		283	215	290	399	351	577	505	595							
				1328		512	502	595	705	775						
314	Tobacco	774		751	1311	1254	1909	1273	1861	1876						
		774	935	751	1311	1254	1909	1273	1861	1876						
				801		1870	1273	1862	1577	1539						
321	Textiles	6685		11206	13173	11934	12382	13022	16875	20451						
		6685	6446	11206	13173	11934	12382	13022	16875							
					12175		11274	13022	16875	20451	20776					
322	Wearing apparel	85		92	111	181	300	340	421	434						
		85	86	92	111	181	300	340	421							
					111		300	340	421	434	489					
323	Leather and products	116		131	203	213	306	263	343	401						
		116	114	131	203	213	306	263	343							
					203		306	263	343	401	357					
324	Footwear	38		141	169	48	182	191	203	308						
		38	51	141	169	48	182	191	203							
				164		176	191	203	308	294						
331 a/	Wood products	183		289	379	367	412	455	493	571						
		183	195	289	379	367	412	455	493							
					348		373	455	493	571	578					

COUNTRY: INDIA

Value added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	151			38	42	49	46	48	46	66				
		47	38		38	42	49	46	48	46	66	62			
341	Paper and products	928			1157	2158	1979	1774	1647	1700	2190				
		928	747		1157	2158	1949	1774	1647	1700	2191	2330			
342 b/	Printing, publishing	800			1078	1172	1195	1401	1440	1492	1827				
		800	705		1078	1172	1195	1401	1440	1492	1827	2013			
351	Industrial chemicals	4482			3470	4915	4724	5148	4142	6028	6389				
		2243	1963		3470	4915	4724	5148	4142	6028	6389	6118			
352 c/	Other chemical products				3343	4430	4959	5599	5976	6959	7438				
		2239	2398		3343	4430	4959	5599	5976	6959	7438	8043			
353	Petroleum refineries	567			581	994	1078	1744	1941	1138	1346				
		567	594		581	994	1078	1744	1941	1138	1346	1597			
354	Petroleum, coal products	108			232	465	566	894	699	844	1018				
		108	76		232	465	566	894	699	844	1018	1191			
355	Rubber products	816			737	1100	1332	1253	1166	1531	1759				
		816	808		737	1100	1332	1253	1166	1531	1759	1843			

COUNTRY:COUNTRY:INDIA

Value added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	51 238	158		307 307	284 284 237	299 299	450 450 304	443 443 443	283 283 283	504 564	730			
361	Pottery, china etc.	87 87	93		143 143	117 117 117	153 153	161 161 161	179 179 179	210 210 210	263 263	1295			
362	Glass and products	199 199	186		284 284	389 389 338	356 350	369 309 311	395 395 395	508 508 508	474 474	527			
369	Non-metal products n.e.c.	1079 1079	944		1288 1288	1576 1576 1576	2016 2016	2264 2264 2264	2405 2405 2405	2257 2257 2257	2707 2707	3134			
371	Iron and steel	3278 3278	2070		5042 5042	6695 6695 6695	7488 7488	8019 8019 8019	7080 7080 7080	8378 8378 8378	9232 9232	11708			
372	Non-ferrous metals	719 719	483		653 653	1054 1054 1054	1106 1106	1053 1053 1653	1077 1077 1077	1191 1191 1191	1072 1072	634			
381	Metal products	1058 1167	1140		1494 1494	1845 1845 1709	1880 1880	2189 2189 2012	2224 2224 2224	2297 2297 2297	3171 3171	3312			
382	Machinery n.e.c.	2257 2257	2239		2404 2404	4745 4745 4403	5197 5197	6308 6308 5901	6090 6090 6270	6641 6641 6930	7558 7558	9377			

COUNTRY:COUNTRY:INDIA

Value added

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383 e/	Electrical machinery	2064			3482	4252	4938	5190	5225	5747	6958				
		2064	2247		3482	4252	4938	5190	5225	5747					
						3750		4555	5045	5458	6578	7847			
384	Transport equipment	2747			3536	4431	4460	5165	4933	5924	7310				
		2355	2575		3536	4431	4460	5165	4933	5924					
						3983		4658	4933	5924	7310	8556			
385	Professional goods	216			247	309	365	418	458	487	694				
		216	240		247	309	365	418	458	487					
						280		372	458	487	694	727			
390	Other industries	476			270	322	301	449	389	395	377				
			157		270	322	301	449	389	395					
		238				309		431	389	398	377	587			

Footnotes:

- a/ 1979 data used NAI source--M. of bamboo & cane furniture and fixture (ISIC 3320) is included.
- b/ 1979 data used NAI source--M. of pulp products, etc. like doll (ISIC) is included.
- c/ Data used UN1 source-----M. of inedible oils (ISIC 3115) is included.  
Data used NAI source-----M. of Dye-stuffs and Indigo (ISIC 3511) is included.
- d/ Data used UN source-----M. of prime, movers, boilers, etc. (ISIC 3813) is included.
- e/ Data used UN source-----M. of electric computers, etc. (ISIC 3825) is included.

COUNTRY: INDIA

2.7 Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2								2457 2457	2533 2533	1852				
											1969	1963			
313	Beverages								79 79	134 134	127				
											127	241			
314	Tobacco								54 54	79 79	57				
											57	58			
321	Textiles								2805 2805	2787 2787	3435				
											3435	5144			
322	Wearing apparel								68 68	58 58	42				
											42	50			
323	Leather and products								78 78	136 136	122				
											122	103			
324	Footwear								58 58	37 37	19				
											19	45			
331 a/	Wood products								94 94	32 62	84				
											85	98			

COUNTRY: INDIA

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures								10	8	3				
									10	8	3	4			
341	Paper and products								768	514	919				
									768	514	919	1414			
342	Printing, publishing								163	128	340				
b/									163	128	340	424			
351	Industrial chemicals								3993	4010	5988				
									3933	4010	5988	4023			
352	Other chemical products								1038	1309	1257				
c/									1038	1309	1141	1568			
353	Petroleum refineries								235	390	327				
									235	390	327	336			
354	Petroleum, coal products								912	1769	155				
									912	1769	155	89			
355	Rubber products								256	274	354				
									256	274	354	675			

COUNTRY:INDIA

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.								139	-96	273				
									139	-96	273	277			
361	Pottery, china etc.								11	47	40				
									11	47	40	69			
362	Glass and products								24	134	72				
									24	134	72	100			
369	Non-metal products n.e.c.								504	1088	911				
									504	1088	911	1393			
371	Iron and steel								3340	4304	5425				
									3340	4304	5425	6528			
372	Non-ferrous metals								620	465	382				
									620	465	382	1927			
381	Metal products								266	181	461				
									266	181	461	811			
382 <sub>a/</sub>	Machinery n.e.c.								1342	818	1431				
									1342	818	1527	1770			

COUNTRY: INDIA

## Gross Fixed Capital Formation

Unit: Million Rupees

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery								859	850	1168				
e/									859	850		1553			
											1072				
384	Transport equipment								898	8271	1667				
									898	8271		1871			
											1668				
385	Professional goods								107	105	172				
									107	105		133			
											172				
390	Other industries								66	62	87				
									66	62		43			
											87				

Footnotes:

- a/ 1979 data used NAI source--M. of bamboo & cane furniture and fixture (ISIC 3320) is included.
- b/ 1979 data used NAI source--M. of pulp products, etc. like doll (ISIC) is included.
- c/ Data used UN1 source-----M. of inedible oils (ISIC 3115) is included.  
Data used NAI source-----M. of Lye-stuffs and Indigo (ISIC 3511) is included.
- d/ Data used UN source-----M. of prime, movers, boilers, etc. (ISIC 3813) is included.
- e/ Data used UN source-----M. of electric computers, etc. (ISIC 3825) is included.



COUNTRY: INDIA

## 2.8 Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	94	94 93	96 96	91 91	92 92	100 100	104 104	112 112	130 130	122 122	121 121	134 134	159	
313	Beverages	105	110 111	103 104	108 107	104 95	100 100	115 124	120 142	126 153	134 139	132 142	154 177	175	
314	Tabacco	109	114	107	108	106	100	113	114	119	133	129	148		
321	Textiles	100	96 96	104 104	103 103	101 101	100 100	104 104	102 102	108 108	109 109	114 114	115 115	101	
322	Wearing apparel	110	113 115	101 103	102 104	99 101	100 100	100 101	88 88	80 82	83 83	77 77	94 95	85	
323	Leather and products	77	71 71	76 76	97 97	92 92	100 100	87 87	88 88	60 60	61 61	87 87	79 79	72	
324	Footwear	98	101	89	91	88	100	96	90	72	85	78	91		
331	Wood products	66	72 72	65 65	47 47	98 98	100 100	109 109	124 124	117 117	123 123	115 115	83 83	101	

COUNTRY: INDIA

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	66	72	65	47	98	100	109	124	117	123	115	83		
341	Paper and products	89	94 93	94 94	101 101	107 107	100 100	103 103	104 104	112 112	114 114	121 121	136 136	141	
342	Pulp, paper etc.	86	74 91	84 98	97	99	100	117	104	98	89	97			
351	Industrial chemicals	66	74	84	91 91	88 88	100 100	120 120	136 136	146 146	150 150	148 147	171 171	183	
352	Other chemical products	90	98 98	107 107	102 102	101 101	100 100	116 116	123 123	133 133	135 135	134 134	146 147	151	
353	Petroleum refineries	84	89 89	89 89	93 93	94 95	100 100	104 104	111 111	118 118	128 128	115 115	134 134	146	
354	Petroleum, coal products	111	116	113	105	89	100	102	110	119	116	110	80		
355	Rubber products	79	88 88	93 93	92 92	98 98	100 100	99 99	104 105	116 116	116 116	122 122	124 124	133	

COUNTRY: INDIA

Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	50	59	69	79	98	100	108							
361	Pottery, china etc.	77	87 87	107 107	112 112	121 121	100 100	113 113	117 117	122 122	104 104	92 92	76 76	84	
362	Glass and products	103	117 117	114 114	103 103	95 95	100 100	116 116	121 121	137 137	154 154	163 163	164 164	166	
369	Non-metal products n.e.c.	83	89 89	84 94	96 96	99 99	100 100	119 119	125 125	127 127	133 133	135 135	144 144	152	
371	Iron and steel	80	79 79	85 85	83 83	87 87	100 100	120 120	124 124	124 124	117 117	113 113	125 125	133	
372	Non-ferrous metals	112	125 125	127 127	115 115	102 102	100 100	120 120	126 126	127 127	134 134	127 126	140 140	150	
381	Metal products	87	85 85	86 86	86 86	98 98	100 100	106 106	110 110	124 124	131 131	121 121	120 120	127	
382	Machinery n.e.c.	81	86 86	79 79	90 90	96 96	100 100	103 103	113 113	127 127	128 128	138 138	147 147	150	



III.      Convertor between ISIC and NIC (National Industrial  
          Classification)

ISIC	NIC	NIC Sector	1
311A	200	SLAUGHTERING, PREPARATION AND PRESERVATION OF MEAT	
311A	201	MANUFACTURE OF DAIRY PRODUCTS	
311A	202	CANNING AND PRESERVATION OF FRUITS AND VEGETABLES	
311A	203	CANNING, PRESERVING & PROCESSING OF FISH, AND SIMILAR	
311A	204	GRAIN MILL PRODUCTS	
311A	205	MANUFACTURE OF BAKERY PRODUCTS	
311A	206	MANUFACTURE & REFINING OF SUGAR (VACUUM PAN SUGAR FACTORIES)	
311A	207	PRODUCTION OF INDIGENOUS SUGAR, EOCRA, KHANISFI, GUR, ETC.	
311A	208	PRODUCTION OF COMMON SALT	
311A	209	MANUFACTURE OF CCCCA, CHOCOLATE & SUGAR CONFECTIONERY	
311A	210	MANUFACTURE OF HYDROGENATED OILS, VANASPATHI GHEE, ETC.	
311A	211	MNF. OF OTHER EDIBLE OILS & FATS E.G. MUSTARD OIL, ETC.	
311A	212	TEA PROCESSING	
311A	213	COFFEE CURING, ROASTING AND GRINDING	
311A	214	CASHEW NUT PROCESSING LIKE DRYING, SHELLING, ROASTING, SALTING	
311A	215	MANUFACTURE OF ICE	
311A	216	MANUFACTURE OF PREPARED ANIMAL FEEDS	
311A	217	MANUFACTURE OF STARCH	
311A	219	MANUFACTURE OF FOOD PRODUCTS NOT ELSEWHERE CLASSIFIED	
311A	315	MANUFACTURE OF EDIBLE OILS	
313	220	DISTILLING, RECTIFYING AND BLENDING OF SPIRITS	
313	221	WINE INDUSTRIES	
313	222	MALT LIQUORS AND MALT	
313	223	PRODUCTION OF COUNTRY LIQUOR AND TODDY	
313	224	SOFT DRINKS AND CARBONATED WATER INDUSTRIES	
314	225	TOBACCO STEMMING, REDRYING & ALL OTHER OPERATIONS	
314	226	MANUFACTURE OF BIDI	
314	227	MNF. OF CIGARS, CIGARETTES, CHEPCT & CIGARETTES TOBACCO	
314	228	MANUFACTURE OF CHEWING TOBACCO, ZAFDA AND SNUFF	
314	229	MANUFACTURE OF TOBACCO & TOBACCO PRODUCTS NEC	
321	230	COTTON GINNING, CLEANING AND Baling	
321	231	COTTON SPINNING, WEAVING, SHRINKING, SANFORIZED, MERCERISING	
321	232	PRINTING, DYEING AND BLEACHING OF COTTON TEXTILES	
321	233	COTTON SPINNING OTHER THAN IN MILLS (CHARKHA)	
321	234	PRODUCTION OF KHADI	
321	235	WEAVING & FINISHING OF COTTON TEXTILES IN HAMILCCMS EX. KHADI	
321	236	WEAVING AND FINISHING OF COTTON TEXTILES IN KOWF ICCMS	
321	239	COTTON TEXTILES NOT ELSEWHERE CLASSIFIED	
321	240	WOOL CLEANING Baling AND PRESSING	
321	241	WOOL SPINNING, WEAVING AND FINISHING IN MILLS	
321	242	WOOL SPINNING AND WEAVING (OTHER THAN IN MILLS)	
321	243	DYEING AND BLEACHING OF WOOLLEN TEXTILES	
321	244	MANUFACTURE OF WOOL NOT ELSEWHERE CLASSIFIED	
321	245	SPINNING, WEAVING AND FINISHING OF SILK TEXTILES	
321	246	PRINTING, DYEING AND BLEACHING OF SILK TEXTILES	
321	247	SPINNING, WEAVING & FINISHING OF OTHER TEXTILES, FAYONS, ETC	
321	248	PRINTING, DYEING AND BLEACHING OF SYNTHETIC TEXTILES	
321	249	SILK AND SYNTHETIC FIBRES TEXTILES NOT ELSEWHERE CLASSIFIED	
321	250	JUTE AND MESTA PRESSING AND Baling	
321	251	JUTE AND MESTA SPINNING AND WEAVING	
321	252	DYEING, PRINTING AND BLEACHING OF JUTE TEXTILES	
321	253	PREPARING, SPINNING, WEAVING & FINISHING OF HEMP & OTHER	
321	259	MANUFACTURE OF JUTE BAGS AND OTHER JUTE TEXTILES NEC	
321	260	KNITTING MILLS	
321	261	MNF. OF ALL TYPES OF THREADS, CORDAGE, ROPES, TWINES, NITS, ETC.	

ISIC	NIC	NIC Sector
321	262	EMBROIDERY AND MAKING OF CREPES, LACES AND FRINGES
321	263	WEAVING CARPETS, RUGS AND OTHER SIMILAR TEXTILE PRODUCTS
321	266	MNF. OF MADE UP TEXTILE GOODS (EXCEPT GARMENTS) SUCH AS CURTAINS
321	267	MNF. OF WATER PROOF TEXTILES SUCH AS OIL CLOTH, TARPULIN ETC
321	268	MANUFACTURE OF COIR AND COIR PRODUCTS
321	269	MNF. OF TEXTILES NEC LIKE LINOLEUM, PADDING, WALLING, ETC.
322	264	MNF. OF ALL TYPES OF TEXTILES GARMENTS INCL. WEARING APPAREL
322	265	MANUFACTURE OF RAINCOATS, HATS ETC.
322	292	MNF. OF WEARING APPAREL LIKE COATS, GLOVES, ETC. OF LEATHER
322	295	MANUFACTURE OF WEARING APPAREL OF FUR AND FELLS
323	290	TANNING, CURING, FINISHING, EMBROIDERING & JAPANNING OF LEATHER
323	293	MNF. OF LEATHER CONSUMER GOODS (OTHER THAN SHOES) & FOOTWEAR
323	294	SCRAPE, CURRYING, TANNING, BLEACHING & DYEING OF FUR & OTHER
323	296	MANUFACTURE OF FUR AND SKIN RUGS AND OTHER ARTICLES
323	299	MANUFACTURE OF LEATHER AND FUR PRODUCTS NEC
324	291	MNF. OF FOOTWEAR (EXCL. REPAIR) EXCEPT VULCANIZED RUBBER
331	270	MANUFACTURE OF VENEER, PLYWOOD AND THEIR PRODUCTS
331	271	SAWING AND PLANING OF WOOD (OTHER THAN PLYWOOD)
331	272	MNF. OF WOODEN & CANE BOXES, CRATES, DRUMS, BIRKELS & OTHER
331	273	MNF. OF STRUCTURAL WOODEN GOODS (INCL. TRAFFIC LIGHTS)
331	274	MNF. OF WOODEN INDUSTRIAL GOODS, SUCH AS BENCHES & SIMILAR
331	275	MANUFACTURE OF CORK AND CORK PRODUCTS
331	279	MANUFACTURE OF WOOD, BAMBOO AND CANE PRODUCTS NIC
332	276	MANUFACTURE OF WOODEN FURNITURE AND FIXTURES
332	277	MANUFACTURE OF BAMBOO AND CANE FURNITURE AND FIXTURES
341	280	MANUFACTURE OF PULP, PAPER & PAPER BOARD INCLUDING NEWSPRINT
341	281	MANUFACTURE OF CONTAINER AND BOXES OF PAPER AND PAPER BOARD
341	282	MANUFACTURE OF PULP PRODUCTS NEC LIKE DOLLS
341	283	MANUFACTURE OF PAPER AND PAPER BOARD ARTICLES NEC
342	284	PRINTING AND PUBLISHING OF NEWSPAPERS
342	285	PRINTING & PUBLISHING OF PERIODICALS, BOOKS, JOURNAL, ETC.
342	286	PRINTING OF BANK NOTES, CURRENCY NOTES, POSTAGE STAMPS, ETC.
342	287	ENGRAVING, ETCHING, BLOCK MAKING, ETC.
342	288	BOOK BINDING
342	289	PRINTING, PUBLISHING & ALLIED ACTIVITIES NIC
351	310	MNF. OF BASIC & INDUSTRIAL ORGANIC & INORGANIC CHEMICALS & GASES
351	311	MANUFACTURE OF FERTILIZERS AND PESTICIDES
351	316	MNF. OF TURPENTINE, SYNTHETIC RESINS, PLASTIC MATERIALS
352	312	MANUFACTURE OF PAINTS, VARNISHES AND LACQUERS
352	313	MANUFACTURE OF DRUGS AND MEDICINES
352	314	MNF. OF PERFUMES, COSMETICS, LOTIONS, HAIR DRESSINGS, IN ANY FORM
352	317	MANUFACTURE OF MATCHES
352	318	MANUFACTURE OF EXPLOSIVES AND AMMUNITION AND FIRE WORKS
352	319	MANUFACTURE OF CHEMICAL PRODUCTS NEC
353	304	PETROLEUM REFINERIES
354	305	MANUFACTURE OF PRODUCTS OF PETROLEUM NEC
354	306	PRODUCTS OF COAL TAR IN CCKLOVENS
354	307	MANUFACTURE OF OTHER COAL & COAL TAR PRODUCTS NEC
355	300	TYRE AND TUBE INDUSTRIES
355	301	MNF. OF FOOTWEAR MADE PRIMARILY OF VULCANIZED RUBBER
355	302	MANUFACTURE OF RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED
356	303	MNF. OF PLASTIC PRODUCTS NEC (EXCEPT HOUSE FURNISHING)
361	320	MANUFACTURE OF STRUCTURAL CLAY PRODUCTS
361	322	MANUFACTURE OF FARTHEN WARE AND FARTHEN ETC.

Including 3122 M. of Dye-Stuff (ISIC 351)  
3123 M. of Indigo (ISIC 351)

362	321	MANUFACTURE OF GLASS AND GLASS PRODUCTS
369	324	MANUFACTURE OF CEMENT, LIME AND PLASTER
369	325	MANUFACTURE OF MICA PRODUCTS
369	326	MNF. OF STRUCTURAL STONE GOODS, STONE DRESSING & STONWARE
369	327	MANUFACTURE OF EARthen & PLASTER STATUES & OTHER PRODUCTS
369	328	MANUFACTURE OF ASBESTOS, CEMENT AND OTHER CEMENT PRODUCTS
369	329	MNF. OF MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS
371	330	IRON AND STEEL INDUSTRIES
371	331	FOUNDRIES FOR CASTING AND FORGING IRON AND STEEL
371	332	MANUFACTURE OF FERRIC-ALLOYS
372	333	COPPER MANUFACTURING
372	334	BRASS MANUFACTURING
372	335	ALUMINIUM MANUFACTURING
372	336	ZINC MANUFACTURING
372	339	OTHER NON-FERROUS METAL INDUSTRIES
381	340	MNF. OF FABRICATED METAL PRODUCTS SUCH AS METAL CANS
381	341	MANUFACTURE OF STRUCTURAL METAL PRODUCTS
381	342	MANUFACTURE OF FURNITURE AND FIXTURES, PRINCIPALLY OF METAL
381	343	MANUFACTURE OF HAND TOOLS AND GENERAL HARDWARE
381	344	ENAMELLING, JAPANNING, LACQUERING, GALVANIZING OF METAL PROD.
381	345	MANUFACTURE OF METAL UTENSILS, CUTLERY AND KITCHENWARE
381	347	MNF. OF METAL PRODUCTS EXCEPT MACHINERY & TRANSPORT EQUIP. NEC
382	350	MANUFACTURE OF AGRICULTURAL MACHINERY AND EQUIPMENT & PARTS
382	351	MNF. & REPAIR OF DRILLS, COAL CUTTING MACHINES, EARTH MOVING
382	352	MNF. OF PRIME MOVERS, BOILERS & STEAM GENERATING PLANTS
382	353	INDUSTRIAL MACHINERY FOR FOOD AND TEXTILE INDUSTRIES
382	354	INDUSTRIAL MACHINERY FOR OTHER THAN FOOD & TEXTILE INDUSTRIES
382	355	MNF. OF REFRIGERATORS, AIRCONDITIONERS & FIRE FIGHTING EQUIP
382	356	MNF., ALTERATION & REPAIR OF GENERAL ITEMS OF NON-ELECTRICAL
382	357	MANUFACTURE OF MACHINE TOOLS, THEIR PARTS AND ACCESSORIES
382	358	MNF. OF OFFICE COMPUTING & ACCOUNTING MACHINERY & ACCESSORIES
382	359	MNF. & REPAIR OF NON-ELECTRICAL MACHINERY, EQUIPMENT NEC
382	366	MNF. OF ELECTRONIC COMPUTERS CONTROL INSTRUMENTS & OTHER
383	360	MNF. OF ELECTRICAL INDUSTRIAL MACHINERY & APPARATUS & PARTS
383	361	MANUFACTURE OF INSULATED WIRES AND CABLES
383	362	MANUFACTURE OF DRY AND WET BATTERIES
383	363	MNF. OF ELECTRICAL APPARATUS, APPLIANCES & OTHER PARTS
383	364	MNF. OF RADIO & TELEVISION TRANSMITTING & RECEIVING SETS
383	365	MNF. & REPAIR OF RADIOGRAPHIC X-RAY APPARATUS & TUBES & PARTS
383	367	MANUFACTURE OF ELECTRONIC COMPONENTS, & ACCESSORIES NEC
383	369	MNF. OF ELECTRICAL MACHINERY, APPARATUS APPLIANCES & SUPPLIES
384	370	SHIP BUILDING AND REPAIRING
384	371	MANUFACTURE OF LOCOMOTIVES AND PARTS
384	372	MANUFACTURE OF RAILWAY WAGONS AND COACHES AND PARTS
384	373	MANUFACTURE OF OTHER RAIL ROAD EQUIPMENT
384	374	MANUFACTURE OF MOTOR VEHICLES AND PARTS
384	375	MANUFACTURE OF MOTOR-CYCLES AND SCOOTERS AND PARTS
384	376	MANUFACTURE OF BICYCLES AND CYCLE-RICKSHAWS AND PARTS
384	377	MANUFACTURE OF AIRCRAFT AND ITS PARTS
384	378	BULLOCK-CARTS, PUSH-CARTS, HAND CARTS, ETC.
384	379	MANUFACTURE OF TRANSPORT EQUIPMENT AND PARTS NEC
385	380	MANUFACTURE OF MEDICAL, SURGICAL AND SCIENTIFIC EQUIPMENTS
385	381	MNF. OF PHOTOGRAPHIC & OPTICAL GOODS (EXCL. PHOTO CHEMICALS)
385	382	MANUFACTURE OF WATCHES AND CLOCK
390	383	MANUFACTURE OF JEWELLERY AND RELATED ARTICLES

Including 3521 M. of Boilers (ISIC 381)



ISIC	NIC	NIC Sector	4
390	384	MINTING OF COINS	
390	385	MANUFACTURE OF SPORTS AND ATHLETIC GOODS	
390	386	MANUFACTURE OF MUSICAL INSTRUMENTS	
390	387	MNF. OF STATIONERY ARTICLES LIKE FOUNTAIN PENS, PENCILS, ETC	
390	389	MNF. OF MISCELLANEOUS PRODUCTS NEC SUCH AS COSTUME JEWELLERY	

#### IV. Commodity Balance Sheet

##### 1. Explanatory Notes

##### 2. Statistical Tables

- |   |   |
|---|---|
| 1. Wheat Flour                                | 22. Tires for Bicycles and Motor Cycles         |
| 2. Refined Sugar                              | 23. Tires for Road Motor Vehicles               |
| 3. Tea  | 24. Inner Tubes, Rubber for Road Motor Cars     |
| 4. Cigarettes                                 | 25. Glass, Drawn or Blown, in Rectangles        |
| 5. Cotton Yarn, Pure and Mixed                | 26. Cement                                      |
| 6. Cotton Woven Fabrics                       | 27. Pig Iron (including Cast Iron)              |
| 7. Jute Fabrics                               | 28. Aluminium, Unwrought                        |
| 8. Jute Manufactures                          | 29. Aluminium Plates, Sheet, Strip and Foil     |
| 9. Footwear (Leather)                         | 30. Typewriters                                 |
| 10. Plywood                                   | 31. Diesel Engines, Stationery                  |
| 11. Paper and Paper Board                     | 32. Motors, Electric of One Horsepower and over |
| 12. Hydrochloric Acid                         | 33. Transformers of 5 KVA and over              |
| 13. Nitrogenous Fertilizer                    | 34. Radio Receivers                             |
| 14. Sulphuric Acid                            | 35. Dry Cell Batteries                          |
| 15. Synthetic Rubber                          | 36. Storage Batteries                           |
| 16. Acetate Cellulosic Filament               | 37. Fluorescent Lamps                           |
| 17. Viscose Cellulosic Rayon Filament         | 38. Buses and Trucks                            |
| 18. Synthetic Filament<br>(Nylon & Polyester) | 39. Passenger Cars (excluding Bus)              |
| 19. Paints and Vanishes                       | 40. Motor Cycles and Scooters                   |
| 20. Soap                                      | 41. Bicycles                                    |
| 21. Lamp Oil and White Spirit                 |   |

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL *	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG *	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL *	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS *	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX *	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN *	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT *	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS				
FLN	FLASKS	SMM	SQUARE METRES		
FTN	FEET	SMN	SQUARE METRES		
GIN	IMPERIAL GALLONS	SPM	NUMBER OF SPINDLES		
GPN	PROOF GALLONS				
GRN	GROSS	STN	SHORT TONS		

Note: The codes put on "\*" are prepared by IDE.

CUURENCY UNIT CODEAppendix II

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHILIPPINES
S\$	SD	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Source

Source No.

1. UN, Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics.
2. UN, Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics.
3. ESCAP, Statistical Yearbook.
4. AIDXT(International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base
7. UNIDO, Production Index Data Base.
8. UN, Yearbook of International Trade Statistics.
9. UN, Statistical Yearbook.
- 10.
11. Central Statistical Organisation, Annual Statistical Abstract.
12. Central Statistical Organisation, Monthly Statistical Abstract.
13. Tea Board, Tea Statistics.
14. Department of Commercial Intelligence and Statistics, Foreign Trade Statistics of India, Vol. I. Exports and Re-exports. Vol. II. Imports.

Country: India

1. Commodity: Wheat Flour

ISIC Code		311601							Note: a/ Large flour mills only. b/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code		04601							
Source	Quantity				Value				
	a/ 11	b/ 14	b/ 14		b/ 14	b/ 14			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM		TM	TM			1000IR	1000IR	
1970	2429000		8952	2711			8828	4828	
1971	2525000		3278	6201			3359	5459	
1972	2834000		2626	936			2690	1173	
1973	1994000		42	5115			32	8608	
1974	1746000		-	777			-	970	
1975	1682000		-	3797			-	10294	
1976	1784000		-	4324			-	12568	
1977	2132000		8106	5780			14476	12508	
1978	11987000		76300	8663			127139	23605	
1979	-		36360	21912			53275	32779	
1980	-		500	8383			900	23008	
1981	-		-	61486			-	129794	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

2. Commodity: Refined Sugar

ISIC Code	311804								Note:
NSIC Code									
SITC Code	0612								
NSTC Code									
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000\$	1000\$	
1970	4269000		65916	-			6822	-	
1971	3652000		98907	3000			16304	800	
1972	3413000		5624	3652			844	932	
1973	3669000		58602	27			15553	8	
1974	4133000		352262	25			189128	8	
1975	4646000		903705	-			488041	-	
1976	4640000		814925	-			291871	-	
1977	4637000		255559	-			63416	-	
1978	6557000		473457	-			101002	-	
1979	5614000		626694	-			160892	-	
1980	4191000		-	-			-	-	
1981	5546000		-	-			-	-	
1982	8445000		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: India

3. Commodity: Tea

ISIC Code	3121*								Note:
NSIC Code									
SITC Code									
NSTC Code	0741								
	Quantity				Value				
Source	13		8	8			8	8	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		TN				1000\$	1000\$	
1970	316300		200155	-			196192	-	
1971	331400		191563	-			193078	-	
1972	351300		211037	-			212903	-	
1973	367000		188192	-			205909	-	
1974	388400		205909	-			235075	-	
1975	379200		219410	-			292147	-	
1976	399200		237325	-			304870	-	
1977	426900		226148	-			604610	-	
1978	432700		165939	-			412436	-	
1979	403900		162910	-			338752	-	
1980	438500		187021	-			452268	-	
1981	437400		-	-			-	-	
1982	437200		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

4. Commodity: Cigarettes

ISIC Code	314007								Note:
NSIC Code									
SITC Code	1222								
NSTC Code									
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000000NDM		TM	TM			1000\$	1000\$	
1970	62930		27	5			34	20	
1971	65778		1107	5			1902	25	
1972	62080		1304	1			2753	4	
1973	64140		649	1			1424	3	
1974	60488		238	17			519	113	
1975	59283		1142	24			3328	160	
1976	67201		1005	14			2560	92	
1977	67996		695	9			1906	60	
1978	70913		333	20			904	118	
1979	78578		977	8			3005	60	
1980	77376		-	-			-	-	
1981	83283		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

5. Commodity: Cotton Yarn, Pure and Mixed

ISIC Code	321109								Note:
NSIC Code									
SITC Code	6513, 6514								
NSTC Code									
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	984266		31171	1			37636	5	
1971	914556		13210	-			19525	-	
1972	1002104		22976	0			32879	5	
1973	1029028		12477	0			21809	1	
1974	1032465		13346	1			33145	4	
1975	1029798		4643	22			11015	84	
1976	1062062		16089	0			29998	4	
1977	1009415		16611	2			43422	7	
1978	1107021		7175	1			21144	23	
1979	1100560		7484	3			22938	26	
1980	1158701		-	-			-	-	
1981	1129246		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

6. Commodity: Cotton Woven Fabrics

ISIC Code	321128								Note:
NSIC Code									
SITC Code	6521								
NSTC Code									
	Quantity				Value				
Source	9		a/ 3	4			a/ 3	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000MM		1000MM	1000MM			1000\$	1000\$	
1970	7849100		452000	-			98327	24	
1971	-		422000	-			101561	29	
1972	8024900		511000	-			129238	24	
1973	7770400		737000	-			219446	18	
1974	8283900		436000	-			238132	4	
1975	8034100		487000	-			160845	82	
1976	7945400		660000	-			274529	29	
1977	6901800		498000	-			301237	40	
1978	7324900		474000	39			240839	85	
1979	7531600		550000	2			338771	35	
1980	8314100		581000	-			-	-	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

7. Commodity: Jute Fabrics

ISIC Code	321140B								Note: a/ Years beginning April of of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-6591		B-6545						
	Quantity				Value				
Source	6		a/14	a/14			a/14	a/14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000IR	1000IR	
1970	1060900		353017	-			1313358	-	
1971	1273300		4379	-			1926955	-	
1972	1256300		344302	-			1660191	-	
1973	1164100		335729	-			1536546	-	
1974	1083400		308915	-			1803589	-	
1975	1135000		312023	-			1558393	-	
1976	1191000		266909	-			1252100	-	
1977	1184700		282980	-			1384773	-	
1978	1208800		189629	-			957927	-	
1979	1150600		532403	-			2177220	-	
1980	1384900		460190	-			1788583	-	
1981	1365200		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

8. Commodity: Jute Manufactures

ISIC Code	3212*							Note:
NSIC Code								
SITC Code	6534							
NSTC Code								
	Quantity				Value			
Source	12		4	4			4	4
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	TM		TM	TM			1000\$	1000\$
1970	954200		26729	1107			7722	193
1971	1086900		16264	-			4539	-
1972	1104000		63448	5425			18901	865
1973	1037200		20321	62122			4680	16439
1974	946800		74793	13010			20918	2602
1975	1020000		46799	14815			14511	2702
1976	1040300		16088	67481			3233	10691
1977	1042200		10082	42			2247	5
1978	1178000		7716	9197			1724	1574
1979	1117900		8153	4146			2469	751
1980	-		-	-			-	-
1981	-		-	-			-	-
1982	-		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Country: India

9. Commodity: Footwear (Leather)

ISIC Code	324004								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	851020								
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000PRM		1000PRM	1000PRM			1000IR	1000IR	
1970	7711		4832	-			76168	-	
1971	8350		5316	-			70522	-	
1972	7527		5864	-			84650	-	
1973	7313		6208	-			89644	-	
1974	6946		8123	-			131733	-	
1975	8964		7192	-			152150	-	
1976	8252		10276	-			207915	-	
1977	8253		8399	-			167264	-	
1978	5773		7311	-			184784	-	
1979	7724		8845	-			258502	-	
1980	6986		9027	-			276508	-	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

10. Commodity: Plywood

ISIC Code	331116								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-63121 B-6342								
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000CMM		TM	TM			1000IR	1000IR	
1970	128		6369	7			13001	20	
1971	144		4022	103			9891	596	
1972	130		3051	21			8415	123	
1973	126		14398	57			38327	273	
1974	143		18348	65			64499	134	
1975	127		9820	30			37413	100	
1976	141		21593	10			81906	57	
1977	149		7549	104			41414	426	
1978	176		4403	12			22854	63	
1979	180		4268	82			30397	347	
1980	180		4182	83			24674	347	
1981	-		-	654			-	6395	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: India

11. Commodity: Paper and Paper Board

ISIC Code	3411								Note:
NSIC Code									
SITC Code	641								
NSTC Code									
	Quantity				Value				
Source	12		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	757700		21596	149568			5136	30504	
1971	784600		11417	198553			2587	41513	
1972	745500		10698	181749			2594	39187	
1973	763500		15998	163663			3899	41182	
1974	782200		15917	146465			5807	59611	
1975	814400		6871	157301			2941	83860	
1976	875100		3253	128083			1450	64033	
1977	917400		5516	174588			3518	86086	
1978	985600		6951	217065			4883	104073	
1979	1009300		3472	308558			2929	162434	
1980	-		-	-			-	-	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

12. Commodity: Hydrochloric Acid

ISIC Code	351146								Note: a/ years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-5133102				B-5222102				
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000IR	1000IR	
1970	54608		6056	0			3730	19	
1971	69109		10898	5			6878	94	
1972	77843		14339	0			9714	11	
1973	83381		32324	3			26198	57	
1974	110100		23552	82			30570	239	
1975	165946		16278	0			14022	9	
1976	228324		15792	1			10708	17	
1977	179113		14617	7			6424	117	
1978	200905		13145	4			10660	180	
1979	201648		8184	5			6761	697	
1980	193850		4896	1			6832	59	
1981	145035		-	2			-	123	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

13. Commodity: Nitrogenous Fertilizer

ISIC Code		351201							
NSIC Code									
SITC Code									
NSTC Code		A-5611				B-5621			
		Quantity				Value			
Source	6		a/ 14	a/ 14			a/ 14	a/14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000IR	1000IR	
1970	699000		1	977662			9	519599	
1971	828000		0	823091			0	357415	
1972	908000		7250	845353			6723	388257	
1973	966000		-	916335			-	688951	
1974	970000		-	1601838			-	2695188	
1975	1109000		-	1168100			-	2711625	
1976	1332000		-	1483266			-	1604958	
1977	1648000		-	1277663			-	1539347	
1978	1723000		-	2250736			-	2731657	
1979	1839000		-	1770526			-	2449936	
1980	2023000		2	2000347			18	3670808	
1981	1923000		-	1394411			-	2912416	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Note:

a/ Years beginning April of year stated.

Country: India

14. Commodity: Sulphuric Acid

ISIC Code	351147								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-5133302		B-5222202						
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		TN	TN			1000 IR	1000 IR	
1970	1189000		890	72			627	187	
1971	1311000		1426	8			922	28	
1972	1302000		1439	6			1194	23	
1973	1330000		973	2			896	25	
1974	1431000		3052	2			4935	26	
1975	1376000		1880	6			3506	36	
1976	1635000		1124	0			1884	1	
1977	2017000		1822	2			2892	95	
1978	2086000		538	7			1048	173	
1979	2228000		217	4			353	189	
1980	2217000		123	450			284	560	
1981	2133000		-	7			-	285	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

15. Commodity: Synthetic Rubber

ISIC Code	351301								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-2312		B-2331						
	Quantity				Value				
Source	6		a/14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipr	Export	Import	
Unit	TM		TM	TM			1000 IR	1000 IR	
1970	31101		-	5004			-	27880	
1971	33045		-	5856			-	31553	
1972	26471		-	5825			-	32412	
1973	20833		200	5896			1715	35190	
1974	19141		669	7454			4084	65690	
1975	22960		5	6391			42	65162	
1976	23483		3	7813			87	79545	
1977	28359		32	6490			278	68908	
1978	25590		21	13540			201	140864	
1979	32771		1	17670			16	189540	
1980	22625		4	14760			118	189228	
1981	-		-	30487			-	395262	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

16. Commodity: Acetate Cellulosic Filament

ISIC Code	351307								Note: a/ Years beginning April of the year stated.
NSIC Code									
SITC Code									
NSTC Code	65172		651712						
	Quantity				Value				
Source	12		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	KGM		KGM	KGM			1000IR	1000IR	
1970	1959000		48257	-			621	-	
1971	1622000		33500	-			423	-	
1972	1542000		2854	-			117	-	
1973	1613000		-	12415			-	110	
1974	2009000		-	16266			-	273	
1975	1888000		178	3690			9	58	
1976	1825000		11020	484			226	8	
1977	2174000		5366	-			240	-	
1978	2095000		-	17491			-	531	
1979	2144000		4166	24290			86	1016	
1980	-		-	17857			-	612	
1981	-		-	14118			-	610	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

17. Commodity: Viscose Cellulosic Rayon Filament

ISIC Code		351307								Note: a/ Years beginning April of year stated.
NSIC Code										
SITC Code										
NSTC Code		A-651710, 651711		B-65171						
		Quantity				Value				
Source	12		a/ 14	a/ 14			a/ 14	a/ 14		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
Unit	KGM		KGM	KGM			1000IR	1000IR		
1969	-		664598	-			4648	-		
1970	35052000		2465735	2246			22227	61		
1971	36865000		1668326	11834			13021	116		
1972	39633000		793723	28000			6966	294		
1973	36661000		1703649	-			24106	-		
1974	36624000		353044	4005			5642	87		
1975	33065000		119472	231575			3130	3897		
1976	41432000		1719083	413500			25609	898		
1977	40531000		1230407	1117840			19898	25555		
1978	42641000		1170901	4449258			21127	99218		
1979	-		1255841	3362474			23691	87656		
1980	-		1382425	2810817			27012	69473		
1981	-		-	3503069			-	88942		
1982	-		-	-			-	-		
1983	-		-	-			-	-		
1984	-		-	-			-	-		

Country: India

18. Commodity: Synthetic Filament (Nylon &amp; Polyester)

ISIC Code		351337								Note: a/ Years beginning April of year state.
NSIC Code										
SITC Code										
NSTC Code		A-6514, 6515, 6516		B-6516						
Source		Quantity				Value				
	12		a/ 14	a/ 14			a/ 14	a/ 14		
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
	KGM		KGM	KGM			1000IR	1000IR		
1970	10164000		688129	3671010			7612	43968		
1971	10198000		180726	4879595			1975	57174		
1972	12093000		219664	3235608			1527	31685		
1973	12774000		510440	2415068			7737	34269		
1974	10397000		93882	4472589			2187	98771		
1975	15868000		19754	5373069			311	65106		
1976	17871000		234025	2205069			3204	38756		
1977	19372000		108406	3961327			2327	73324		
1978	24380000		198239	12785826			4738	248109		
1979	-		253608	12519754			7933	271550		
1980	-		96360	14390722			6126	313306		
1981	-		-	28125430			-	633120		
1982	-		-	-			-	-		
1983	-		-	-			-	-		
1984	-		-	-			-	-		



Country: India

19. Commodity: Paints and Vanishes

ISIC Code		352101*				Note:			
NSIC Code						a/ Years beginning April of year stated.			
SITC Code									
NSTC Code		A-5333		B-5334					
		Quantity				Value			
Source	11	a/ 14	a/ 14		a/ 14	a/ 14			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM		TM	TM			1000 IR	1000 IR	
1970	65217		8084	-			41122	9890	
1971	67995		-	-			25615	10982	
1972	72848		-	-			42048	10541	
1973	72828		-	-			27771	16853	
1974	60036		-	-			87086	20978	
1975	61848		-	-			79389	20834	
1976	73699		-	-			83649	18942	
1977	75268		9039	430			91667	16610	
1978	88335		7663	552			78179	21361	
1979	-		8771	385			11460	23580	
1980	-		7469	400			115431	20706	
1981	-		-	473			-	22035	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India20. Commodity: Soap

ISIC Code	352301								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	5541								
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000IR	1000IR	
1970	232400		1660	99			5862	353	
1971	262750		2082	133			6444	798	
1972	284400		1924	14			7378	129	
1973	237800		848	36			3844	134	
1974	223600		1166	27			8900	181	
1975	270500		1408	95			9237	2422	
1976	269500		1004	52			7049	488	
1977	294500		1394	88			11034	1415	
1978	337400		1203	98			12143	1282	
1979	289745		1441	79			17812	1181	
1980	308775		10285	400			148070	2489	
1981	-		-	909			-	14858	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

21. Commodity: Lamp Oil and White Spirit

Source	Quantity				Value			
	6		a/ 14	a/ 14			a/ 14	a/ 14
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import
	TM		TM	TM			1000\$	1000\$
1970	3021000		257247	34688200			2442	7697
1971	3110000		15974	599518			1361	21264
1972	2950000		42353	2241110			3676	52564
1973	2804000		75453	1508790			5533	67856
1974	2182000		98060	1247280			10864	139244
1975	2435000		77578	1228770			10135	141784
1976	2737000		52778	1041180			7224	109419
1977	2620000		49023	1492550			7943	176773
1978	2560000		20339	3012770			2742	433745
1979	2807000		-	-			7770	-
1980	2498000		-	-			-	-
1981	2989000		-	-			-	-
1982	-		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Note:

a/ Years beginning April of year stated.

Country: India

22. Commodity: Tires for Bicycles and Motor Cycles

ISIC Code		355107							Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code		A-6291022, 6291024			B-6254001, 6254002				
Source	Quantity				Value				
	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000 IR	1000 IR	
1970	21592000		1054055	13556			4363	145	
1971	21342000		868218	8757			4002	176	
1972	22522000		946737	2			4957	0	
1973	21959000		1035458	9508			6315	272	
1974	25936000		1160207	12055			12729	128	
1975	25585000		812055	81			6347	4	
1976	24622000		1129525	5059			8645	223	
1977	27954000		1403148	35			11416	4	
1978	32563000		786318	1712			7777	24	
1979	30898000		511639	1			4988	0	
1980	27893000		1692684	1			20218	1	
1981	25620000		-	18			-	11	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

23. Commodity: Tire for Road Motor Vehicles

ISIC Code	355110								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-6291023				B-6251000				
	Quantity				Value				
Source	8		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000IR	1000IR	
1970	3058000		34938	683			3174	142	
1971	3512000		37430	2435			3072	732	
1972	3698000		37775	7150			2104	2520	
1973	3767000		61137	3086			3953	1455	
1974	3975000		46198	961			4596	498	
1975	3830000		12432	739			1733	157	
1976	3637000		55765	192			5275	360	
1977	4066000		47327	224			10648	122	
1978	4455000		39400	412			11986	430	
1979	4541000		33870	10093			12349	9276	
1980	4720000		30496	1606			15323	2153	
1981	4565000		-	381			-	466	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

24. Commodity: Inner Tubes, Rubber for Motor Cars

ISIC Code	355101								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-6259103				B-6291003				
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOH			1000IR	1000IR	
1970	2728000		41172	3726			341	128	
1971	3427000		38767	405			319	23	
1972	3747000		31739	583			236	36	
1973	3633000		69269	1771			583	93	
1974	3624000		88976	115			1002	16	
1975	3657000		106416	377			1369	16	
1976	3392000		94530	71			1500	8	
1977	3570333		114986	77			2015	23	
1978	4035000		98201	-			1515	-	
1979	3887000		27578	8			608	2	
1980	4366000		25686	5			840	3	
1981	4447000		-	39			-	11	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

25. Commodity: Glass, Drawn or Blown, in Rectangles

ISIC Code	362001								Note: a/ Years beginning April of - year stated.
NSIC Code									
SITC Code									
NSTC Code	A-6643, 6644, 6645, 6648				B-6643, 6644, 6645				
	Quantity				Value				
Source	12		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SHH		1000SHH	1000SHH			1000IR	1000IR	
1970	17200		-	-			5833	1930	
1971	16584		-	-			4474	2341	
1972	17352		-	-			10281	4464	
1973	13990		-	-			10663	12154	
1974	9429		-	-			11094	3831	
1975	15322		-	-			17510	4585	
1976	19684		-	-			45130	4835	
1977	21196		9079	178			94797	5454	
1978	19904		9951	286			78447	10053	
1979	23282		6089	114			81918	6018	
1980	-		4908	195			73641	9828	
1981	-		-	227			-	8564	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

26. Commodity: Cement

ISIC Code	369204								Note:
NSIC Code									
SITC Code	6612								
NSIC Code									
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000\$	1000\$	
1970	13956000		153424	95			2462	35	
1971	14931000		176184	271			2776	49	
1972	15785000		247407	500			5413	89	
1973	15016000		261280	-			4760	-	
1974	14319000		198020	-			6539	-	
1975	16248000		338055	-			12957	-	
1976	13516000		624175	702			25108	97	
1977	19173000		446958	336			17650	123	
1978	19626000		48307	114338			2345	68185	
1979	18270000		54998	113890			3120	78399	
1980	17803000		-	-			-	-	
1981	20908000		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: India

27. Commodity: Pig Iron (including Cast Iron)

ISIC Code	371010								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-6712000		B-6712001, 6712002						
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000IR	1000IR	
1970	6896000		502083	-			227732	-	
1971	6698000		203448	-			67924	-	
1972	7207000		416901	-			135895	-	
1973	7341000		441361	-			172530	-	
1974	7248000		142758	-			84147	-	
1975	8359000		234803	-			187363	-	
1976	9731000		1012480	-			704580	7	
1977	9797000		713956	6			466560	78	
1978	9428000		256051	-			190224	-	
1979	8937000		55740	625			49758	1111	
1980	8709000		513	2134			1185	4716	
1981	-		-	252172			-	360761	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

28. Commodity: Aluminium, Unwrought

ISIC Code	3720221								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	6841001								
	Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000IR	1000IR	
1970	161081		1177	5485			8727	24801	
1971	178179		-	14100			-	54130	
1972	202114		-	298			-	1250	
1973	154335		-	0			-	5	
1974	128914		11	148			54	1109	
1975	167442		7238	4841			44210	34674	
1976	211400		21720	326			135508	2447	
1977	183854		599	5499			5665	52795	
1978	205386		-	17983			-	164953	
1979	211910		343	39857			6237	619796	
1980	184509		152	68116			2631	1030222	
1981	212783		-	18960			-	225259	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

29. Commodity: Aluminium Plates, Sheets, Strip and Foil

ISIC Code		372031							Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code		68422, 68423							
Source	Quantity				Value				
	6		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000IR	1000IR	
1970	47209		643	172			4323	2510	
1971	51692		588	272			4223	5026	
1972	56530		663	526			4143	11370	
	60945		853	742			6701	11273	
1974	52629		658	512			8856	11372	
1975	41183		487	542			9842	14058	
1976	44018		2403	360			27088	8809	
	49840		2442	770			34913	19986	
1978	52851		697	1274			13240	37996	
1979	52408		342	3723			6648	29494	
1980	47458		461	3289			13248	107321	
1981	53092		-	1855			-	52731	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

30. Commodity: Typewriters

ISIC Code	382501								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-7141		B-7511						
	Quantity				Value				
Source	11		a/ 14	a/ 14			a/ 14	a/ 14	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	NGM		NOM	NOM			1000IR	1000IR	
1970	39000		1436	462			942	745	
1971	43000		1658	364			839	1021	
1972	42000		2331	519			1539	1377	
1973	32000		857	384			774	1369	
1974	47000		1551	330			1821	1215	
1975	51000		905	486			1312	1919	
1976	60000		883	461			1318	1970	
1977	65000		4705	1154			5824	3390	
1978	83000		7070	572			8297	2100	
1979	93000		4170	559			4819	3768	
1980	94000		7285	674			8232	4290	
1981	97000		-	563			-	4569	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

31. Commodity: Diesel Engines, Stationery

ISIC Code	382104								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-71153		B-7138						
	Quantity				Value				
Source	11		a/ 14	a/ 14			a/ 14	a/ 14	
Unit	Production NOM	Shipment	Export NOM	Import NOM	Production	Shipment	Export 1000IR	Import 1000IR	
1970	-		4850	5			15986	111	
1971	84189		6979	7			19712	195	
1972	78248		10958	1			47052	15	
1973	157652		16486	155			40136	6037	
1974	110580		32250	187			97971	15452	
1975	140304		36842	184			106291	12058	
1976	106624		33640	143			130863	10199	
1977	134529		9608	874			11188	16147	
1978	138702		2506	80			2632	19402	
1979	-		5387	127			5865	7901	
1980	-		7094	486			8609	424	
1981	-		-	2727			-	32436	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

32. Commodity: Motors, Electric of One Horsepower and over

ISIC Code		383110								Note: a/ Years beginning April of year stated.
NSIC Code										
SITC Code										
NSTC Code		A-72212 ( exc. 7221239)				B-7162				
Source		Quantity				Value				
		6		a/ 14	a/ 14			a/ 14	a/ 14	
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import	
		1000KW		1000NOM	1000NOM			1000IR	1000IR	
1970		2855		80	5			12184	17352	
1971		2314		22	5			10841	17877	
1972		1908		11	7			7223	23588	
1973		2416		18	7			12233	27857	
1974		2654		33	6			14818	34235	
1975		2649		16	7			14104	-	
1976		2626		35	-			14073	-	
1977		2939		24	9			35266	95622	
1978		2934		21	5			37718	155413	
1979		2931		28	7			46148	140000	
1980		2854		27	14			38280	308980	
1981		3382		-	26			-	402822	
1982		-		-	-			-	-	
1983		-		-	-			-	-	
1984		-		-	-			-	-	

Country: India

33. Commodity: Transformers of 5 KVA and Over

ISIC Code		383116B							Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code		A-7221301-18			B-7711				
		Quantity				Value			
Source	6		a/ 14	a/ 14			a/ 14	a/ 14	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	1000KVM		NOM	NOM			1000IR	1000IR	
1969	-		1390	-			9640	-	
1970	7609		2117	468			9309	3860	
1971	8534		2155	612			16541	4886	
1972	11381		937	506			15034	3977	
1973	11633		1295	1007			12566	6798	
1974	12387		2479	2562			25856	34368	
1975	13470		2692	1485			32118	16526	
1976	13824		15820	2183			41995	51270	
1977	17250		3722	7505			34716	42551	
1978	18246		8393	4353			48138	55350	
1979	19343		4640	2563			37812	56583	
1980	18807		3951	2342			30826	34935	
1981	20321		-	1039			-	3622	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

34. Commodity: Radio Receivers

ISIC Code		383204							Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code		A-7242002		B-7621, 7622					
		Quantity			Value				
Source	6	a/ 14	a/ 14		a/ 14	a/ 14			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOH			1000IR	1000IR	
1970	1771000		11736	4			963	2	
1971	1982000		278	12			73	1	
1972	1938000		771	12			148	4	
1973	1646000		11997	391			1489	43	
1974	2059000		37524	-			3982	-	
1975	1514000		11564	100			2754	9	
1976	1676000		26292	73			4556	8	
1977	1813000		415693	818			44051	318	
1978	1937000		205578	3144			28821	2231	
1979	2030000		138097	28			12353	221	
1980	1918000		34489	100			5712	212	
1981	1754000		-	41			-	370	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: India

35. Commodity: Dry Cell Batteries

ISIC Code	383910							
NSIC Code								
SITC Code								
NSTC Code	A-72911 (exc. 7291109)				B-77811 (exc. 7781109)			
	Quantity				Value			
Source	6		a/ 14	a/ 14			a/ 14	a/ 14
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	1000NOM		1000NOM	1000NOM			1000IR	1000IR
1970	492000		37890	2173			12971	1298
1971	580000		29683	1685			13402	2212
1972	638000		25049	215			13050	573
1973	632000		21584	125			10421	588
1974	632000		29377	118			15970	2385
1975	544000		27511	50			17569	981
1976	595000		21897	634			18316	2019
1977	622000		30454	456			20339	7707
1978	821000		20949	41			21638	3412
1979	857000		42247	36			44749	5484
1980	993000		51067	13			55416	2434
1981	936000		-	157			-	7030
1982	-		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Note:

a/ years beginning April of year stated.

Country: India

36. Commodity: Storage Batteries

ISIC Code	383913								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-72912 (exc. 7291211, 7291249)				B-77812				
	Quantity				Value				
Source	6.11		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOM		1000NOM	1000NOM			1000IR	1000IR	
1970	-		74	1			7720	846	
1971	1139		84	2			10966	2146	
1972	1107		87	2			14762	282	
1973	1251		93	8			19355	1215	
1974	1317		126	2			38233	228	
1975	1339		140	2			54937	344	
1976	1405		166	5			82956	2259	
1977	1495		129	8			107007	1962	
1978	1619		111	6			81317	3929	
1979	1644		248	13			138582	589	
1980	1683		579	16			140419	4669	
1981	1992		-	11			-	4085	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

37. Commodity: Fluorescent Lamps

ISIC Code	38391*								Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code	A-7292101				B-7782201				
	Quantity				Value				
Source	11		a/ 14	a/ 14			a/ 14	a/ 14	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOM		1000NOM	1000NOM			1000IR	1000IR	
1970	10433		150	6			541	95	
1971	10567		165	12			425	279	
1972	12355		755	6			2313	153	
1973	11429		651	11			1845	231	
1974	15690		843	6			2311	251	
1975	16757		310	6			1946	171	
1976	16888		1939	6			6534	75	
1977	17732		2783	11			9606	834	
1978	20447		1632	6			7230	273	
1979	-		1341	42			7588	2355	
1980	-		929	4			4911	634	
1981	-		-	9			-	432	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

38. Commodity: Buses and Trucks

ISIC Code	384312, 384313, 384315, 384316								Note:
NSIC Code									
SITC Code	7322, 7323								
NSTC Code									
	Quantity				Value				
Source	12		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM		NOM	NOM			1000\$	1000\$	
1970	39762		1650	51			8644	406	
1971	37452		1362	594			8499	3088	
1972	33920		815	56			5079	209	
1973	36331		954	76			7254	964	
1974	37614		884	46			7272	294	
1975	38007		1730	31			17742	638	
1976	42326		1474	35			19258	613	
1977	36367		1759	9			21610	262	
1978	48612		2183	22			26576	481	
1979	58373		1149	65			17883	805	
1980	-		-	-			-	-	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

39. Commodity: Passenger Cars (excluding Bus)

ISIC Code	384307, 384310								Note:
NSIC Code									
SITC Code	7321								
NSTC Code									
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit			NOM	NOM			1000\$	1000\$	
1970	45000		1849	447			3206	1191	
1971	50000		210	369			401	1045	
1972	52000		209	52			565	197	
1973	55000		311	55			817	208	
1974	47000		187	60			434	276	
1975	23000		172	40			511	457	
1976	32000		144	43			586	203	
1977	28000		253	59			1125	427	
1978	35000		244	37			896	355	
1979	29000		245	47			1013	528	
1980	30000		-	-			-	-	
1981	-		-	-			-	-	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: India

40. Commodity: Motor Cycles and Scooters

ISIC Code		384401							Note: a/ Years beginning April of years stated.	
NSIC Code										
SITC Code										
NSTC Code		A-7329102, 7329103			B-7851					
		Quantity				Value				
Source	6		a/ 14	a/ 14			a/ 14	a/ 14		
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
	NOM		NOM	NOM			1000IR	1000IR		
1970	101000		159	26			278	51		
1971	107000		530	82			529	176		
1972	136000		493	12			1032	38		
1973	162000		845	1			1965	5		
1974	182000		2997	21			7135	56		
1975	205000		8952	4			17645	15		
1976	263000		3094	7			8735	41		
1977	266000		11679	49			37280	204		
1978	298000		21490	3			57995	16		
1979	306000		28280	19			78008	145		
1980	310000		32476	14			109932	161		
1981	-		-	19			-	139		
1982	-		-	-			-	-		
1983	-		-	-			-	-		
1984	-		-	-			-	-		

Country: India

41. Commodity: Bicycles

ISIC Code		384404							Note: a/ Years beginning April of year stated.
NSIC Code									
SITC Code									
NSTC Code		A-7331101		B-7852					
		Quantity				Value			
Source	6		a/ 14	a/ 13			a/ 14	a/ 14	
Unit	Production NOM	Shipment	Export NOM	Import NOM	Production	Shipment	Export 1000IR	Import 1000IR	
1970	2094000		202904	7			24388	3	
1971	1826000		127857	-			16666	-	
1972	2273000		216384	-			30522	-	
1973	2541000		172353	4			26499	2	
1974	2484000		155478	-			35234	-	
1975	2175000		301641	-			61169	-	
1976	2643000		270198	-			62429	-	
1977	3058000		338399	3			80670	2	
1978	3480000		336152	3			85109	4	
1979	3994000		359821	-			96809	-	
1980	3893000		686794	-			208925	-	
1981	4732000		-	5			-	6	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

**PART VIII**

**INDONESIA**

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Convertors between ISIC and National Classification
- IV. Commodity Balance Sheets



**I. Explanatory Notes on Manufacturing Statistics**

## Indonesia

### 1. Manufacturing Survey

Reference Period : Calendar Year  
Survey Year : 1971 to 1973, 1975 to 1980  
Office in Charge : Central Bureau of Statistics

#### 1971 survey

Scope and Coverage: The survey covered all industrial establishments with 100 or more workers without the use of power equipment or engaging 50 or more workers with the use of power equipment (Large establishment) and covered all industrial establishments engaging 10 to 99 workers without the use of power equipment or 5 to 49 workers with the use of power equipment.

Classification: Classification based on the International Standard Industrial Classification of all Economic Activities I.S.I.C. 1968 (revised). The national classification has been adjusted to the local conditions, by adding 2 more digits to the I.S.I.C., on the basis of the main item produced (6 digit).

Industrial Grouping: All manufacturing establishments were reclassified into 85 industrial groupings.

Survey method: Large establishments were covered completely. Medium establishments were investigated on a sample basis.

Direct interview was adopted by following provinces;  
North Sumatra, West Sumatra, South Sumatra, Lampung,  
D.K.I. Jakarta, West Java, Central Java, D.I. Yogyakarta, East Java, South Kalimantan, East Kalimantan, South Sulawesi and West Nusa Tenggara.

Mailing System; other provinces

#### Sampling design:

A stratified systematic sampling plan was adopted for "medium" establishments as the technique to draw the sample, from each province. Each industry group was treated as a stratum, and each stratum was further divided into sub-strata on the basis of whether power equipment has use or not.

The sample size varied according to the number of establishments in the stratum within a province, the rule adopted being as follows:

1. Less than 10 establishments, complete coverage.
2. 11 up to 40 establishments, take one-third.
3. 41 up to 100 establishments, take one-fifth.
4. More than 100 establishments, take one-tenth.

Items:

- Number of persons engaged (managers, administrative and other employees, operatives, working proprietors and unpaid family workers).
- Total wages & salaries
- Input cost
  - Materials used, power equipments and electric motors, fuel used, electricity, other expenses.
- Capital transactions, stock of change
- Revenue
  - goods produced, receipts for manufacturing work done for others on their materials, profit of goods sold in the same conditions as purchased, other miscellaneous receipts.

The estimation procedure:

1. Notation:

$N_i$  = Total number of establishments in the  $i^{\text{th}}$  stratum/sub stratum.

$n_i$  = Total number of establishments sampled in the  $i^{\text{th}}$  stratum/sub stratum.

$X_{ij}$  = The value of the characteristic for the  $j^{\text{th}}$  establishment within the  $i^{\text{th}}$  stratum/sub stratum.

$X_i$  = Estimate of the characteristics in the  $i^{\text{th}}$  stratum/sub stratum.

2. Estimate of the characteristic for the  $i^{\text{th}}$  stratum/sub stratum in a province:

$$\hat{X}_i = \frac{N_i}{n_i} \sum_{j=1}^{n_i} x_{ij}$$

The two sub stratum estimates for an industry group has aggregated to arrive at the estimates for the industry group.

Remarks: While some of the motor/motorcycle assembling plants did furnish data on quantity and value of production, some refused to give the figures on quantity. Hence, the figures on quantity of production regarding with the assembling plants is incomplete.

This is true in respect of rice milling, printing, repair, textile finishing as well.

## 1972 to 1973 survey

**Scope and Coverage:** The survey covered establishments engaging 5 or more persons with use of power equipment and establishments engaging 10 or more persons without the use of power equipment; within the territorial boundaries of Indonesia.

**Classification:** Industrials classification adopted the International Standard Industrial Classification of all Economic Activities, (I.S.I.C.) 1968 (revised), with some modifications to suit Indonesian conditions. The classification had been adjusted according to the local conditions, by adding 1 more digit to the I.S.I.C. on the basis of the main item produced (5 digit).

**Industrial Grouping:** All manufacturing establishments were reclassified into 120 industrial groupings.

**Survey method:** The establishments are arranged descendingly according to the number of persons engaged. Those establishments which cover 70% or more of the total persons were completely selected, and the rest were sampled. These all arranged by Province and by Industry group.

### Items:

- Average number of persons engaged (on wages, unpaid)(1972)
- Number of persons engaged (1973)
- Total wages & salaries
- Value of transaction in fixed capital
  - new purchases
  - improvements and major repair
  - second hand purchase
- Sale of used items
- Increase in stock or materials (only 1972)
- Input cost
  - raw materials consumed
  - other materials consumed
  - fuel, electric power & gas consumed
  - rent: building and equipment (only 1972)
  - repair & maintenance (only 1972)
  - purchase of electricity (only 1973)
  - industrial and construction services cost (only 1973)
- Revenue
  - goods produced
  - electricity sold
  - service rendered to other
  - gross income from resale of goods
  - increase in semi finished goods

Notes:

1972 - 1973 Survey

In the assembling plant on motor car and motor cycly, some establishments are willing to give figures on quantity of raw material used and goods produced, while some are not, and the only figures available is the value of services rendered to others.

Hence the data published here in connection with the assembling plant is not so complete. This also happens in the kind of industry: Rice milling, printing, dyeing, ready made clothing and other industries which usually give services to others.

To determine the kind of industry from establishment which produce different types of goods, the greatest value of one type of goods is used to determine the kind of industry of that establishment.

1972 survey

The figure of secondary products of establishments which are producing different types of goods will still exist in this publication

In the vertical integration system of establishment, the latest product will be used to determine the kind of industry of the establishment.

In the situation where some of the production are sold and the rest are used as raw material by the integrated establishment, the latest establishment can be treated as separate establishment.

It is the sincerely hope of the Central Bureau of Statistics that the inadequacies could be removed gradually with the greater cooperation of the respondents.

The estimation procedure:

1972 survey

1. Notation:

$N_i$  = Total number of establishments in the  $i^{\text{th}}$  stratum/sub stratum.

$n_i$  = Total number of establishments sampled in the  $i^{\text{th}}$  stratum/sub stratum.

$X_{ij}$  = The value of the characteristic for the  $j^{\text{th}}$  establishment within the  $i^{\text{th}}$  stratum/sub stratum.

$\hat{X}_i$  = Estimate of the characteristics in the  $i^{\text{th}}$  stratum/sub stratum.

2. Estimate of the characteristic for the  $i^{\text{th}}$  stratum/sub stratum in a province:

$$\hat{X}_i = \frac{N_i}{n_i} \sum_{j=1}^{n_i} x_{ij}$$

The two sub stratum estimates for an industry group has aggregated to arrive at the estimates for the industry group.

1973 survey

- 2.1. Complete sector, with cut off sample covering  $\pm 70\%$  of total persons engaged.

Notation:

$N_{1i}$  = Number of establishment of the  $i^{\text{th}}$  industry groups in the complete sector.

$X_{1ij}$  = Characteristics of the  $j^{\text{th}}$  establishment of the  $i^{\text{th}}$  industry groups in the complete sector.

- 2.2. Sample sector:

Notation:

$N_{2i}$  = Number of establishments of the  $i^{\text{th}}$  industry group in the sample sector.

$X_{2ij}$  = Characteristics of the  $j^{\text{th}}$  establishment of the  $i^{\text{th}}$  industry groups in the sample sector.

- 2.3. Estimate total of the characteristics in the  $i^{\text{th}}$  industry group.

$$X_i = \sum_{j=1}^{N_{1i}} x_{1ij} + \frac{N_{2i}}{n_{2i}} \sum_{j=1}^{n_{2i}} x_{2ij}$$

Sampling design:

1973 survey

Sampling design adopted in the survey was "Stratified systematic sampling", with the industry group as strata. The establishments were ordered descendingly according to the number of persons engaged. From the cumulative total, a cut off sample were drawn covering  $\pm 70\%$  of the total persons engaged.

## 1975 to 1980 survey

Scope and coverage: The survey covered establishments engaging 20 or more persons

- a. large establishment; engaging 100 or more persons
- b. medium establishment; engaging 20 to 99 persons

Industrial grouping: All manufacturing establishments were reclassified as below:

1975 - 112 industries	
1976 - 112	"
1977 - 113	"
1978 - 118	"
1979 - 117	"
1980 - 118	"

Classifications: The classification of manufacturing activities adopted by the Central Bureau of Statistics in the annual survey to compile the results presented here, is essentially the same as that in the International Standard Industrial Classification of all Economic Activities, 1968 (ISIC). However, some further subclassifications of the final industrial groups were made so as to be more suited to local condition. Hence, the results available here are with a little further classification than that in the ISIC. However, results for each industry group under ISIC could always be obtained from these results, by combining one or more sub-groups.

To accommodate the need for having industry sub-groups, a five digit system of coding was adopted; the last digit indicating further classification of the group indicated by the first four digits (ISIC). In instances where classification beyond that in ISIC were not made, the last digit in the code was kept as 'zero'.

### Items:

- Number of persons engaged (paid workers; production workers, other, unpaid family workers)
- Employment cost
- Value of transactions in fixed capital
  - new purchases
  - second hand purchases
  - construction
  - major repair and improvements (undertaken by establishment, undertaken by others)
- Sale of used items



- Input costs
  - raw materials
  - fuel, electricity and gas
  - other materials
  - repairs and industrial services received
  - rent of buildings, machinery and equipment
  - non-industrial services received
- Value of increase in stocks
- Revenue
  - goods produced (quantity/value)
  - value of electricity sold
  - value of industrial services rendered
  - gross income from resale
  - increase in stock of semi-finished goods
  - receipt from non-industrial services rendered

Only 1975 to 1978

- Other expenses
  - gifts and contributions
  - land rent
  - interest paid

Survey Method: Under the overall plan of continuous improvement of this survey, complete enumeration of all large and medium establishments was adopted in the 1975 survey. It is the intention of the Central Bureau of Statistics to have this method continued in the following years as well, so that annual estimates free from sampling errors would be available in respect of a very large part of the total manufacturing activity.

Limitations in Coverage:

1975 to 1977

Manufacturing activities undertaken in association with primary agricultural production like those in tea, rubber, tobacco-estates were excluded from the coverage of the survey. This was mainly due to practical difficulties of collection of information separately in respect of manufacturing activity. Separate efforts have been commenced by the Central Bureau of Statistics to collect detailed information on both primary production and secondary production activities, undertaken by such enterprises.

Due to deficiency in the data collected in respect of motor and motorcycle assembly plants, the results on a good part of the total activities under this group could not be included in the compilations for this publication.

from 1978

Manufacturing activities undertaken in association with primary agricultural production like those in tea, rubber, tobacco-estates were included from the coverage, if the activities were undertaken by establishments which were not part of an estate.

The fibre processing for gunny bags and sugar manufacturing industries were all covered.

All large and medium establishments as results of 1974 census were covered in the survey, regardless the total number of persons engaged at the time of survey. Includes also, the newly birth establishments with 20 or more number of persons engaged.

## Indonesia

### 2. Manufacturing Census

Reference Period : 1974/75

Office in Charge : Central Bureau of Statistics

Title of Report : 1974/75 Industrial Census

#### Scope and Coverage:

##### Sector:

Large & Medium manufacturing establishment  
(engaging 100 persons and over)

Medium manufacturing establishment  
(engaging 20 to 99 persons)

Small manufacturing establishment  
(engaging 5 to 19 persons)

Household & Cottage Industries  
(Engaging less than 5 persons or 5 to 9 persons without  
the use of power equipment)

Organised Mining of petroleum and other minerals

Unorganised mining & quarrying of gravel, sand lime,  
salt-pans, etc,

Generation and distribution of electricity

Production and distribution of gas, Waterworks

##### Area:

Large & Medium manufacturing establishment, Small manu-  
facturing establishment: all areas in Indonesia

Household & Cottage industries: excluded area as follows;  
Rural areas of some of the provinces with relatively low  
density of population (Nusa Tenggara Timur, Kalimantan  
Timur, Kalimantan Tengah, Sulawesi Tengah, Sulawesi  
Tenggara, Maluku and Irian Jaya, island areas of Riau)

##### Census method:

Large, Medium, small manufacturing establishments:  
complete enumeration

other: sampling method (8%)

months of enumeration:

Large, Medium, small manufacturing establishments:  
June, July, August 1975

Other:

August 1984 to June 1985

Reference year:

Large, Medium, small manufacturing establishments  
1974

Others:

1975

Classification: Classification based on the International Standard Industrial Classification of all Economic Activities I.S.I.C. 1968(revised), with some modifications to suit Indonesian conditions. The classification had been adjusted according to the local conditions, by adding 1 more digit to the I.S.I.C. on the basis of the main item produced (5 digit)

Items:

Large and Medium manufacturing establishments

-Average number of persons engaged (production workers, other, unpaid workers)

-Hours of work

-Employment cost:

wage and salaries, overtime wages, bonus in cash or in kind, others, pension contribution, accident benefit

-Transactions in fixed capital and stock:  
new items, second hand items

-Using power equipments with capacity of power equipment

-Input cost:

purchase of electricity, consumption of fuels and lubricants, raw materials and auxiliary materials, packing materials, industrial services utilised, repair and maintenance

-Revenue:

goods produced, industrial services rendered, electricity sold

Small manufacturing establishments

-Number of persons engaged (production workers, other, unpaid workers)

-Hours of work

-Input cost:  
consumption of fuel and lubricants, raw materials,  
purchase of electricity, packing materials, industrial  
services, repair and maintenance

-Revenue:  
goods produced, value of industrial services rendered,  
profit from sale of goods in the same form as  
purchased

#### Household and cottage industries

-Number of persons engaged (members of household, hired  
participants)

-Hours of work

-Wages and salaries

-Input cost:  
raw materials, industrial services

-Revenue:  
goods produced, value of industrial services rendered

#### Sample Design:

##### Household and Cottage industries

The sampling design adopted in the collection of data on household and cottage industries involved stratification and selection of a sample of about 8% of the total number of census blocks, separately for rural and urban areas of each province. The distinction between rural and urban areas was made on the basis of decision at the time of the 1971 Population Census.

In rural areas, the sub-districts were stratified on the basis of the estimated number of household and cottage industry units per census block, with the further provision that the estimate of total number of household and cottage industry units in each stratum was more or less the same. The 8% of the total rural blocks in each province were equally assigned to the different rural strata, to ensure greater sampling fractions in strata with higher density of activities. In the urban areas, only two strata were formed viz. of census blocks with and without household and cottage industry activities. The information regarding the extent of activities of household and cottage industries available from Agricultural Surveys conducted by the CBS in the earlier years was the basic information utilised in the stratification.

The number of sample blocks allocated to each stratum was further adjusted to the nearest multiple of 12, so that the total sample could be treated as composed of 12 sub-samples. This treatment of the total sample in 12 sub-samples was to collect data on household and cottage industries with a uniform spread over the one period; each sub-sample being covered in one month. The sample selection itself was with equal probability.

Within each selected sample block, initially, all premises and households were listed to identify the existence of household and cottage industry activities, and each of the activities so identified was contacted to collect the required information through the prescribed questionnaire.

Estimation procedure:

Small manufacturing establishments

All small industrial establishments located within the Republic of Indonesia had been interviewed by census enumerators, to collect information on establishment activities during three months prior to the enumeration date. To obtain figures regarding establishments activities during the whole year of 1975, the estimation was as given

below: 
$$\frac{\text{Total number of establishment working days during the whole year of 1975}}{\text{Total number of establishment working days during the reference period of 3 months}}$$

x value of characteristic.

Household and cottage industries

a. The procedure of arriving at estimates in respect of each stratum was follows:

For a stratum, let

$N$  = Total number of census blocks

$n$  = Number of blocks, selected & surveyed

$M_i$  = Total number of household and cottage industry units in the  $i^{\text{th}}$  block surveyed

$m_i$  = Number of household and cottage industry units actually surveyed in the  $i^{\text{th}}$  block

$X_{ij}$  = Value of the characteristic in the  $i^{\text{th}}$  block,  $j^{\text{th}}$  unit surveyed.

Then, the stratum aggregate in respect of the characteristic:

$$\text{Viz. } X = \frac{N}{n} \times \sum_{i=1}^n \frac{M_i}{m_i} \times \sum_{j=1}^{m_i} X_{ij}$$

- b. The aggregate estimate for the whole province was simple total of the corresponding stratum estimates; while the National total was the total of the provincial estimates.
- c. Estimates separately by industry groups was obtained by treating kind of industrial activity as a classificatory characteristic. In other words, the procedure outlined in (a) and (b) was adopted separately in respect of each industry group to arrive at estimates for each industry group. Naturally, at each level, aggregate of industry group wise estimates gave the corresponding estimates for all industry groups taken together.

#### Definition of terms

##### 1. Manufacturing Establishments

A manufacturing establishment is defined as an establishment engaged in the mechanical or chemical transformation of unorganic substances into new products. The assembling of component parts of manufactured product is considered as a manufacturing activity. Activities of repair of industrial, commercial and office equipment are, in general, treated as manufacture. An establishment is defined as an economic unit which engage, under a single ownership or control, in one, or predominantly one kind of activity at a single occasion.

##### 2. Power Equipment

Establishments using prime movers or using electricity purchased from outside the establishment are treated as using power equipment. The use of electricity for lighting purposes and other non-industrial purposes are excluded from consideration.

Prime movers, in this connection, could be those driving electric generators or those driving other machinery. Examples of power prime movers are internal combustion engines using fuel oils, steam engines, water wheels, turbines etc.

### 3. Person Engaged

Number of persons engaged in the establishment is defined the total number of persons who work in the establishment including employees as well as unpaid workers. Employees have been categorised into production workers and other workers.

Production workers are those directly engaged in the production or related activities of establishment, including clerical and working supervisory personnel whose function is to record or expedite any step in the production process.

All other employees, including administrative, technical and clerical workers are treated as other than production workers. Example of personnel under this category: clerks, typist, salesmen, watchmen, accountants etc.

Unpaid workers are persons engaged in activity of the establishment, as working proprietors or as family workers, not receiving any regular wages or salaries. For count of person under this category, participation for less than 1/3 of the normal work time is ignored.

"Participants" in household and cottage industry activity  
The concept of "participant" in the activity has been adopted in this data collection and compilation effort, due to the special nature of operations of these unorganised activities. A person is considered to a participant in the activity of household and cottage industries, if any time was devoted at all in the activity, however small the time, or how infrequent the participation was. In other words, a person joining the activity for about half an hour a month as well as a person working full time on all days of the month were both initially counted as "participant" in the activity. Also, no distinction was made between wage earners and non-wage earners, in this context.

#### Full time, Part time and Nominal Participations

In view of the above concept of participant, for greater insight into the labour input in household and cottage industry activities, the concept of full time, part time and nominal participations was adopted. From practical considerations, work during a period exceeding 5 hours was treated as full time participation during the day, between 1 hour and 5 hours as part time participation and that of less than 1 hour as nominal participation.



#### 4. Manday

##### Large and Medium manufacturing establishments

This was obtained by multiplying the total of establishments working-days by the average of workers per-working-day

##### Small manufacturing establishments

The concept of a manday has been defined as equivalent of one day's work of full time participation by one persons, is important to be noted. Thus, 10 persons working full time for five days is measured as 50 mandays of work. As regards part time participation, a weight of half has been assigned to arrive at manday equivalent. Hence, part time participation by a person during 8 days has been treated as 4 mandays of work. Nominal participation was ignored in the computation of mandays, or in other words, the assigned weight was zero.

#### 5. Expenditures on labours

Total of payments to all employees during 1974, in cash or in kind, as regular wages/salaries, overtime wages, bonus, etc; as well as pension allowance and accident allowance.

#### 6. Fixed assets

Fixed assets are: land, buildings and other construction, machinery and equipment, vehicles and other miscellaneous capital goods, which can be used for more than one year. Among other capital goods: A.C., fan, table, desk, cupboard etc. are included.

##### a. Purchasing of new fixed assets

That is, purchasing of new fixed assets which have not been used before in Indonesia. Equipment which have been used in a foreign country, than imported and used by the establishment, is considered as new fixed assets. Value of purchase include installation costs also.

##### b. Purchase of second hand fixed assets

That is, purchase of fixed assets which have been used before in Indonesia. The value of the equipment is based on value when it was purchased including installation costs, etc.

c. Construction & Improvement of fixed assets

That is to change/renew fixed assets to increase the level of capacity/level of productivity, or enhance the useful life of the equipment. Value of construction & improvement of fixed assets undertaken by self is based on market value; but when this was not possible, it was estimated on the basis of costs incurred for raw-materials, services, etc. These costs were based on market prices.

d. Maintenance and small repair of fixed assets

All expenses incurred on maintenance or on small repair of fixed assets in order to be able to function normally. This kind of maintenance and small repair does not increase the level of capacity/level of productivity, nor does it change the productive life of fixed assets.

7. Sale and purchase of electricity

Value of electricity sold is based on selling price at the time of transaction; so is the value of electricity purchased, whether from PLN (State Enterprise of Electricity) or non PLN (Other than PLN). Quantity and value of electricity sold or purchased presented here indicate quantity and value of electricity sold and purchased in 1974.

8. Fuel and lubricants consumption

Quantity and value of fuels and lubricants presented here indicate quantity and value of fuel and lubricants consumed in 1974. The value is based on average purchase price during 1974.

9. Value of input.

Value of input presented here indicates value of goods and services which were consumed in the process of production during one year in 1974. The value is based on average purchase price during 1974.

10. Value of output.

Value of output presented here indicates value of goods produced and industrial services rendered to others during one year in 1974. The value is based on average selling price during 1974.

11. Value added

Large and Medium manufacturing establishments

at market price: This is, the difference between value of output and value of input, during 1 year

at factor cost: This is, net of indirect taxes and is compiled by subtracting indirect taxes from value added at market price

Small scale manufacturing establishments

Value added presented here in value added at market price, as the difference between value of gross output and value of input, during 1 year

Household and Cottage industries

The figures of value added presented here represent the difference between the value of gross output and cost of materials and industrial services consumed in the activity. Data regarding non-industrial services costs, depreciation, etc., were not collected and hence, the figures of value added should be considered as "Census value added". Further, the gross output being valued at market prices. However, it is felt that in these kind of activities, there would be no significant adjustment to be made for indirect taxes or subsidies.

12. Contribution to Gross Domestic Product at factor cost

This is, the value of contribution to gross domestic product. The value is obtained from value added at market prices plus profit from resale of goods plus other receipts minus cost of non industrial services minus expenditure on rent.

## Indonesia

### 3. Manufacturing Survey

Reference Period : 1979

Office in Charge : Central Bureau of Statistics

Title of Report : Small Scale Industrial Statistics

#### Scope and Coverage:

Sector: the survey covered small scale manufacturing establishments; engaging 5 to 19 workers, regardless of paid workers or unpaid workers and regardless of the establishment using machine power or not

Area: All areas of Indonesia except East Timur

Survey method: the survey was carried out in 2 stages:

Stage I April 1979

Stage II October 1979

The survey method based on 2 pilot surveys was done in Medan and in the area surrounding Malang (kabupaten Malang, Kotamadya Malang, Kabupaten Pasuruan and Kotamadya Pasuruan).

The questionnaire used was the same questionnaire used in the 1979/74 census.

Items: Same items as in 1974/75 census

Industrial Classification: Same classification as in 1974/75 census.

#### Methodology:

##### A. Sampling procedure

The Survey of small scale manufacturing applied two sample methods, i.e.:

-Area sample (to select villages)

-Establishments survey

### Area Sample

The area sample was not implemented in the some way in all provinces, but was done in one way in 8 dominant provinces and in another way in the 18 other provinces.

The 8 dominant provinces were: North Sumatera, South Sumatera, West Java, Metropolitan Jakarta, Central java, the special region of Yogyakarta, East Java and South Sulawesi. In these provinces the survey studied changes in number of establishments in the sampled villages, e.g. the number of new establishments, under coverage in the 1974/1975 census, and those which had moved in or to the villages or out from the villages.

The area sample in the other 18 provinces did not study the changes listed above, but only listed small establishments operating in the sampled villages and then enumerated. The two different methods of implementation was due to the following:

- a) The 1974/1975 Industrial Census showed that the dominant provinces covered +84% of all small scale manufacturing establishments in Indonesia, so that changes occurring in these provinces can be used to obtain a picture for Indonesia.
- b) Finances did not make it possible to carry out the survey in the above manner for the other 18 provinces.

### Village stratification and sample of village Village stratification

In each province the villages were grouped into 5 strata, i.e.:

- Strata I : The group of villages having 20 or more small scale manufacturing establishments.
- Strata II : The group of villages having 10 - 19 small scale manufacturing establishments.
- Strata III : The group of villages having 1-9 small scale manufacturing establishments.
- Strata IV : The group of villages having no small scale manufacturing establishment, but which are located in a sub district (kecamatan) containing villages which have small scale manufacturing establishments.
- Strata V : The group of villages having no small scale manufacturing establishments located in a subdistrict (kecamatan) containing villages without small scale manufacturing establishments.

This stratification of villages is based on the results of the 1974/1975 census.

### B. Implementation of Survey

As noted in the introduction, the small scale manufacturing establishment survey was carried out in 2 stages, stage I and stage II. For the 8 dominant provinces the survey was a combination of area sample and establishment survey, while for the other 18 provinces stage I was the establishment survey and stage II was the area sample.

During stage I the sample size was as follows:

- a) In the 8 dominant provinces the number of villages covered in the area sample was 425 while 4,150 establishments were covered in the establishment survey.
- b) 1,377 establishments were surveyed in the 18 other provinces.

During stage II the sample size was as follows:

- a) In the 8 dominant provinces 574 villages were surveyed in the area sample and 4,356 establishments were covered in the establishment survey.
- b) In the 18 other provinces 664 villages were sampled.

### Method of Estimation:

The method of estimation for area sample and establishment survey.

#### a. Area sample

The estimation for an industry group in this area sample is:

$$X'_l = \sum_{i=1}^5 \frac{N_i}{n_i} \sum_{j=1}^{m_i} x_{lij}$$

Where:  $x_{lij}$  = Characteristics of the  $j^{\text{th}}$  establishment at the  $i^{\text{th}}$  strata and industry group  $l$ .

$m_i$  = Number of establishments in the  $i^{\text{th}}$  strata.

$N_i$  = Number of villages in the  $i^{\text{th}}$  strata.

$n_i$  = Number of sample villages in the  $i^{\text{th}}$  strata.

$X'_l$  = Estimate of a characteristic in industry group  $l$ .

For all the dominant provinces (8 provinces), this estimate only for new establishments, under coverage in the earlier census but which did not change groups and those which moved from another village, for both stage I and stage II. For the other 18 provinces during stage II the estimation was used for establishments active at the time of enumeration, without consideration of whether they were new, under coverage or had moved from another village.

b. Establishment Survey

The estimation for an industry group for the establishment survey was as follows:

$$X_l^i = \frac{N_l}{n_l} \sum_{j=1}^{n_l} x_{lj}$$

Where:  $N_{lj}$  = characteristics of the  $j^{\text{th}}$  establishment in industry group  $l$ .

$n_l$  = number of establishments in the sample from industry group  $l$ .

$N_l$  = Total number of establishments in industry group  $l$ .

$X^{\prime}_l$  = Estimate of a characteristic of industry group  $l$ .

This estimation was used for 8 provinces for both stages I and II, and for the other 18 provinces for stage I.

c. The total estimate of a characteristic of the  $l^{\text{th}}$  industry group in 8 dominant provinces was as follows:

$$X_l = X^{\prime}_l + X^{\prime\prime}_l$$

This estimation provides a complete picture of small scale manufacturing sector in the above provinces, as the estimation includes new, undercoverage and establishments which moved from other villages as well as estimate of establishments sampled based on the establishment survey.

Estimation for one year (1979)

Data collected from small scale manufacturing establishments was for the past 3 months. Thus in order to obtain a picture for a year the following calculation can be made:

The number of working months during the past 12 months multiplied by the average number of working days per month during the working months divided by the number of working days in the past 3 months multiplied by the characteristic during the past 3 months, or:

$$a = \frac{b}{c} \times d$$

Where: a = characteristic for 1 year

b = number of working days of the establishment during the past year.

c = number of working days of the establishment during the past 3 months.

d = characteristic during the past 3 months

This method of calculation is the same as that used in the calculation of the results of the 1974/1975 Census in order that the results are able to be compared.

#### VII. Final data from 1979 survey results

As mentioned in the introduction the 1979 survey of small scale manufacturing establishment was carried out in 2 stages:

Stage I in April and stage II in October 1979.

The scope of the survey, concepts and definitions, use of industrial classification, sample method, method of implementation of survey and the methods of estimation for stages I and II of the survey were the same.

From the two stages of the survey two sets of estimates were obtained.

An average data was obtained by averaging the results from stage I and from stage II.



II. General Industrial Statistics

1. Explanatory Notes

2. Statistical Tables

2.1 Number of Establishments

2.2 Employment (Average Number of persons engaged )

2.3 Employment (Average Number of Employees )

2.4 Gross Output

2.5 Wages and Salaries

2.6 Value added

2.7 Gross Fixed Capital Formation

2.8 Index Number of Industrial Production (1975=100)

## Explanatory Notes

### I. Classification:

The classification of industrial activity set out in the tables follows the three-digit code of the present version of ISIC. The data used NA(national source) is based on ISIC 1968 (revised)

### II. Sources of Data:

The statistical data presented in the following tables derived from three kinds of data sources, UN, UNIDO and NA. The abbreviation of data sources are as follows.

UN-----UN, Yearbook of Industrial Statistics, Vol. I, General Industrial Statistics

UNIDO---UNIDO, General Industrial Data Base

NA1-----Central Bureau of Statistics, 1974/75 Industrial Census

### III. Reference Period:

The reference period is the calendar year from 1 January to 31 December.

### IV. Concepts and Definitions:

For description of concepts and definitions used in the data sources cited above, please refer to Explanatory Notes on Manufacturing Statistics.

### V. General Footnotes:

For 1970 - 1973, 1975 - 1980 NA1 figures are the same as UN figures; thus they are not repeated. 1974 figures are larger than figures for other years because census coverage is more comprehensive in this year.

### VI. Footnotes:

See the end of each indicator.







CODE	INDUSTRY	a/ 1970	a/ 1971	a/ 1972	a/ 1973	d/ 1974	c/ 1975	c/ 1976	c/ 1977	c/ 1978	c/ 1979	c/ 1980	1981	1982	1983
381	Metal products	556	426	1072	942	16110	282	304	313	331	344	363			
383	Electrical machinery	66	104	93	95	131	77	88	95	98	99	113			
384	Transport equipment	313	326	153	182	2371	118	134	140	162	175	178			
385	Professional goods		8	13	4	53	15	16	21	21	24	25			
390	Other industries	193	245	269	172	22430	58	67	73	82	82	83			

## Notes on data of UN source

a/ Manufacturing: establishments with 10 or more workers not using power equipment or with 5 or more workers using power equipment

b/ Including repair of motor vehicles

c/ Manufacturing: establishments with 20 or more persons engaged

## Notes on data of national source

d/ Manufacturing: Includes establishments engaging less than 5 persons

e/ Data on manufacturing establishments with 20 or more persons engaged include commodity classifications of NSIC code 31249, 35120, 36120, 36220

COUNTRY: INDONESIA

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	c/ 1974	a/ 1975	a/ 1976	a/ 1977	a/ 1978	a/ 1979	a/ 1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2					357.1	145.1	140.6	138.2	142.3	145.3	154.8			
313	Beverages					8.5	6.4	5.9	5.9	6.3	6.2	7.3			
314	Tabacco					135.6	133.5	169.4	162.6	143.4	152.6	159.3			
321	Textiles					220.2	232.0	214.9	198.7	209.9	208.7	232.1			
322	Wearing apparel					10.0	4.1	4.1	4.9	5.7	7.9	15.7			
323	Leather and products					4.0	2.9	2.7	2.6	2.6	2.6	3.1			
324	Footwear					9.1	5.9	6.2	6.3	5.6	6.0	7.6			





COUNTRY: INDONESIA

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	c/ 1974	a/ 1975	a/ 1976	a/ 1977	a/ 1978	a/ 1979	a/ 1980	1981	1982	1983
355	Rubber products					51.2	9.4	10.4	11.2	30.5	30.0	37.0			
358	Plastic products n.e.c.					13.3	14.5	16.4	14.5	15.2	16.5	17.8			
361	Pottery, china etc.					3.6	2.1	2.4	3.1	3.3	5.3	6.2			
362	Glass and products					5.3	6.5	6.6	7.1	9.1	8.6	8.9			
369	Non-metal products n.e.c.					92.0	25.9	25.3	25.2	25.8	28.2	30.9			
371	Iron and steel					1	2.9	4.7	5.0	4.0	4.6	8.8			
372	Non-ferrous metals					1.2									
381	Metal products					47.2	22.4	31.1	29.5	32.4	35.5	41.0			

CODE	INDUSTRY	1970	1971	1972	1973	c/ 1974	a/ 1975	a/ 1976	a/ 1977	a/ 1978	a/ 1979	a/ 1980	1981	1982	1983
382	Machinery n.e.c.					8.7	8.8	7.2	10.6	10.3	11.0	12.0			
383	Electrical machinery					12.7	10.5	17.9	20.6	23.7	28.2	37.4			
384	Transport equipment					18.8	19.4 b/	25.8	25.0	25.1	27.1	30.0			
385	Professional goods					1.0	0.5	0.4	0.7	0.7	0.8	1.0			
390	Other industries					15.2	4.6	4.1	4.3	4.8	5.9	5.8			

## Notes on data of UN source

- a/ Manufacturing: establishments with 10 or more workers not using power equipment or with 5 or more workers using power equipment
- b/ Including repair of motor vehicles
- c/ Manufacturing: establishments with 20 or more persons engaged
- d/ Excluding three-wheeled vehicles and motorcycles

COUNTRY: INDONESIA

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970 a/	1971 a/	1972 a/	1973 a/	1974	1975 c/	1976 c/	1977 c/	1978 c/	1979 c/	1980 c/	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	270.6 92	327.9 114	342.6 122	281.6 124	120	143.6 144	139.1 139	136.8 137	140.7 141	143.7 144	153.5 153			
313	Beverages	5.2 4	5.8 4	6.5 5	5.9 4	5	6.3 6	5.9 6	5.8 6	6.2 6	6.1 6	7.2 7			
314	Tobacco	173.4 132	153.8 124	232.2 177	152.0 116	128	132.3 132	168.2 168	161.7 162	142.6 143	151.7 152	158.7 159			
321	Textiles	165.7 142	151.7 130	217.5 187	233.4 201	162	228.1 228	211.9 212	196.2 196	207.5 207	206.5 206	229.9 230			
322	Wearing apparel	4.9 3	10.7 3	2.8 2	2.1 1	3	4.0 4	4.0 4	4.8 5	5.5 5	7.8 8	15.5 15			
323	Leather and products	2.0 2	2	2.0 2	2.0 2	2	2.9 3	2.7 3	2.6 3	2.5 2	2.6 3	3.1 3			
324	Footwear	3.7 3	3	1.0 1	4.5 4	5	5.8 6	6.2 6	6.3 6	5.6 6	5.0 6	7.5 7			
331	Wood products	10.3 7	18.7 13	34.2 23	32.9 22	19	33.4 33	35.8 36	39.6 40	42.5 42	44.1 44	58.9 59			

COUNTRY: INDONESIA

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970 a/	1971 a/	1972 a/	1973 a/	1974	1975 c/	1976 c/	1977 c/	1978 c/	1979 c/	1980 c/	1981	1982	1983
332	Furniture, fixtures	4.3 2	4.7 2	7.1 3	8.9 3	3	4.8 5	5.5 5	5.2 5	4.9 5	5.0 5	5.7 6			
341	Paper and products	4.7 4	8.3 8	11.0 10	7.9 7	7	8.1 8	9.1 9	8.8 9	9.3 9	10.2 10	11.9 12			
342	Printing, publishing	15.1 12	14.8 12	19.9 16	19.5 16	15	17.8 18	18.3 18	17.6 18	16.6 17	18.0 18	19.9 20			
351	Industrial chemicals	5.4 5	4.0 4	9.7 9	7.5 7	7	9.2 9	10.4 10	10.0 10	10.7 11	12.7 13	13.9 14			
352	Other chemical products	22.0 20	24.2 22	31.9 29	32.0 29	24	29.2 29	31.2 31	33.7 34	35.8 36	38.0 38	40.8 41			
353	Petroleum refineries	0	0	0	0	0	2	0							
354	Petroleum, coal products														
355	Rubber products	115.6 6	142.8 6	186.7 7	11.2 7	8	9.4 9	10.4 10	11.1 11	30.4 30	33.9 34	36.9 37			

COUNTRY: INDONESIA

Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	a/ 1970	a/ 1971	a/ 1972	a/ 1973	1974	c/ 1975	c/ 1976	c/ 1977	c/ 1978	c/ 1979	c/ 1980	1981	1982	1983
356	Plastic products n.e.c.	6.4 5	5.1 4	9.2 8	8.9 8	9	14.4 14	16.3 16	14.4 14	15.1 15	16.3 16	17.7 18			
361	Pottery, china etc.	0.8 1	1.2 1	1.3 1	1.3 1	1	2.0 2	2.4 2	3.1 3	3.3 3	5.3 5	6.8 7			
362	Glass and products	3.2 3	3.3 3	5.2 5	5.1 5	6	6.5 6	6.6 7	7.1 7	9.0 9	8.5 8	8.9 9			
369	Non-metal products n.e.c.	15.9 9	23.0 13	34.6 19	39.3 22	18	24.4 24	24.9 25	24.8 25	25.4 25	28.0 28	30.7 31			
371	Iron and steel	0	0	0	0	1	2.9 3	4.7 5	5.0 5	4.0 4	4.6 5	8.8 9			
372	Non-ferrous metals	0	0	0	0	1	3	0							
381	Metal products	16.7 14	20.8 17	25.5 21	27.3 22	21	22.3 22	31.0 31	29.3 29	32.2 32	35.3 35	40.8 41			

COUNTRY: INDONESIA

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	a/ 1970	a/ 1971	a/ 1972	a/ 1973	1974	c/ 1975	c/ 1976	c/ 1977	c/ 1978	c/ 1979	c/ 1980	1981	1982	1983
382	Machinery n.e.c.	4.8 4	9.2 8	9.3 9	12.9 12	7	8.8 9	7.1 7	10.5 10	10.2 10	10.9 11	11.9 12			
383	Electrical machinery	3.5 3	5.5 5	9.3 9	16.1 16	12	10.4 10	17.9 18	20.6 21	23.7 24	28.2 28	37.4 37			
384	Transport equipment	b/7.1 6	b/7.4 7	b/14.0 13	b/14.7 13	15	d/19.3 19	25.8 26	24.9 25	25.0 25	27.0 27	29.9 30			
385	Professional goods	0	0.1 0	0.2 0	0.2 0	0	0.4 0	0.4 0	0.7 1	0.7 1	0.8 1	1.0 1			
390	Other industries	7.6 6	10.4 8	15.2 12	5.0 4	5	4.5 4	4.0 4	4.3 4	4.8 5	5.8 6	5.7 6			

Notes on data of UN source

- a/ Manufacturing: establishments with 10 or more workers not using power equipment or with 5 or more workers using power equipment
- b/ Including repair of motor vehicles
- c/ Manufacturing: establishments with 20 or more persons engaged
- d/ Excluding three-wheeled vehicles and motorcycles









CODE	INDUSTRY	a/ 1970	a/ 1971	a/ 1972	a/ 1973	e/ 1974	c/ 1975	c/ 1976	c/ 1977	c/ 1978	c/ 1979	c/ 1980	1981	1982	1983
383	Electrical machinery	1.2	5.8	10.1	22.6		53.5	87.2	133.6	154.9	238.0	387.2			
		1.2	5.7	10.0	22.4	39.2 39.88	53.5	87.2	133.6	154.9	238.0	387.2			
384	Transport equipment	b/3.0	b/4.4	b/17.7	b/30.5		d/ 37.1	147.4	147.1	148.9	217.9	402.8			
		3.0	4.3	17.3	29.9	41.9 81.10	37.1	147.4	147.1	148.9	217.9	402.8			
385	Professional goods						0.5	0.6	1.2	1.9	1.9	2.8			
		0	0.0	0.1	0.1	0.4 0.58	0.5	0.6	1.2	1.9	1.9	2.8			
390	Other industries	1.1	1.0	3.0	4.5		2.8	6.2	5.8	13.6	19.5	24.7			
		0.9	0.8	2.5	3.7	3.4 8.81	2.8	6.2	5.8	13.0	19.5	24.7			

## Notes on data of UN source

- a/ Manufacturing: establishments with 10 or more workers not using power equipment or with 5 or more workers using power equipment
- b/ Including repair of motor vehicles
- c/ Manufacturing: establishments with 20 or more persons engaged
- d/ Excluding three-wheeled vehicles and motorcycles

## Notes on data of national source

- e/ Manufacturing: includes establishments engaging less than 5 persons
- f/ Data on manufacturing establishments with 20 or more persons engaged include commodity classifications of NSIC code 31249, 35120, 36120, 36220

COUNTRY: INDONESIA

## Wages and Salaries

Unit: Million Rupiahs

CODE	INDUSTRY	a/ 1970	a/ 1971	a/c/ 1972	a/c/ 1973	f/ 1974	c/d/ 1975	c/d/ 1976	c/d/ 1977	c/d/ 1978	c/d/ 1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1 NA2	10468	13693	16432	18616	21549	25063	27941	34349	39474	51657	71370			
313	Beverages	350	576	1175	1079	1895	2771	2582	4087	4658	5841	8321			
314	Tobacco	4057	3841	6118	6009	9238	10957	16411	19383	18813	24812	33563			
321	Textiles	6102	6592	11673	15774	17820	30998	34050	37592	45338	56521	77249			
322	Wearing apparel	48	53	111	131	447	436	460	612	832	1454	4881			
323	Leather and products	88		118	178	230	407	513	523	603	824	1137			
324	Footwear	281		42	430	139	2139	1775	1939	2660	2809	3294			
331	Wood products	432	1018	2155	2851	457	6178	8655	11013	13394	17968	31220			

COUNTRY: INDONESIA

## Wages and Salaries

Unit: Million Rupiahs

CODE	INDUSTRY	a/ 1970	a/ 1971	a/c/ 1972	a/c/ 1973	£/ 1974	c/d/ 1975	c/d/ 1976	c/d/ 1977	c/d/ 1978	c/d/ 1979	1980	1981	1982	1983
332	Furniture, fixtures	170	208	367	534	g/ 385	1071	1435	1328	1416	1560	2870			
341	Paper and products	249	557	1205	1335	164	2454	2635	3521	4566	5088	7487			
342	Printing, publishing	806	1286	1457	1453	21814	3590	2871	5591	5996	8265	12179			
351	Industrial chemicals	463	486	1163	1012	828	4137	5538	14113	7943	11900	17687			
352	Other chemical product	1621	1683	3771	4527	53220	8901	11817	13664	16392	25528	34080			
353	Petroleum refineries														
354	Petroleum, coal products														
355	Rubber products	5215	7236	10932	1396	7047	3002	4120	4565	11728	15710	20588			



COUNTRY: INDONESIA

## Wages and Salaries

Unit: Million Rupiahs

CODE	INDUSTRY	a/ 1970	a/ 1971	a/c/ 1972	a/c/ 1973	f/ 1974	c/d/ 1975	c/d/ 1976	c/d/ 1977	c/d/ 1978	c/d/ 1979	1980	1981	1982	1983
383	Electrical machinery	200	672	784	1898		2872	6374	9151	11947	16635	24318			
							3125								
384	Transport equipment	b/ 436	b/ 490	b/ 2437	b/ 2847		e/ 7290	13163	14049	14795	17732	27475			
							4356								
385	Professional goods		4	14	6		70	77	171	190	210	368			
							57								
390	Other industries	184	181	342	289		475	628	704	1080	1600	1962			
							740								

## Notes on data of UN source

- a/ Manufacturing: establishments with 10 or more workers not using power equipment or with 5 or more workers using power equipment
- b/ Including repair of motor vehicles
- c/ Including employer's contributions to pension and health insurance schemes
- d/ Manufacturing: establishments with 20 or more persons engaged
- e/ Excluding three-wheeled vehicles and motorcycles

## Notes on data of national source

- f/ Manufacturing: establishments with 20 or more persons engaged and establishments engaging less than 5 persons
- g/ Data on manufacturing establishments with 20 or more persons engaged include commodity classifications of NSIC code 31249, 35120, 36120, 36220

COUNTRY: INDONESIA

Value added (in Factor Values)

Unit: Billion Rupiahs

CODE	INDUSTRY	a/ 1970	a/ 1971	a/c/ 1972	a/c/ 1973	g/h/ 1974	d/e/ 1975	c/e/f/ 1976	c/e/f/ 1977	c/e/f/ 1978	c/e/f/ 1979	1980	1981	1982	1983
311/2	Food products	UN	33.25	59.01	99.25	121.42		120.0	108.7	139.0	165.1	233.2	235.9		
		UNIDO	32.5	46.2	64.8	75.7	101.9	120.0	108.7	139.0	165.1	233.2	235.9		
313	Beverages	NA1						162.7							
		NA2	1.76	2.80	3.66	5.54		11.8	13.1	15.2	12.3	20.5	32.1		
314	Tobacco		1.7	2.7	3.6	5.4	9.4	11.8	13.1	15.2	12.3	20.5	32.1		
			26.97	38.82	32.68	55.41		65.7	122.7	118.5	163.9	179.5	406.7		
321	Textiles		26.2	37.8	31.8	53.9	64.4	65.7	122.7	118.4	163.9	179.5	406.7		
			11.29	18.79	33.35	82.84		71.7	97.8	98.0	127.9	117.5	263.4		
322	Wearing apparel		10.8	17.9	31.8	79.1	66.5	71.7	97.8	98.0	127.9	177.5	263.4		
			1.01	0.15	0.31	0.45		0.9	1.0	1.5	2.9	5.6	9.1		
323	Leather and products		0.6	0.1	0.2	0.3	0.5	0.9	1.0	1.5	2.9	5.6	9.1		
			0.19		0.83	1.22		1.4	2.0	2.8	2.5	2.8	3.3		
324	Footwear		0.2	0.4	0.5	1.1	0.7	1.4	2.0	2.8	2.5	2.8	3.3		
			1.62		0.10	1.93		12.0	9.3	8.1	6.7	12.3	16.4		
331	Wood products		1.5	0.8	0.1	1.8	3.0	12.0	9.3	8.1	6.7	12.3	16.4		
			0.92	2.19	8.65	9.68		16.6	22.4	25.6	40.3	57.4	149.8		
		0.8	0.1	7.4	8.3	10.9	16.6	22.4	25.6	40.3	57.4	149.8			

COUNTRY: INDONESIA

Value added (in Factor Values)

Unit: Billion Rupiahs

CODE	INDUSTRY	a/ 1970	a/ 1971	a/c/ 1972	a/c/ 1973	g/h/ 1974	d/e/ 1975	c/e/f/ 1976	c/e/f/ 1977	c/e/f/ 1978	c/e/f/ 1979	1980	1981	1982	1983
332	Furniture, fixtures	0.23	0.58	0.43	1.24		1.7	2.1	1.9	2.2	2.5	3.6			
		0.2	0.4	0.3	0.9	1.2 i/ 17.0	1.7	2.1	1.9	2.2	2.5	3.6			
341	Paper and products	0.24	2.70	3.82	6.22		8.0	8.9	14.1	17.8	22.3	31.9			
		0.2	2.7	3.8	6.2	4.2 4.4	8.0	8.9	14.1	17.8	22.3	31.9			
342	Printing, publishing	0.89	3.12	2.90	2.50		9.2	10.5	11.9	15.7	22.4	31.9			
		0.8	2.7	2.5	2.2	6.1 8.0	9.2	10.5	11.9	15.7	22.4	31.9			
351	Industrial chemicals	1.29	1.06	3.44	5.56		33.1	46.4	56.0	76.0	81.1	90.8			
		1.3	1.0	3.4	5.4	13.1 5.1	33.1	46.4	56.0	76.0	81.1	90.8			
352	Other chemical products	4.46	5.40	19.53	17.01		24.7	33.5	50.8	56.9	59.9	*151.3			
		4.3	5.2	18.9	16.4	15.1 16.6	24.7	33.5	50.8	56.9	59.9	151.3			
353	Petroleum refineries	0	0	0	0	0	85.8	0							
354	Petroleum, coal products														
355	Rubber products	10.96	33.40	32.48	6.97		8.6	21.8	22.4	57.1	70.0	102.6			
		1.2	1.7	2.8	4.2	6.8 35.1	8.6	21.8	22.4	57.1	70.0	102.6			



COUNTRY: INDONESIA

Value added (in Factor Values)

Unit: Billion Rupiahs

CODE	INDUSTRY	a/ 1970	a/ 1971	a/c/ 1972	a/c/ 1973	g/h/ 1974	d/e/ 1975	c/e/f/ 1976	c/e/f/ 1977	c/e/f/ 1978	c/e/f/ 1979	1980	1981	1982	1983
356	Plastic products n.e.c.	0.31	0.71	1.27	1.33		5.3	4.3	8.3	11.9	13.9	15.5			
		0.3	0.6	1.1	1.2	3.0	5.3	4.3	8.3	11.9	13.9	15.5			
361	Pottery, china etc.	0.05	0.86	0.82	0.58		0.9	1.2	1.5	2.3	3.2	5.1			
		0.0	0.8	0.7	0.5	0.5	0.9	1.2	1.5	2.3	3.2	5.1			
362	Glass and products	0.16	0.66	1.00	2.22		3.0	4.1	9.0	20.4	20.8	22.5			
		0.2	0.7	1.0	2.2	2.5	3.0	4.1	9.0	20.4	20.8	22.5			
369	Non-metal products n.e.c.	3.24	3.88	10.72	8.82		21.8	32.3	51.6	72.5	89.3	125.1			
		2.9	3.4	9.5	7.8	11.1	21.8	32.3	51.6	72.5	89.3	125.1			
371	Iron and steel						1.1	5.4	9.2	4.9	16.9	67.0			
		0	0	0	0	0.7	1.1	5.4	9.2	4.9	16.9	67.0			
372	Non-ferrous metals														
		0	0	0	0	2.2	4.3	0							
381	Metal products	3.24	3.38	6.99	11.72		16.9	26.0	29.5	29.3	41.9	74.2			
		3.0	3.2	6.6	11.0	11.3	16.9	26.0	29.5	29.3	41.9	74.2			
382	Machinery n.e.c.	0.42	0.57	2.19	3.93		8.0	6.6	9.0	17.4	25.8	33.4			
		0.4	0.6	2.2	3.9	8.8	8.0	6.6	9.0	17.4	25.8	33.4			

CODE	INDUSTRY	a/ 1970	a/ 1971	a/e/ 1972	a/c/ 1973	g/h/ 1974	d/e/ 1975	c/e/f/ 1976	c/e/f/ 1977	c/e/f/ 1978	c/e/f/ 1979	1980	1981	1982	1983
383	Electrical machinery	0.38	3.38	3.43	8.99		18.3	26.4	40.6	48.8	57.6	112.6			
		0.4	3.3	3.4	8.9	15.4	18.3	26.4	40.6	48.8	57.6	112.6			
384	Transport equipment	b/ 0.86	b/ 1.23	b/ 8.33	b/ 10.68		20.3	38.1	49.1	49.9	68.7	136.1			
		0.8	1.2	8.2	10.5	20.9	20.3	38.1	49.1	49.9	68.7	136.1			
385	Professional goods		0.01	0.02	0.02		0.2	0.3	0.5	1.2	1.1	1.4			
		0	0.0	0.0	0.0	0.1	0.2	0.3	0.5	1.2	1.1	1.4			
390	Other industries	0.77	0.37	1.34	2.68		1.1	3.5	2.4	2.4	4.2	8.3			
		0.7	0.4	1.3	2.6	1.5	1.1	3.5	2.4	2.4	4.2	8.3			

## Notes on data of UN source

- a/ Manufacturing: establishments with 10 or more workers not using power equipment or with 5 or more workers using power equipment
- b/ Including repair of motor vehicles
- c/ Net of non-industrial costs
- d/ Excluding three-wheeled vehicles and motorcycles
- e/ Manufacturing: establishments with 20 or more persons engaged
- f/ Electricity, gas and water supply: in producer's prices

## Notes on data of national source

- g/ Manufacturing: includes establishments engaging less than 5 persons
- h/ Data on small manufacturing establishment: in market cost  
Data on household and cottage industries: in census value added
- i/ Data on manufacturing establishments with 20 or more persons engaged include commodity classifications of NSIC code 31249, 35120, 36120, 36220



CODE	INDUSTRY	a/b/ 1970	a/b/ 1971	a/b/ 1972	a/b/ 1973	d/ 1974	b/d/ 1975	b/d/ 1976	b/d/ 1977	b/d/ 1978	b/d/ 1979	b/d/ 1980	1981	1982	1983
332	Furniture, fixtures	0	0.09	0	0.12	0	0.45	0.26	0.75	0.52	0.92	1.14			
			0.09	0	0.12	1.27 E/	0.45	0.26	0.75	0.52	0.92	1.14			
341	Paper and products	0.01	1.93	0.24	1.25	0	2.39	5.22	1.66	8.48	8.80	7.70			
		0.01	1.93	0.24	1.25	0.78	2.39	5.22	1.66	8.48	8.80	7.70			
342	Printing, publishing	0.29	1.05	1.70	0.53	0	5.05	4.59	4.48	5.03	5.78	8.14			
		0.29	1.05	1.70	0.53	1.78	5.05	4.59	4.48	5.03	5.78	8.14			
351	Industrial chemicals	0.73	0.76	5.39	1.03	0	2.92	3.67	3.02	30.78	15.16	21.28			
		0.73	0.76	5.39	1.03	1.62	2.92	3.67	3.02	30.78	15.16	21.28			
352	Other chemical products	1.03	2.63	3.36	7.19	0	7.70	5.95	7.04	14.15	13.35	22.21			
		1.03	2.63	3.36	7.19	5.53	7.70	5.95	7.04	14.15	13.35	22.21			
353	Petroleum refineries														
354	Petroleum, coal products														
355	products	4.62	6.80	12.45	2.01		5.89	4.13	4.02	10.09	11.24	13.28			
		4.62	6.80	12.45	2.01	8.63	5.89	4.13	4.02	10.09	11.24	13.28			

COUNTRY: INDONESIA

## Gross Fixed Capital Formation

Unit: Billion Rupiahs

CODE	INDUSTRY	a/b/ 1970	a/b/ 1971	a/b/ 1972	a/b/ 1973	d/ 1974	b/d/ 1975	b/d/ 1976	b/d/ 1977	b/d/ 1978	b/d/ 1979	b/d/ 1980	1981	1982	1983
356	Plastic products n.e.c.	0.30	0.15	0.72	0.35		4.77	3.70	3.81	5.07	4.38	7.68			
		0.30	0.15	0.78	0.35	0	4.77	3.70	3.81	5.07	4.38	7.91			
361	Pottery, china etc.		0.20	0.08	0.03		0.34	0.51	0.09	0.18	2.40	7.68			
		0	0.20	0.08	0.03	0	0.34	0.51	0.09	0.18	2.40	7.68			
362	Glass and products	0.01	0.32	0.89	0.11		1.77	1.48	10.57	3.45	5.85	7.21			
		0.01	0.32	0.89	0.11	0	1.77	1.48	10.57	3.45	5.85	7.21			
369	Non-metal products n.e.c.	0.28	0.32	4.38	0.17		28.42	19.24	12.07	60.61	80.29	68.43			
		0.28	0.32	4.38	0.17	0	28.42	19.24	12.07	60.61	80.29	68.43			
371	Iron and steel						0.62	1.73	1.47	1.52	12.15	8.13			
		0	0	0	0	0	0.62	1.73	1.47	1.52	12.15	8.13			
372	Non-ferrous metals														
						0.21									
381	Metal products	1.13	1.61	2.92	8.05		9.19	5.86	11.00	8.66	12.22	20.34			
		1.13	1.61	2.92	8.05	0	9.19	5.86	11.00	8.66	12.22	20.34			
382	Machinery n.e.c.	0.08	0.23	0.83	0.57		1.34	1.82	1.60	2.34	2.37	3.54			
		0.08	0.23	0.83	0.57	0	1.34	1.82	1.60	2.34	2.37	3.54			

CODE	INDUSTRY	a/b/ 1970	a/b/ 1971	a/b/ 1972	a/b/ 1973	d/ 1974	b/d/ 1975	b/d/ 1976	b/d/ 1977	b/d/ 1978	b/d/ 1979	b/d/ 1980	1981	1982	1983
383	Electrical machinery	0.33	0.42	3.07	1.52		4.07	8.60	10.52	9.57	12.46	16.02			
		0.33	0.42	3.07	1.52	0	4.07	8.60	10.52	9.57	12.46	16.02			
						5.19									
384	Transport equipment	c/ 1.46	c/ 0.54	c/ 4.39	c/ 3.05		e/ 16.76	9.89	12.63	16.62	20.64	20.34			
		1.46	0.54	4.39	3.05	0	16.76	9.89	12.63	16.62	20.64	20.34			
385	Professional goods						0.01	0.03	0.10	0.07	0.06	0.12			
		0	0	0	0	0	0.01	0.03	0.10	0.07	0.06	0.12			
390	Other industries	0.03	0.28	0.19	0.94		0.88	1.12	0.77	1.45	2.32	1.94			
		0.03	0.28	0.19	0.94	0	0.88	1.12	0.77	1.45	2.32	1.94			
						0.04									

## Notes on data of UN source

- a/ Manufacturing: establishments with 10 or more workers not using power equipment or with 5 more workers using power equipment
- b/ The value of sales is not deducted
- c/ Including repair of motor vehicles
- d/ Manufacturing: establishments with 20 or more persons engaged
- e/ Excluding three-wheeled vehicles and motorcycles

## Notes on data of national source

- f/ Data on manufacturing establishments with 20 or more persons engaged include commodity classifications of NSIC code 31249, 35120, 36120, 36220

COUNTRY: INDONESIA

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food product UN UNIDO NA1 NA2		69	73	80	80	90	100	148	174	173	201	235	231	
								100	148	174	173	201	235	231	
313	Beverages		42	53	75	85	95	100	94	103	105	118	129	136	
								100	94	103	105	118	129	136	
314	Tobacco		60	63	69	77	87	100	104	122	121	122	147	170	
								100	104	122	121	121	147	170	
321	Textiles		42	40	59	80	90	100	108	108	111	116	122	130	
								100	108	106	111	116	122	130	
322	Wearing apparel		53	72	82	91	96	100							
323	Leather and products		23	43	43	68	96	100	129						
324	Footwear		41	66	74	70	85	100	114	115	119	112	130	123	
								100	114	115	119	112	130	123	
331	Wood products		73	81	81	68	87	100	118	197	218	220	392	470	
								100	118	197	218	220	392	470	

COUNTRY: INDONESIA

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	45	48	54	68	96	100	113							
341	Paper and products	32	40	52	85	95	100	98	107	134	151	153	152		
							100	98	107	134	151	153	152		
342	Printing, publishing	38	40	45	38	92	100	124							
351	Industrial chemicals	58	67	72	90	95	100	87	143	213	277	372	390		
							100	87	143	213	278	372	390		
352	Other chemical products	77	92	89	89	94	100	98	95	104	103	123	163		
							100	98	95	104	103	123	163		
353	Petroleum refineries	101	104	115	135	119	100	138	187	194	198	205	207		
354	Petroleum, coal products														
355	Rubber products	46	46	44	50	75	100	137	168	203	227	257	301		
							100	137	168	203	227	257	301		



COUNTRY: INDONESIA

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	16	23	33	31	59	100 100	72							
361	Pottery, china etc.	68	73	83	68	97	100 100	129							
362	Glass and products	42	45	50	90	95	100 100	94 94	139 139	180 160	171 171	208 208	257 257		
369	Non-metal products n.e.c.	39	40	44	50	75	100 100	125 125	178 178	255 255	314 314	367 367	395 395		
371	Iron and steel	9	15	36	50	75	100 100	137 137	141 141	180 180	443 443	1034 1034	1248 1248		
372	Non-ferrous metals						100								
381	Metal products	33	34	40	60	82	100 100	109 109	133 133	154 154	154 154	172 172	188 188		
382	Machinery n.e.c.	30	29	31	49	83	100 100	92	82	100	146	165	182		

COUNTRY: INDONESIA

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	27	30	30	42	75	100 100	123 123	173 173	217 217	219 219	315 315	322 322		
384	Transport equipment	54	60	72	86	93	100 100	91 91	82 82	95 95	80 80	124 124	174 174		
385	Professional goods	73	85	96	158	128	100 100	172							
390	Other industries	73	85	96	158	128	100	172							

**III. Convertors between ISIC and National Industrial Classification**

ISIC Code	NIC Code	NIC Sector
31	31	MANUFACTURE OF FOOD, BEVERAGES AND TOBACCO
311A	311	FOOD MANUFACTURING
3111	3111	SLAUGHTERING, PREPARING AND PRESERVING MEAT
3112	3112	MANUFACTURING OF DAIRY PRODUCTS
3113	3113	CANNING AND PRESERVING OF FRUITS AND VEGETABLES
3114	3114	CANNING, PRESERVING & PROCESSING OF FISH AND SIMILAR FOODS
3115	3115	MANUFACTURE OF VEGETABLE AND ANIMAL OILS AND FATS
3116	3116	GRAIN MILL PRODUCTS
3116	3121	MNF. OF TAPIOCA FLOUR, SAGO, CASSAVA FLOUR & OTHER FLOUR
3117	3117	MANUFACTURE OF BAKERY PRODUCTS
3118	3118	SUGAR FACTORIES AND REFINERIES
3119	3119	MNF. OF COCOA, CHOCOLATE AND SUGAR CONFECTIONERY
3121	3122	TEA PROCESSING
3121	3123	MANUFACTURING OF ICE
3121	31241	SOYA SAUCE MANUFACTURING
3121	31242	MANUFACTURE OF TAMU, TEMPE, ONCOM AND SIMILAR PRODUCTS
3121	31249	MANUFACTURE OF OTHER SOYA BEAN PRODUCTS
3121	3125	MANUFACTURE OF KRUPUK, EMPING, KAKAR AND OTHER CHIPS
3121	3126	MANUFACTURE OF COFFEE POWDER AND FRIED
3121	3127	MANUFACTURE OF SEASONING
3121	3129	MANUFACTURE OF FOOD PRODUCTS N.E.C.
3122	3128	MANUFACTURE OF CATTLE FOOD
313	313	BEVERAGES MANUFACTURING
3131	3131	DESTILLING, RECTIFYING AND BLENDING SPIRITS
3132	3132	WINE INDUSTRIES
3133	3133	MALT LIQUORS AND MALT
3134	3134	SOFT DRINKS AND CARBONATED WATERS INDUSTRIES
314	314	TOBACCO MANUFACTURING
3140	3141	DRYING AND PROCESSING TOBACCO
3140	3142	MANUFACTURE OF CIGARETTE
3140	3143	CIGARETTES MANUFACTURING
3140	3149	MANUFACTURE OF OTHER TOBACCO PRODUCTS
32	32	TEXTILE, WEAVING APPAREL AND LEATHER INDUSTRIES
321	321	MANUFACTURE OF TEXTILES
3211	3211	SPINNING, WEAVING AND FINISHING TEXTILES
3212	3212	MNF. OF MADE-UP TEXTILES GOODS EXCEPT WEAVING APPAREL
3213	3213	KNITTING MILLS
3214	3214	MANUFACTURE OF CARPETS AND RUGS
3214	3216	CAPACK MANUFACTURING
3215	32115	MANUFACTURE OF GUM BAGS & PLASTIC BAGS
3215	3215	CORDAGE, ROPE AND TWINE INDUSTRIES
3219	3219	MANUFACTURE OF TEXTILE NOT ELSEWHERE CLASSIFIED
322	322	MANUFACTURE OF WEAVING APPAREL, EXCEPT FOOTWEAR
3220	3221	MANUFACTURE OF WEAVING APPARELS
3220	3229	MANUFACTURE OF WEAVING APPARELS N.E.C.
323	323	MNF OF LEATHER & PRODUCTS OF LEATHER, LEATHER SUBSTITUTE
3231	3231	TANNERIES AND LEATHER FINISHING
3232	-	
3233	3233	MANUFACTURE OF PRODUCTS OF LEATHER
324	324	MNF. OF FOOTWEAR EXCEPT OF WOOD, VULCANIZED OR MOULDED RUBBER
3240	3240	MNF. OF FOOTWEAR EXCEPT OF WOOD, VULCANIZED OR MOULDED RUBBER
33	33	MANUFACTURE OF WOOD & WOOD PRODUCTS, INCLUDING FURNITURE
331	331	MANUFACTURE OF WOOD & WOOD PRODUCTS, EXCEPT FURNITURE
3311	3311	SAWMILLS, PLANING AND OTHER WOOD MILLS
3312	3312	MANUFACTURE OF WOODEN AND CANE CONTAINERS

ISIC Code	NIC Code	NIC Sector
3312	3313	MANUFACTURE OF BAMBOO, RATTAN AND WILLOW FLEETS
3319	3314	MANUFACTURE OF HANDICRAFT & WOOD CARVING
3319	3319	MANUFACTURE OF WOOD AND COBK PRODUCTS N.E.C.
332	332	MNF. OF FURNITURE AN DFIXTURES, EXCEPT PRIMARILY METAL
3320	3521	MNF. OF FURNITURE AND FIXTURES, PRCHABLY OF WOOD
3320	3322	MANUFACTURE OF ALL KIND OF MATTRES
34	34	MNF. OF PAPER & PAPER PRODUCTS; PRINTING & PUBLISHING
341	341	MANUFACTURE OF PAPER AND PAPER PRODUCTS
3411	3411	MANUFACTURE OF PULP, PAPER AND PAPERBOARD
3412	3412	MNF. OF CONTAINERS AND BOXES OF PAPER & PAPERBOARD
3419	3419	MNF. OF PULP, PAPER & PAPERBOARD ARTICLES N.E.C.
3420	3420	PRINTING, PUBLISHING AND ALLIED INDUSTRIES
35	35	MNF. OF CHEMICAL, AND OF CHEMICALS, PETROLEUM, COAL PRODUCTS
351	351	MANUFACTURE OF INDUSTRIAL CHEMICALS
3511	3511	MNF. OF BASIC INDUSTRIAL CHEMICALS EXCEPT FERTILIZERS
3512	3512	MANUFACTURE OF FERTILIZERS
3512	3514	MANUFACTURE OF MOSQUITO INCENSE COIL
3513	3513	MNF. OF RESINS, PLASTIC MATERIALS & SYNTHETIC FIBRES
352	352	MANUFACTURE OF OTHER CHEMICAL PRODUCTS
3521	3521	MANUFACTURE OF PAINTS, VARNISHES AND LACQUES
3522	3522	MANUFACTURE OF DRUGS AND MEDICINES
3523	3523	MNF. OF SOAP & CLEANING PREPARATIONS, PERFUMS, COSMETICS ETC
3529	35232	MANUFACTURE OF MATCHES
3529	3529	MANUFACTURE OF CHEMICAL PRODUCTS NOT ELSEWHERE CLASSIFIED
353	353	PETROLEUM REFINERIES
3530	-	
354	354	MNF. OF MISCELLANEOUS PRODUCTS OF PETROLEUM & COAL
3540	-	
355	355	MANUFACTURE OF RUBBER PRODUCTS
3551	3551	TYRE AND TUBE INDUSTRIES
3559	35521	MANUFACTURE OF RUBBER SECKING
3559	35522	MANUFACTURE OF REHILLING RUBBER
3559	35523	MANUFACTURE OF CRUMB RUBBER
3559	3559	MANUFACTURE OF RUBBER PRODUCTS N.E.C.
356	356	MANUFACTURE OF PLASTIC WARES
3560	3560	MANUFACTURE OF PLASTIC PRODUCTS N.E.C.
36	36	MNF. OF NON-METALIC MINERAL PRODUCTS EXC. PRODUCTS OF PETROLEUM
361	361	MNF. OF POTTERY, CHINA AND CLAY PRODUCTS
3610	6311	MANUFACTURE OF CERAMIC AND PORCELAIN
3620	3621	MANUFACTURE OF GLASS AND GLASS PRODUCTS
3620	3622	MANUFACTURE OF SHEET GLASS
369	369	MNF. OF OTHER NON METALIC MINERAL PRODUCTS
3691	3641	MANUFACTURE OF BRICKS
3691	3642	MANUFACTURE OF ROOFING TILES
3691	3649	MANUFACTURE OF STRUCTURAL CLAY PRODUCTS
3692	3631	MANUFACTURE OF CEMENT
3692	3632	MANUFACTURE OF GOODS MADE FROM CEMENT
3692	3633	MANUFACTURE OF LIME
3699	3690	MANUFACTURE OF OTHER NON-METALIC MINERAL PRODUCTS
37	37	MANUFACTURE OF BASIC METAL
371	371	IRON AND STEEL BASIC INDUSTRIES
3710	3710	IRON AND STEEL BASIC INDUSTRIES
372	-	
3720	-	
38	38	MNF. OF FABRICATED METAL PRODUCTS, MACHINERY & EQUIPMENT

NIC Sector

ISIC Code	NIC Code	Description
381	381	MNF. OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY & EQUIPMENT
3811	3811	MNF. OF CUTLERY, HAND TOOLS AND GENERAL HAIRWARE
3812	3812	MNF. OF FURNITURE AND FIXTURES PRIMARILY OF METAL
3813	3813	MANUFACTURE OF STRUCTURAL METAL PRODUCTS
3819	3814	MANUFACTURE OF METAL CONTAINERS
3819	3819	MANUFACTURE OF METAL PRODUCTS N.E.C.
382	382	MANUFACTURE OF MACHINERY EXCEPT ELECTRICAL
3821	38200	MNF. OF MACHINERIES & REPAIR INCL. MACHINERIES & SEWING MACHINE
3822	-	
3823	-	
3824	-	
3825	-	
3829	-	
383	383	MNF. OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES
3831	-	
3832	3832	MNF. OF RADIO, TELEVISION & COMMUNICATION EQUIPMENT
3833	3833	MANUFACTURE OF ELECTRICAL APPARATUS AND SUPPLIES
3833	3834	REPAIR OF ELECTRICITY APPLIANCES
3839	-	
384	384	MANUFACTURE OF TRANSPORT EQUIPMENT
3841	3841	SHIP BUILDING AND REPAIRING
3842	3842	MANUFACTURE OF RAILROAD EQUIPMENT
3843	3843	MANUFACTURE OF MOTOR VEHICLES ASSEMBLING
3844	3844	MANUFACTURE OF MOTORCYCLES & THREE WHEEL MOTOR VEHICLES
3844	3845	BICYCLE, BECA ASSEMBLING & MANUFACTURING
3844	3846	MANUFACTURE OF MOTOR VEHICLES BODY AND EQUIPMENT
3845	-	
3849	3849	MANUFACTURE OF TRANSPORT EQUIPMENT N.E.C.
385	385	MNF. OF PROFESSIONAL & SCIENTIFIC & MEASURING EQUIPMENT N.E.C
3851	-	
3852	-	
3853	-	
39	39	OTHER MANUFACTURING INDUSTRIES
390	390	OTHER MANUFACTURING INDUSTRIES
3901	3901	MANUFACTURE OF JEWELLERY
3902	3902	MANUFACTURE OF MUSICAL INSTRUMENTS
3903	3903	MANUFACTURE OF SPORTING AND ATHLETIC GOODS
3909	3904	TYCS MANUFACTURING
3909	3906	MANUFACTURE OF STATIONERIES
3909	3909	MANUFACTURE OF INDUSTRIES N.E.C.

#### IV. Commodity Balance Sheets

##### 1. Explanatory Notes

##### 2. Statistical Tables

- 2. 1 Palm oil
- 2. 2 Coconut oil
- 2. 3 Flour, wheat
- 2. 4 Sugar, raw
- 2. 5 Sugar, refined
- 2. 6 Tea
- 2. 7 Cigarettes
- 2. 8 Tobacco, manufactured
- 2. 9 Cotton yarn
- 2.10 Batik (cloth)
- 2.11 Textile
- 2.12 Batik (goods)
- 2.13 Sawn wood
- 2.14 Plywood
- 2.15 Nitrogenous fertilizers (urea)
- 2.16 Pesticide, Insecticide
- 2.17 Matches
- 2.18 Soap
- 2.19 Tyre and tubes
- 2.20 Rubber
- 2.21 Cement
- 2.22 Concrete iron
- 2.23 G.I. sheet (galvanized sheet-iron)
- 2.24 Copper ores and concentrates
- 2.25 Tin ores and concentrates
- 2.26 Television receivers
- 2.27 Radio receivers
- 2.28 Motor cycles
- 2.29 Passenger motor car

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).



QUANTITY UNIT CODEAppendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL*	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG*	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL*	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS*	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX*	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN*	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT*	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS	SMM	SQUARE METRES		
FLN	FLASKS	SMN	SQUARE METRES		
FTN	FEET	SPM	NUMBER OF SPINDLES		
GIN	IMPERIAL GALLONS	STN	SHORT TONS		
GPN	PROOF GALLONS				
GRN	GROSS				

Note: The codes put on "\*" are prepared by IDE.

CUURENCY UNIT CODE

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHLIPPINES
S\$	SD	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Source

Source No.

1. UN, Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics.
2. UN, Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics.
3. ESCAP, Statistical Yearbook.
4. AIDXT(International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base.
7. UNIDO, Production Index Data Base.
8. UN, Yearbook of International Trade Statistics.
9. UN, Statistical Yearbook.
- 10.
11. Survey of Manufacturing Industries.
12. Statistical Yearbook of Indonesia.
13. Indonesian Mining Yearbook.
14. Export.
15. Import.

Country: Indonesia

Commodity: Palm oil

ISIC Code	311534*								Note:
NSIC Code	31151	31159							
SITC Code	422.2								
NSIC Code	150740								
Source	Quantity				Value				
	11	4	4	11	4	4	11	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TN		1000TN	TN	1000RP		1000000\$	1000\$	
1970	-		159.2	-	-		35.1	-	
1971	37901		209.0	-	2777714		44.7	-	
1972	130837		236.5	-	10770164		41.3	-	
1973	276344		262.7	72	28157810		70.2	35	
1974	-		281.2	174	-		157.3	12	
1975	568		386.2	17	85453		151.6	3	
1976	352		405.6	7	67397		135.5	2	
1977	300		404.6	0	23408		183.6	-	
1978	355		412.2	-	86265		208.8	-	
1979	260		351.3	-	73395		204.4	-	
1980	1218		502.9	1	379430		254.3	1	
1981	-		196.4	33288	-		106.9	17476	
1982	-		259.5	63	-		96.2	42	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Coconut oil

ISIC Code	311534 *								Note:
NSIC Code	31151 31159								
SITC Code	422.3								
NSTC Code	150745								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		1000TM	TM	1000RP		1000000\$	1000\$	
1970	-		4.40	-	-		1.20	-	
1971	164214		0.81	4	17812304		0.18	7	
1972	297087		34.20	17	29010624		4.80	7	
1973	404413		16.50	281	82113069		2.60	139	
1974	-		-	383	-		-	204	
1975	147210		26.70	374	22600779		3.30	185	
1976	149024		13.30	1490	31958236		1.60	467	
1977	136878		-	10695	39174956		-	3241	
1978	119710		-	92472	43714945		-	56779	
1979	143346		20.70	27411	53242614		14.80	22353	
1980	144691		40.60	354	56321698		25.80	172	
1981	-		3.50	675	-		1.50	293	
1982	-		-	880	-		-	319	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Flour, Wheat

ISIC Code	311501								Note:
NSIC Code	31164 312101								
SITC Code	045.01								
NSTC Code	0110110								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000RP		1000\$	1000\$	
1970	-		-	324501	-		-	29619	
1971	31717		-	123794	1283257		-	14834	
1972	279087		-	21063	12879092		-	2509	
1973	606910		-	21204	25938097		-	3560	
1974	-		-	2433	-		-	511	
1975	592584		-	40	47709405		-	14	
1976	696306		2	1925	69763795		2	630	
1977	774187		-	3891	78192887		-	1064	
1978	836904		-	3328	84582620		-	891	
1979	865827		-	411	114134004		-	109	
1980	998404		-	4297	134933851		-	1468	
1981	-		-	3060	-		-	1108	
1982	-		-	2260	-		-	520	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Sugar, raw

ISIC Code	311801								Note:
NSIC Code	31181								
SITC Code	061.1								
NSTC Code	170110								
	Quantity				Value				
Source	2		4	4			4	4	
Unit	Production 1000TM	Shipment	Export TM	Import TM	Production	Shipment	Export 1000\$	Import 1000\$	
1970	708		-	17			-	3	
1971	834		-	174			-	23	
1972	889		10	40			2	15	
1973	820		-	13730			-	2099	
1974	1024		-	-			-	-	
1975	1036		-	13			-	11	
1976	1056		-	5			-	4	
1977	1105		-	8585			-	2538	
1978	1126		-	5752			-	1817	
1979	1200		-	1			-	1	
1980	1177		-	-			-	-	
1981	1200		-	32			-	37	
1982	-		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Indonesia

Commodity: Sugar, refined

ISIC Code	311804								Note:
NSIC Code	31181								
SITC Code	061.2								
NSIC Code	170190								
	Quantity				Value				
Source	2		4	4			4	4	
Unit	Production 1000TH	Shipment	Export TH	Import TH	Production	Shipment	Export 1000\$	Import 1000\$	
1970	662		15	97113			2	8864	
1971	829		6	150903			5	18059	
1972	804		-	2470			-	514	
1973	778		-	29955			-	4571	
1974	-		-	76912			-	19552	
1975	1055		700	81376			351	30906	
1976	1056		-	201548			-	107425	
1977	1145		3	213280			1	98886	
1978	936		-	424075			-	178604	
1979	1091		-	292794			-	127624	
1980	1149		-	397617			-	159021	
1981	-		-	719806			-	577722	
1982	-		-	685711			-	419200	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: Indonesia

Commodity: Tea

ISIC Code	3121*								Note:
NSIC Code	31220								
SITC Code	074.1								
NSTC Code	090210								
	Quantity				Value				
Source	12		4	4	12		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		1000TN	TN	1000RP		1000000\$	1000\$	
1969	-		36.1	-	-		9.0	-	
1970	63.5		41.4	25	-		18.3	9	
1971	62.0		44.8	23	-		28.9	10	
1972	60.2		44.0	72	7444042		30.6	25	
1973	67.4		39.6	46	-		26.1	30	
1974	64.4		55.7	73	-		46.3	54	
1975	69.4		45.9	36	2359487		51.5	43	
1976	73.0		47.5	59	2844389		56.6	105	
1977	80.1		51.3	65	7035779		118.5	110	
1978	89.1		56.2	60	3386491		94.7	178	
1979	91.0		53.6	51	7209215		83.4	147	
1980	98.7		74.2	51	10317679		112.7	156	
1981	108.8		71.3	56	-		100.8	194	
1982	91.7		63.7	51	-		89.5	183	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Cigarettes

ISIC Code	314007								Note:
NSIC Code	31420		31430						
SITC Code	122.2								
NSTC Code	24022								
	Quantity				Value				
Source	3		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000\$	1000\$	
1970	3878		0	51			2	31	
1971	5015		-	37			-	69	
1972	5453		-	46			-	79	
1973	6813		-	178			-	466	
1974	7059		-	1084			-	2551	
1975	6478		113	1248			677	6046	
1976	8736		103	1446			694	7885	
1977	8764		58	1245			468	7917	
1978	7560		58	1367			519	8391	
1979	8574		87	732			859	5051	
1980	8972		124	601			1361	4815	
1981	8165		203	605			2418	4717	
1982	7534		346	492			4202	4142	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Indonesia

Commodity: Tobacco, manufactured

ISIC Code	314010								Note:
NSIC Code	31420		31430		31490				
SITC Code	122								
NSTC Code									
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		1000TH	TH	1000000RP		1000000\$	1000\$	
1970	-		11.0	53	-		4.2	33	
1971	-		18.3	57	89737		15.2	124	
1972	-		26.2	344	110857		30.0	509	
1973	-		33.3	404	136674		39.7	906	
1974	-		28.1	1265	-		35.5	2969	
1975	-		10.0	1484	314055		22.6	7019	
1976	-		20.4	1609	442772		38.5	8770	
1977	-		25.8	1326	529890		54.9	8295	
1978	-		25.5	1444	603805		54.6	8892	
1979	-		23.3	788	789637		56.5	5351	
1980	-		28.3	681	1066789		58.8	5297	
1981	-		25.1	624	-		50.0	4858	
1982	-		19.4	506	-		37.7	4277	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Cotton yarn

ISIC Code	321109								Note:
HSIC Code	32111	32112							
SITC Code	651.3	651.41							
NSIC Code	5505	5506							
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000RP		1000\$	1000\$	
1970	-		-	28742	-		-	31042	
1971	30574		-	23930	14335224		-	19264	
1972	28372		-	25127	-		-	23729	
1973	43299		-	28525	35170695		-	28584	
1974	-		-	14949	-		-	20272	
1975	34624		-	5461	28031437		-	8222	
1976	47260		-	1494	43739194		-	3126	
1977	39982		-	1513	47205396		-	5560	
1978	50387		363	603	56507304		790	2591	
1979	51217		574	842	82066195		1405	3253	
1980	54537		154	663	101398729		384	2503	
1981	-		-	-	-		-	-	
1982	-		-	-	-		-	-	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Batik (cloth)

ISIC Code	3211								Note:
NSIC Code	32113	32114							
SITC Code	652	653							
NSTC Code	5509								
Source	Quantity				Value				
	Production	Shipment	14 Export	15 Import	11 Production	Shipment	14 Export	15 Import	
Unit			TH	TH	1000RP		\$	\$	
1970	-		-	-	-		-	-	
1971	-		-	-	2562517		-	-	
1972	-		-	-	5545949		-	-	
1973	-		-	-	13805362		-	-	
1974	-		-	-	-		-	-	
1975	-		15	256473	12621152		124933	687792	
1976	-		26	129154	24482097		180223	667736	
1977	-		9	43459	13391633		67201	197193	
1978	-		67	386	15336941		387789	7329	
1979	-		194	83246	20116730		1926128	247967	
1980	-		11	47	26505762		126384	2672	
1981	-		2	-	-		8312	-	
1982	-		-	-	-		-	-	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Textile

ISIC Code		3211							Note: Data on 1970-1974 includes cloth of batik  a/ includes all kind of textile fabrics
NSIC Code		32112	32113	32111	32114				
SITC Code		652	653	654					
NSTC Code		5507, 5508 and others <sup>a/</sup>							
		Quantity				Value			
Source		4	4	11		4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit			TH	TH	1000RP		1000\$	1000\$	
1970	-		707	62420.0	-		1483	3788.4	
1971	-		468	27 85.0	24889767		1234	35293	
1972	-		600	29016.0	58589408		1706	41393	
1973	-		646	32907.0	65209976		2606	50846	
1974	-		695	47838.0	-		3563	49347	
1975	-		101	19057.0	198856754		348	46425	
1976	-		26	14116.0	129277244		142	55353	
1977	-		17	10858.0	161896792		66	47579	
1978	-		43	11373.6	208494454		283	49420	
1979	-		6125	20513.0	294807838		35851	55199	
1980	-		5065	23741.0	315671067		31296	82943	
1981	-		-	-	-		-	-	
1982	-		-	-	-		-	-	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Batik (goods)

Source	Quantity				Value			
	Production	Shipment	14 Export TM	15 Import TM	11 Production 1000RP	Shipment	14 Export 1000\$	15 Import \$
1970	-		656	-	-		1433	-
1971	-		378	45	70763		1096	53
1972	-		428	13585	463875		1426	10453
1973	-		94	-	1533206		2386	-
1974	-		567	-	-		3352	-
1975	-		571	1504	2064194		1490	1627
1976	-		456	1598	3227321		313041	4564
1977	-		477	-	1188021		2697	-
1978	-		601	-	2290826		3733	-
1979	-		1357	86	1717032		27024	4395
1980	-		1687	216	2164163		15343	3517
1981	-		785	-	-		5097	-
1982	-		-	-	-		-	-
1983	-		-	-	-		-	-
1984	-		-	-	-		-	-

Note:

Data on 1971-74 includes  
cloth of batik

Country: IndonesiaCommodity: Sawn wood

ISIC Code	331104	331107							Note:
NSIC Code	33111	33112	33113						
SITC Code	243.2	243.3							
NSTC Code	44051	44053							
	Quantity				Value				
Source	11	4	4	4	11	4	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000CWH		100TH	TH	1000RP		1000000\$	1000\$	
1970	-		54.8	115	-		2.28	122	
1971	153.2		38.6	182	1972960		1.86	21	
1972	952.0		87.5	140	16587611		3.55	56	
1973	1144.0		240.0	334	23480564		18.20	88	
1974	-		223.2	367	-		24.50	66	
1975	539.4		284.2	771	13502554		31.50	152	
1976	705.3		468.8	645	21712855		52.50	204	
1977	1143.8		30.1	130	35688253		50.30	182	
1978	1253.3		562.9	45	48549753		85.80	27	
1979	1310.7		944.6	45	76210046		244.60	12	
1980	2220.0		838.4	69	144197778		249.80	22	
1981	-		903.2	38	-		212.30	49	
1982	-		1038.2	16	-		217.30	9	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	



Country: Indonesia

Commodity: Plywood

ISIC Code	331116								Note: a/ unit 1000m <sup>3</sup>
NSIC Code	33111	33113							
SITC Code	631.21								
NSTC Code	44151								
	Quantity				Value				
Source	11	4	4		11	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SMT		1000TM	1000TM	1000RP		1000000\$	1000RP	
1970	-		-	1.410	-		-	468	
1971	144		-	3.350	109677		-	872	
1972	109		-	5.310	109200		-	1424	
1973	1154		1.0	5.740	1504758		0.15	2158	
1974	-		-	5.990	-		-	3171	
1975	6540		0.3	3.132	6221080		0.06	1322	
1976	11020		5.6	2.900	11396565		0.90	1953	
1977	18264		6.0	1.840	17151141		2.30	1360	
1978	17376		19.7	1.860	22317780		8.70	2159	
1979	26877		84.9	0.570	48837544		31.70	529	
1980	1051 <sup>a</sup>		171.3	2.140	164052255		55.60	771	
1981	-		435.8	0.760	-		151.70	536	
1982	-		677.0	0.710	-		269.90	381	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Nitrogenous fertilizers(urea)

ISIC Code	351201								Note:
NSIC Code	35120								
SITC Code	561.1								
NSIC Code	3102								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH	1000RP		1000\$	1000\$	
1970	-		-	161016	-		-	9515	
1971	107148		-	367244	2927482		-	23369	
1972	110266		-	431798	3608099		-	29984	
1973	328399		-	315143	6956083		-	26661	
1974	-		-	815117	-		-	166548	
1975	584212		921	751739	38634152		177	278453	
1976	666787		80	35574	49134096		3	7179	
1977	1410713		321077	28283	-		34503	7004	
1978	1609000		243952	43833	89615187		28753	6466	
1979	1980000		233030	71057	126800463		36802	11271	
1980	2224229		230527	70467	-		34892	16792	
1981	-		16781	472478	-		4251	117486	
1982	-		45033	348384	-		10083	62047	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Pesticide Insecticide

ISIC Code	351216								Note:
NSIC Code	35130	35140							
SITC Code	599.2								
NSIC Code	3811								
	Quantity				Value				
Source	11	14	15	11	14	15			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Un			TM	TM	1000RP		\$	1000\$	
1970	-	-	-	-	-	-	-	-	
1971	732 <sup>b/</sup>	-	-	-	4498	-	-	-	
1972	491994 <sup>a/</sup> 11572 <sup>b/</sup>	-	-	-	466528	-	-	-	
1973	-	-	-	1371	-	-	-	996	
1974	-	-	-	893	-	-	-	1165	
1975	1486 <sup>c/</sup>	-	5500	6635	685288	-	34000	17247	
1976	-	-	-	8549	-	-	-	20272	
1977	12274 <sup>d/</sup>	-	-	2031	39890	-	-	6773	
1978	93701 <sup>d/</sup>	-	-	3131	277940	-	-	5660	
1979	-	-	6000	1920	8624772	-	138	5286	
1980	8576 <sup>e/</sup> 933 <sup>f/</sup>	-	-	4561	34243854	-	-	15963	
1981	-	-	-	-	-	-	-	-	
1982	-	-	-	-	-	-	-	-	
1983	-	-	-	-	-	-	-	-	
1984	-	-	-	-	-	-	-	-	

Unit  
a/ Litres  
b/ Box  
c/ 1000 cans  
d/ cases  
e/ Ton  
f/ 1000kl

Country: Indonesia

Commodity: Matches

ISIC Code	3529*								Note: a/ Unit- 1000 carton
NSIC Code	35232								
SITC Code	899.32								
NSTC Code	3606								
	Quantity				Value				
Source	11	4	4	11	4	4			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000BOX		TM	TM	1000RP		1000\$	1000\$	
1970	-		-	8	-		-	4	
1971	337757		-	9	746010		-	6	
1972	425712		-	5	997728		-	3	
1973	541701		-	13	1191131		-	7	
1974	-		-	2	-		-	3	
1975	495183		-	4	1886564		-	5	
1976	529184		-	2	2204831		-	1	
1977	632231		-	-	2739683		-	-	
1978	661866		-	-	3141417		-	-	
1979	654399		-	11	3881631		-	6	
1980	1649 <sup>a</sup>		109	913	6550309		188	319	
1981	-		290	2	-		439	3	
1982	-		421	-	-		784	-	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Soap

ISIC Code	352301								Note:
NSIC Code	35231	35233	31151						
SITC Code	554.1								
NSTC Code	3401								
	Quantity				Value				
Source	11	4	4	11	4	4			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	1000TM	1000RP		1000RP	1000000\$	
1970	-		76	1.68	-		4	0.48	
1971	1860		-	3.05	1166925		-	0.96	
1972	59602		-	2.02	10883000		-	0.97	
1973	63771		-	2.54	12331423		-	1.03	
1974	-		-	3.17	-		-	1.74	
1975	79914		112	3.11	22876288		18	1.81	
1976	78659		598	4.58	31488577		240	2.93	
1977	85016		257	3.22	38927580		117	4.72	
1978	88968		10	0.44	44044370		28	3.85	
1979	98743		97	0.26	48974783		71	0.46	
1980	129587		540	0.32	105347977		91	0.74	
1981	-		175	0.21	-		157	0.38	
1982	-		46	-	-		88	0.33	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Tyre and Tubes

ISIC Code	3551								Note:
NSIC Code	35510								
SITC Code	629.1								
NSIC Code	4.001								
	Quantity				Value				
Source			4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit			TM	TM	1000RP		1000\$	1000\$	
1970	-		-	3983	-		-	5614	
1971	-		-	4123	5592923		-	5416	
1972	-		-	6504	-		-	8565	
1973	-		-	15419	13407932		-	31538	
1974	-		-	81101	-		-	48297	
1975	-		7	26355	25472035		15	70113	
1976	-		1	16780	42659475		3	48726	
1977	-		10	11985	41248534		84	41246	
1978	-		3	17152	50761161		21	53425	
1979	-		2	5948	67843084		9	17142	
1980	-		4	1969	101096368		47	7398	
1981	-		-	179	-		-	1040	
1982	-		1	46	-		2	203	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Rubber

ISIC Code	3559*								Note:
NSIC Code	3552								
SITC Code	231.1								
NSIC Code	4011								
	Quantity				Value				
Source	12		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TH		TH	TH			1000\$	1000\$	
1970	792.0		784245	38			249435	4	
1971	785.7		739830	24			206502	3	
1972	803.6		778518	191			189631	107	
1973	844.4		892552	152			391657	48	
1974	822.2		846187	187			480188	98	
1975	792.7		795386	513			360996	106	
1976	857.0		815984	1152			531780	225	
1977	842.5		805718	634			589498	185	
1978	881.8		865726	1180			717732	393	
1979	946.7		865115	1210			940334	247	
1980	970.1		980695	1961			1173811	464	
1981	943.1		812556	2469			835409	969	
1982	850.9		801430	2324			606934	1155	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Indonesia

Commodity: Cement

ISIC Code	369204								Note:
NSIC Code	36310								
SITC Code	651.2								
NSIC Code	2523								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM		TM	1000TM	1000RP		1000\$	1000\$	
1970	-		-	551.5	-		-	11.3	
1971	485.0		-	898.6	5298712		-	17.0	
1972	686.5		-	1200.4	8528335		-	22.0	
1973	752.0		-	1427.0	10099296		-	31.2	
1974	-		-	1737.7	-		-	68.3	
1975	1071.0		-	1609.2	28738204		-	69.4	
1976	1839.0		-	1430.5	46912961		-	60.1	
1977	2649.0		-	589.8	66296477		-	27.6	
1978	3636.0		36700	420.2	95135725		1051	25.3	
1979	4338.0		488217	148.1	129132294		21988	17.2	
1980	5247.0		495203	327.2	187299059		21941	39.8	
1981	-		453961	366.0	-		19153	41.8	
1982	-		206734	494.9	-		8422	47.1	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	



Country: IndonesiaCommodity: Concrete iron

ISIC Code	371028								Note:
NSIC Code	37100 38112								
SITC Code	673.21								
NSIC Code	7310								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH	1000RP		1000\$	1000\$	
1970	-		-	-	-		-	-	
1971	-		-	-	-		-	-	
1972	-		-	-	-		-	-	
1973	-		-	206958	-		-	35286	
1974	-		-	209142	-		-	60308	
1975	36000		34	106400	4030922		70	32077	
1976	114658		10	76855	14047566		7	23946	
1977	140084		5	36662	15227803		8	14490	
1978	118938		4004	17776	13643897		946	7244	
1979	247000		92180	18862	41184746		24707	11395	
1980	324000		20181	43114	88077925		6705	23007	
1981	-		14711	47584	-		4056	25935	
1982	-		-	60932	-		-	29159	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: G.I. Sheet (galvanised sheet-iron)

ISIC Code	371058								Note: a/ unit 1000 sheet b/ excludes 12062000 sheet
HSIC Code	38130								
SITC Code	674.81								
NSIC Code	731355 73136								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM		TM	TM	1000RP		1000\$	1000\$	
1970	-		-	-	-		-	-	
1971	18.0		-	-	2345576		-	-	
1972	7032.0 <sup>a</sup>		-	-	3867990		-	-	
1973	55.8		-	7484	6620909		-	1570	
1974	-		-	2400	-		-	810	
1975	34.8		-	42222	7704756		-	13002	
1976	85.6		-	21399	20553390		-	8070	
1977	139.1		-	21012	35617536		-	8088	
1978	48.6		-	18519	13546987		-	8502	
1979	73.4		-	14991	28077532		-	8039	
1980	109.4 <sup>b</sup>		-	17130	60737688		-	9951	
1981	-		-	46561	-		-	24257	
1982	-		100	60084	-		3	32799	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Copper ores and concentrates

ISIC Code	37200*								Note:
NSIC Code									
SITC Code	283.11								
NSIC Code	260120								
	Quantity				Value				
Source	13		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	T'			1000\$	1000\$	
1970	-		-	-			-	-	
1971	-		-	-			-	-	
1972	9750		-	-			-	-	
1973	125870		-	-			-	-	
1974	212620		-	-			-	-	
1975	201273		-	-			-	-	
1976	223301		216828	-			86151	-	
1977	189103		182292	-			75799	-	
1978	180933		186601	-			67177	-	
1979	188769		168634	-			74536	-	
1980	186087		193509	-			125783	-	
1981	188472		-	-			-	-	
1982	223704		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Indonesia

Commodity: Tin ores and concentrates

ISIC Code	372049*								Note:
NSIC Code									
SITC Code	2836								
NSTC Code	260130								
	Quantity				Value				
Source	13		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	-		51605	-			99757	-	
1971	-		7665	-			17287	-	
1972 •	21765		10945	-			20643	-	
1973	22646		9294	-			27830	-	
1974	25709		11752	-			61546	-	
1975	25337		10056	-			47180	-	
1976	23435		1526	-			6250	-	
1977	25926		1968	-			19596	-	
1978	27411		976	-			4823	-	
1979	29535		1624	-			15526	-	
1980	32527		4857	-			66435	-	
1981	35391		197145	151			128145	59	
1982	33806		191749	-			117622	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: IndonesiaCommodity: Television Receivers

ISIC Code	383201								Note:
NSIC Code	38320								
SITC Code	724.1								
NSIC Code	851510		851519						
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NON		TM	TM	1000RP		1000\$	1000\$	
1970	-		-	1043	-		-	2673	
1971	5		-	21705	329143		-	2710	
1972	23		-	2114	1393562		-	4668	
1973	61		-	1146	4234406		-	4481	
1974	-		-	2111	-		-	7031	
1975	107		34	2016	9380066		411	10711	
1976	149		5	2622	13462335		45	17864	
1977	326		0	7565	29533244		1	28867	
1978	266		13	8678	23872449		25	38849	
1979	445		23	5411	57066718		286	30372	
1980	607		8	5061	103141491		206	30839	
1981	-		2	6444	-		44	49714	
1982	-		4	4469	-		2	42776	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: IndonesiaCommodity: Radio Receivers

ISIC Code	383204								Note:
NSIC Code	38320								
SITC Code	724.2								
NSIC Code	85153								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NON		TM	TM	1000RP		1000\$	1000\$	
1970	-		-	-	-		-	-	
1971	255		-	-	1201168		-	-	
1972	320		-	-	1798428		-	-	
1973	316		-	3732	1256194		-	17416	
1974	-		-	4725	-		-	19065	
1975	491		43	361	3841367		589	2637	
1976	409		9	756	3239590		126	6709	
1977	710		0	1227	6384833		7	10927	
1978	841		1	2109	8179028		107	14506	
1979	660		1	1276	8164744		8	9753	
1980	990		2	1222	16814324		8	8659	
1981	-		0	1362	-		1	17226	
1982	-		32	1014	-		505	14518	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Motor cycles

ISIC Code	384401								Note:
NSIC Code	38440								
SITC Code	732.91								
KSTC Code	8709								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON		TH	TH	1000RP		1000\$	1000\$	
1970	-		-	3983	-		-	5614	
1971	1550		-	4123	216400		-	5416	
1972	42566		-	6504	5541588		-	8565	
1973	101813		-	15419	20362487		-	31538	
1974	-		-	81101	-		-	48297	
1975	304096		7	26355	-		15	70113	
1976	-		1	16780	-		3	48726	
1977	305098		10	11985	81487962		84	41246	
1978	222216		3	17152	68967961		21	53425	
1979	239153		2	5948	94760245		9	17142	
1980	328370		4	1969	142239828		47	7398	
1981	-		-	179	-		-	1040	
1982	-		1	46	-		2	203	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Indonesia

Commodity: Passenger Motor Car

ISIC Code	384307	384310							Note:	
NSIC Code	38430	38440								
SITC Code	732.1									
NSIC Code	87022	87023	87024							
	Quantity				Value					
Source	11	4	4	4	11	4	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
Unit	NON		TM	TM	1000RP		1000\$	1000\$		
1970	-		-	19422	-		-	17646		
1971	-		-	14945	-		-	23656		
1972	-		-	16343	-		-	32185		
1973	-		-	24145	-		-	52924		
1974	-		-	33757	-		-	76055		
1975	64684		17	33529	239718991		81	95818		
1976	-		16	30931	-		67	88922		
1977	11684		2	20550	36893094		3	68543		
1978	40990		34	25201	156079075		123	100743		
1979	37141		5	23996	230198862		27	97750		
1980	25059		3	40394	183926931		2	166544		
1981	-		12	-	-		64	-		
1982	-		4	-	-		84	-		
1983	-		-	-	-		-	-		
1984	-		-	-	-		-	-		



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UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

CONFIDENTIAL

INTERNATIONAL COMPARISON OF INDUSTRIAL STRUCTURE  
AND  
INDUSTRIAL DEVELOPMENT IN ASIAN SELECTED COUNTRIES

VOLUME II  
STATISTICAL REPORT

KOREA, REPUBLIC OF  
MALAYSIA  
PHILIPPINES  
SINGAPORE

Project No: US/RAS/83/261

July 1986

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This report has not been cleared with the United Nations Industrial Development Organization which does not, therefore, necessarily share the views presented.

PART IX

KOREA, REPUBLIC OF

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Converter between ISIC and National  
Classification
- IV. Commodity Balance Sheets

I. Explanatory Notes on Manufacturing Statistics

KOREA, REPUBLIC OF

1. MINING AND MANUFACTURING CENSUS

Reporting Date and Reference Period: December 31 of the year, concerned

One year period of calendar year

Census Year: 1973 and 1978

Office in Charge: Economic Planning Board

Title of the Report: Report on Mining and Manufacturing Census

Coverage

1) Industries covered

The mining and manufacturing industries in Korean Standard Industrial Classification (K.S.I.C.) revised 1970 (as for 1973 Census) and revised 1975 (as for 1978 Census)

Note: Electricity, Gas and Water Survey is also conducted in the 1973 and 1978 Censuses.

2) Establishments covered

A. All the mining and manufacturing establishments within the territory; which

a. were operating with five or more workers engaged as of December 31 of the year concerned,

b. were operating with five or more workers engaged in average per work day during December, the year concerned,

c. had been operated for more than three months during the year concerned with an average of five or more workers engaged, even though they were out of operation as of December 31 of the year concerned.

B. Small establishments with less than five workers in mining and manufacturing sectors -- Sample survey

Notes:

1. Saltern operations are included even when they were operated for less than three months during the year with an average of five or more workers engaged.

2. Excluded establishments
  - a. Establishments under construction as of December 31 of the year concerned
  - b. Establishments directly operated by the armed forces of the Republic of Korea and those of allied forces
  - c. Workshops operated by public occupation guidance centers
  - d. Experimental facilities of laboratories attached to public organization and schools

Enumeration Unit: The establishment is a unit of enumeration in the survey.

Industrial Classification: Korean Standard Industrial Classification 1970 edition (as of 1973 Census) and 1975 edition (as for 1978 Census), published by Economic Planning Board

Survey Method (Establishments with five or more workers engaged)

- 1) Organization for field survey; Being Central agency, Industrial Census Division, National Bureau of Statistics (Production Statistics Division, Bureau of Statistics in 1973 Census), Economic Planning Board, established 11 districts (11 special cities and provinces) which are further divided into administrative districts.
- 2) Period and method of field survey; Field survey is made by enumerators canvassing establishments for Questionnaire (I) and its head office for Questionnaire (II) within the district from April 1 to April 30, of the next year concerned.

Outline of Sample Design (Establishments with five or less workers engaged quoted from 1978 Census)

- 1) Collection of basic information

The list of mining and manufacturing establishments having less than five workers was compiled by Dong, Eub and Myeon (the smallest administrative districts; Dong in city, Eub and Myeon in non-city; Eub-town, Myeon-township) the De Jure Population Survey as of Oct. 1, 1978. A total of 165, 869 establishments was listed in the field. The basic

information collected included name and address of establishment, name of chief executive, number of workers, major product, etc.

At the stage of determining the two-digit industrial classification code, unqualified establishments and non-mining and manufacturing establishments were struck off the list. Accordingly, the final list included a total of 80,741 establishments.

## 2) Stratification of Dongs, Eubs and Myeons

A total of 2,895 Dongs, Eubs and Myeons was stratified into 2 strata, one special stratum and 20 general strata. The special stratum was consisted of Dongs, Eubs and Myeons having relatively large number of establishments in two - digit industrial classification of manufacturing sector and having at least one minig establishment. Table A shows the number of Dongs, Eubs and Myeons by stratum.

## 3) Selection of sample Dongs, Eubs and Myeons

All Dongs, Eubs and Myeons in the special stratum were included in the sample. In the general stratum, sample Dongs, Eubs and Myeons were selected using a systematic sampling with the probability proportional to their number of establishments in the order of two-digit industrial classification code and establishment number. Table A shows the number of Dongs, Eubs and Myeons by strata.

## 4) Selection of sample establishments

In every Dong, Eub and Myeon of the special stratum, all mining establishments were included in the sample. And the sample of manufacturing establishments was systematically selected in the order of two-digit industrial code and establishment number with a different sampling interval by Dong, Eub and Myeon as the Table B.

In sample Dongs, Eubs and Myeons of the general stratum, the sample establishments were systematically selected in the order of two-digit industrial classification code and establishment number with a different sampling interval by Dong, Eub and Myeon as the Table C.

In the result, a total of 11,710 sample establishments was selected.

5) Estimation method

(1) Total estimation

Let  $x'$  be the estimate of the total for a characteristic X,

$$x' = \sum_{A=1}^L x'_A = \sum_{A=1}^L \sum_{h=1}^{m_h} \frac{I_{Ah}}{P_{Ah}} x_{Ah}$$

$$= \sum_{A=1}^L \sum_{h=1}^{m_h} \frac{I_{Ah}}{P_{Ah}} \sum_{j=1}^{n_{Ah}} x_{Ahj}$$

where,

$x'$ : estimate of total for a characteristic X

L: number of stratum

h: subscript for a strata

m: number of sample Dongs, Eubs and Myeons

j: subscript for a Dong, Eub or Myeon

P: Selection probability of Dong, Eub an Myeon

I: sampling interval of establishment

n: number of sample establishments

j: subscript for a establishment

(2) Average or mean estimation

Let  $\bar{x}'$  be the estimate of mean for a characteristic X to a characteristic Y.

$$\bar{x}' = \frac{x'}{y'} = \frac{\sum x'_A}{\sum y'_A}$$

$$\bar{x}'_A = \frac{x'_A}{y'_A}$$

where,

$y'$ : estimate of total for a characteristic Y

Table A. Number of sample Dongs, Eubs and Myeons

Stratum number	Content	Number of Dongs Eubs and Myeons	Number of sample Dongs, and Myeons
<u>Total</u>		<u>2,895</u>	<u>438</u>
1	Special stratum	207	207
2	City of Seoul	368	24
3	Busan City	166	16
4	Urban, (1) Gyeonggi Do (2)	143	14
5	Rural, (3) Gyeonggi Do	183	14
6	Urban, Gangweon Do	70	8
7	Rural, Gangweon Do	102	10
8	Urban, Chungcheongbug Do	32	7
9	Rural, Chungcheongbug Do	96	10
10	Urban, Chungcheongnam Do	53	9
11	Rural, Chungcheongnam Do	169	14
12	Urban, Jeonlabug Do	63	8
13	Rural, Jeonlanam Do	152	11
14	Urban, Jeonlabug Do	127	12
15	Rural, Jeonlabug Do	199	13
16	Urban, Gyeongsangbug Do	173	14
17	Rural, Gyeongsangbug Do	215	14
18	Urban, Gyeongsangnam Do	144	12
19	Rural, Gyeongsangnam Do	209	13
20	Urban, Jeju Do	12	4
21	Rural, Jeju Do	12	4

(1) city, (2) Province, (3) non-city

Table B. Sampling intervals in Dongs, Eub and Myeons of the special strata

Number of establishments	Sampling interval	Number of establishments	Sampling interval
6 - 119	2	360 - 419	7
12 - 179	3	420 - 479	8
18 - 239	4	480 - 559	9
24 - 299	5	560 - 999	10
30 - 359	6	1,000 - 2,700	11



Table C. Sampling intervals in sample Dongs, Eubs and Myeons of the general stratum

Number of establishments	Sampling interval	Number of establishments	Sampling interval
less than 20	1	40 - 54	4
20 - 29	2	55 - 69	5
30 - 39	3	70 - 84	6

Items Covered

- 1) Establishments with five or more workers engaged
  - A. Year of foundation
  - B. Type of ownership
  - C. Capital stock
  - D. Number of workers
  - E. Number of days operated by month
  - F. Employees' remuneration
  - G. Production costs (Both of direct & indirect production costs are referred to only 1978 Census)
    - a. Direct production costs (Cost of raw materials, Cost of fuels, Cost of electricity purchased, Cost of water purchased, Cost of contract work, Cost of repair and maintenance services)
    - b. Indirect production costs
  - H. Value of shipments
    - a. Value of products shipped
    - b. Value of wastes shipped
    - c. Receipts for processing and repair work for others
  - I. Value of inventories
  - J. Gross output

- K. Value added
- L. Power equipments (Electric motors, Prime movers, Generators, Quantity of generating)
- M. Fixed assets
  - a. Tangible fixed assets (Land, Buildings, Structures, Machinery and equipments, Vehicles, Ships and other transport equipments)
  - b. Intangible fixed assets (Referred to only 1978 Census)
- N. Others (Referred to only 1978 Census)
  - a. Number of days operated by month
  - b. Man-hour
  - c. Area of site and building (only manufacturing)
- 2) Establishments with less than five workers engaged
  - A. Number of workers
  - B. Employee's remuneration
  - C. Value of shipments
  - D. Production costs
    - a. Cost of raw materials
    - b. Cost of fuels
    - c. Cost of electricity purchased, cost of water purchased, etc.
  - E. Value added
  - F. Tangible fixed assets
  - G. Number of months operated

Definition of Terms

- I. Establishments with five or more workers engaged
  - 1. Establishment

The term establishment is defined as a physical unit engaging in industrial activities such as factory,

workshop, office and mine. This, for the most part, may be similar to an enterprise, but it differs from the latter in view of the fact that an enterprise may operate some establishments engaging in different branches of economic activities.

## 2. Year of foundation

The term "year of foundation" refers to the year wherein the establishment was founded.

i) For the cooperation and the juridical persons, it refers the status of establishment born and so registered, while for individuals it refers the time wherein the actual production of firm was initiated.

ii) If the establishment altered the activity and was classified into other branch of industry, the time altered is treated as the year of foundation.

iii) If the establishment changed the proprietor or succeeded by an heir without any change in production activity, then the time of change or succession is treated as the year of foundation.

## 3. Type of ownership

Legal type of organization of the enterprise which operates the establishments is classified into three; joint stock company set up under commercial law, other corporation which relates and includes unlimited partnership, limited company under the commercial law and juridical persons under the civil and special law, and firms owned by an individual or a household and nonlegal entity such as an association.

## 4. Capital stock

The paid up capital stock or the amount invested by private as of December 31 of the year concerned.

## 5. Number of workers

This comprises average number of employees by month during the period of operation and the number of working proprietors and unpaid family workers as of December 31 of the year concerned.

### 1) Number of employees

Number of employees at the end of the year is the number of the employed in payroll in terms of wages and salaries of operatives, administrative and related

workers, regardless whether they are permanent, temporary or casual daily workers, whether they work in factories for in their home, and whether they are persons on sickleave, on vacation, on accident or on strike excluding long-term (3 months or more) absentees and members of armed forces carried on active payrolls and the workers under contract establishments.

2) Average number of employees: See \* mark

3) Operatives

Operatives are the workers on production line directly or auxiliary to it engaging in essentially manual work, including production homeworkers. Manager and directors, even though they work in workshop, are excluded from this category.

Operatives in mining sector, for example, are those who work in field of mining, holing, supporting, lifting, ventilating, drawing, exploding, crashing, inspecting and other services closely connected with operation, keeping, auxiliary production for mine's own use and other services closely connected with operation.

4) Administrative and other workers

All workers, other than operatives, who are engaged in technical, managerial, professional, clerical and routine office workers and their helpers such as waitresses, janitors and drivers for passenger car. Salaried managers and directors of corporations are also included in this category.

5) Working proprietors and unpaid family workers: See \* mark

\* The definition of the below mentioned items is a little different by the year.

1) "Average number of employees during the month operated"

a. 1970 - 1980 Surveys or Censuses;

The average number of employees of the end of the months operated among the 4 months i.e. March, June, September and December, in the year referred.

b. 1981 Survey;

The average number of employees during the months operated.

2) "Working proprietors and unpaid family workers"

- a. 1970 - 1974 Surveys or Censuses;  
Proprietors, partners of the unincorporated firms and family members who work 24 hours or more per week, without regular remuneration.
- b. 1975 - 1977, 1979 - 1981 Surveys;  
Proprietors, partners of the unincorporated firms and family members who work more than one-third of general hour of working per week, without regular remuneration.
- c. 1978 Census;  
Proprietors, partners of the unincorporated firms and family members who work 16 hours or more per week, without regular remuneration.

6. Number of days operated by month

This represents the number of actual days operated except all closing days of the establishments by month during the reporting year.

The closing days include the days when they were not operated due to an electricity failure and repair and maintenance of machinery.

7. Employee's remuneration

The gross earning paid to all employees on the payroll of the establishment covered during the year referred. It includes every terms of compensation for employee's labour such as salaries, wages, bonuses, allowances and subsidies irrespective of payment by cash or in kind. It, however, excluded payments to the retired, long term absentees, members of armed forces and payments accrued prior to the year referred but not actually paid in the year, while the payments accrued during the year referred but not paid are included in this category.

Cash payments are in terms of gross which include taxes, compulsory savings and union dues. etc. deducted.

Value of compensation in kind is made by applying the f.o.b. plant prices if supplied its own products and by purchase price if supplied by other products than their own.

8. Production costs

The term "production costs" refers to charges actually paid or payable for materials and services consumed or put

into production during the year referred including freight charges and other direct charges incurred by the establishment in acquiring them.

1) Direct production costs

Cost of materials, fuels, purchased electricity and water, contract work, repair and maintenance were obtained under the category of direct production costs.

i) Cost of raw materials is the cost of raw materials, parts, components, containers and ancillary materials such as chemicals, wrapping materials, etc., and of those supplied to other establishments to produce goods on a contract basis. The cost of materials received from other establishments for contract work as well as the cost of intermediate products made by their own establishments for the further products are however excluded.

ii) Cost of fuels is the total amount actually paid or payable during the year referred for all fuels consumed for heat, power, or the generation of electricity.

iii) Cost of electricity purchased is the total charges actually paid or payable for electricity purchased by the establishment for production goods during the year referred. Charges for the electric light of office are also, included, yet when electricity is produced by its own generators, the cost is included in the cost of fuels "ii)" but not in this category.

iv) Cost of water purchased is the total charges actually paid and payable for water purchased by the establishment for the production during the year referred. Also included are charges of water purchased for drinking and office use.

v) Cost of contract work: If any work was done by others on materials supplied by the establishment on a contract basis, the cost for contract work is regarded the same as the amount paid for work in progress. The cost of materials supplied is, however, excluded as it is included in the cost of materials "i)".

vi) Cost of repair and maintenance services is the amount paid for maintaining the normal performance of its own tangible assets fixed for productive activities. The purchase value of materials lubricants for machines, supplies and purchased for repair and maintenance of fixed assets are included here. Excluded, however, is the cost of materials, machinery and equipments used in plant expansion or capitalized repairs which are chargeable to fixed assets accounts.

## 2) Indirect production costs

Employer's contribution for public welfare, shipping expenses and custody fee, commission fee, hire, advertisement fee, cost of research, insurance and others are classified as indirect production costs.

## 9. Value of shipments

Under the general term "Value of shipments", proceeds from shipment of products and wastes, and receipts for processing and repair work during the year referred are included.

### 1) Value of products shipped

The total amount of proceeds from shipment of products produced during the year referred. Shipment of products for samples and gifts, transference to other plants of the same enterprise and consumption for the establishment's own office use are defined as the sales while the shipment of the products produced on a contract basis with the materials supplied from other establishments, and of the products bought and resold without further processing (merchandizing) are not regarded as the shipment.

The value of products shipped is evaluated in principle at the f.o.b. plant prices including excise taxes such as liquor tax, special excise tax, and value added tax. The f.o.b. plant prices are also applied to the evaluation of the products for gratuities, transfers and self-consumptions.

### 2) Value of wastes shipped

The total amount of proceeds from the sale of scrap or refuse in the course of production while those out of the course of production are excluded.

### 3) Receipts for processing and the proceeds received

These are the proceeds received for processing or repair of products with the materials or semi-finished products supplied by other establishments on a contract basis during the year referred. When the establishment purchases the materials or second-hand goods for these purposes, their cost are excluded from this category.

## 10. Value of inventories

Value of inventories is the value of goods in the possession of the establishments as of January 1 and as of December 31 of the year referred. Therefore goods of other

establishments kept by the establishment for a contract work are excluded. In this enquiry separate inventory figures were obtained for: (i) finished goods; (ii) semi-finished goods and work-in-process; (iii) raw materials and fuels. The valuation is done on the basis of book value in principle; otherwise at approximate current market prices at the beginning and at the end of the year respectively.

#### 11. Gross output

The total value of all goods produced and services rendered to others by the establishment during the year referred. In practice the calculation of gross output was made as follows.

Value of shipments plus net addition of inventories of finished goods, semi-fished goods and work-in-process.

Gross output = Value of shipments + (Value of finished goods at the end of the year - Value of finished goods at the beginning of the year) + (Value of semi-finished goods and work-in-process at the end of the year - Value of semi-finished goods and work-in-process at the beginning of the year)

#### 12. Value added

This manufacturing activities in this report is derived of by subtracting the cost of production from the value of gross output. It should, therefore, be noted that depreciation charges, domestic consumption duties and overhead costs are included in this category.

Value added = Gross output - Direct production costs.

#### 13. Power equipments

They mean all of electric motors and prime movers in the possession of the establishment including those for reserve and under repair. Their capacities represent the total of horsepower shown on the labels or specifications put by original producters.

##### 1) Electric motors

They are the equipments which convert electric energy into mechanical energy for driving machines. Small types of electric motors attached to each machine are also included, but those attached to machines for purposes other than production such as business machines and indoor equipments are excluded.



2) Prime movers

They are the equipments which convert any form of energy other than electrical into mechanical energy for driving machines, excluding those for vehicles, ships and generators.

3) Generators

This represents the capacity of all the generating equipments owned by the establishment.

4) Quantity of generating

This is the total quantity of electricity produced by its own generators during the year referred.

14. Fixed assets

1) Tangible fixed assets

Under the term "tangible fixed assets" included are land and assets such as buildings, structures, machinery, equipments, vehicles, ships and other transport equipments durable for one year or more. Excluded, therefore, are intangible fixed assets such as good-wills, patent rights, mining rights, etc.

Total value of tangible fixed assets represents the total "book value" as of December 31 of the year referred. The values, however, are cautiously estimated on the basis of current market prices if the book value is not available.

Annual investment consists of expenditure during the year referred for acquisition, installation, expansion and capitalized repair of tangible fixed assets. The fluctuations of book value based on the revaluation and depreciation of fixed assets are ignored. When the assets purchased from other establishment, the total amount of acquisition cost includes that of installation, and when the assets, whether they are completed or not, are being constructed by the establishment itself, the expenditure actually made during the year referred are included here.

The annual disposal is the amount of tangible fixed assets actually eliminated during the year referred owing to their sale, transfer, donation, fire, robbery, etc. The valuation of such assets, on one hand, is done on the basis of the actual selling prices of the assets and, on the other hand, if the prices can not be determined, the values are equivalent to the current market prices of similar ones.

i) Land... The cost of acquisition or improvement of sites for workshops, factories, offices, dwelling houses, athletic grounds, etc.

ii) Buildings... The cost of acquisition, installation, expansion of the buildings such as workshops, office dormitories, other buildings attached and indoor equipments such as elevators, air conditioners, heaters, ventilators, etc.

iii) Structures... The cost of acquisition and improvement of the structures such as roads, rail roads, bridges, fences, chimneys, water-tanks, docks, oil pipes, water pipes, wells, gardens, etc.

iv) Machinery and equipments... The cost of a acquisition, installation, replacement and capitalized repair of machinery and equipments for use in production such as wearing machines, motors, lathes, reflectory furnaces, heating furnaces, cupolas, heat transforming equipments, etc., as well as office machines such as calculators, accounting machines, etc. Also included are tools and utensils worth 10,000 won or durable one year or more.

v) Vehicles, ships and other transport equipments... The cost for vehicles, ships and other transport equipments for land such as motor-cars, coaches, etc. and for sea use such as cargo-boat, sampans, etc.

## 2) Intangible fixed assets

Intangible fixed assets represents assets that cannot be touched or grasped.

Value of intangible fixed assets represents the "book value" as of December 31 of the year referred. Under the term "intangible fixed assets" included are good-wills, business rights, patent rights, utility model rights, design rights, trademark rights, mining rights, fishery rights, right of lease, water rights, etc.

## 15. Quantity of water used by source of streams

This represents the quantity of water used per day by source of streams such as water workers for industry and house, water of the surface of the earth, underground water, sea water, etc.

## 16. Man-hour

This represents average hours executed by a worker per day for production of goods.

## 17. Area of site and building

This represents area of site and building in use for production of goods, and planned and free are classified as area of site.

## II. Small establishments with five or less workers engaged (quoted from 1978 Census)

### 1. Number of workers

This comprises the average number of workers during the period of operation and is classified into working proprietors and unpaid family workers, and paid workers. Paid workers mean the employees who has been paid in return for their work regardless of operatives, administrative or other workers.

Unpaid workers are working proprietors and their family workers who work 16 hours or more per week without regular remuneration. Number of workers at the end of the year is the total workers at the end of year is the total workers of working proprietors, unpaid family workers and paid workers.

### 2. Employees' remuneration

The payment in the year is calculated by multiplying the average monthly wages and salaries by number of months operated. It includes every terms of compensation for employees' labour irrespective of payment by cash or in kind. It, however, excludes payments accrued prior to the year referred but not actually paid in the year, while the payments accrued during the year referred but not paid are included in this category.

### 3. Value of shipments

Under the general term "value of shipments", proceeds from shipment of products and wastes, and receipts for processing and repair work during the year are included.

It is calculated by multiplying the value of the average monthly sales by number of months operated. Value of products shipped is the total amount of proceeds from shipment of products and shipment of the products produced on a contract basis by supplying other establishments materials during the year referred irrespective of direct sales, cash sales and credit sales. Receipts for processing and repair work for others is the proceeds received for processing or repair of products with the materials or semi-finished products supplied by other establishments on a contract basis during the year referred.

#### 4. Production costs

The term "production costs" refers to direct charges actually paid or payable for materials and services consumed or put into production during the year referred including freight charges and other direct charges incurred by the establishments in acquiring them.

Considering the special quality of small establishments, this term includes only cost of raw materials, fuels and others (cost of electricity purchased, cost of water purchased, etc.) It is calculated by multiplying the average monthly production costs by number of months operated.

- a) Cost of raw materials is the cost of major raw materials, parts, components, containers and ancillary materials such as chemicals, wrapping materials, etc., and of those supplied to other establishments to produce goods on a contract basis. The cost of materials received from other establishments for contract work as well as the cost of intermediate products made by their own establishments for the further products are however excluded.
- b) Cost of fuels is the total amount actually paid or payable during the year referred for all fuels consumed for heat, power, or the generation of electricity.
- c) Others are the cost of electricity purchased, cost of water purchased, etc., actually paid or payable during the year referred.

#### 5. Value added.

Value added in this manufacturing activities is derived by subtracting the production costs from the value of shipment.  $\text{Value added} = \text{Value of shipment} - \text{production costs (cost of raw materials, fuels and others)}$

#### 6. Tangible fixed assets

Under the term "tangible fixed assets" included are land and assets such as buildings, structures, machinery, equipments, vehicles, ships and other transport equipments durable for one year or more. Therefore, intangible fixed assets such as goodwills, patent rights, mining rights, etc. are excluded. Total value at the end of the year represents the total estimates at current market prices.

Annual investment consists of expenditure during the year referred for acquisition, installation, expansion and capitalized repair of tangible fixed assets.

The annual disposals is the amount of tangible fixed assets actually reduced during the year referred owing to their sale, transfer, donation, fire, robbery, etc.

The variations of book value according to the revaluation and depreciation of fixed assets are ignored.

7. Number of months operated

A month operated means the month with 15 days or more operated

## 2. MINING AND MANUFACTURING SURVEY (Annual survey)

Reporting Date and Reference Period: December 31 of the year, concerned

One year period of calendar year

Survey Year: Intervening years of Mining and Manufacturing Censuses (1970 - 1972, 1974 - 1977, 1979 - 1981)

Office in Charge: Economic Planning Board

Title of the Report: Report on Mining and Manufacturing Survey

### Coverage

#### 1) Industries covered

The mining and manufacturing industries in Korean Standard Industrial Classification (K.S.I.C.) revised 1970 (as for 1970 - 1974 Surveys) and revised 1975 (as for 1975 - 1981 Surveys)

#### 2) Establishments covered

All the mining and manufacturing establishment within the territory; which

- a. were operating with five or more workers engaged as of December 31 of the year concerned,
- b. were operating with five or more workers engaged in average per work day during December, the year concerned,
- c. had been operated for more than three months during the year concerned with an average of five or more workers engaged, even though they were out of operation as of December 31 of the year concerned.

#### Notes:

1. Saltern operations are included even when they were operated for less than three months during the year with an average of five or more workers engaged.
2. Excluded establishments
  - a. Establishments under construction as of December 31 of the year concerned

- b. Establishments directly operated by the armed forces of the Republic of Korea or by allied armed forces
- c. Workshops operated by public occupation guidance centers
- d. Experimental facilities of laboratories attached to public organization and schools

Enumeration Unit: The establishment is a unit of enumeration in the survey.

Industrial Classification: Korean Standard Industrial Classification 1970 edition (as for 1970 - 1974 Surveys) and 1975 edition (as for 1975 - 1981 Surveys), published by Economic Planning Board

Survey Method

- 1) Organization for field survey; Being Central agency, Industrial Census Division, National Bureau of Statistics (Production Statistics Division, Bureau of Statistics from 1970 to 1973 Survey), Economic Planning Board, established 11 or so districts (special cities and provinces) which are further divided into administrative districts.
- 2) Period and method of field survey
  - A. 1970 - 1975, 1977, 1979 - 1981 Surveys; Field survey was made by enumerators canvassing establishment for Questionnaire (I) and its head office for Questionnaire (II) within the district in March or April of the next year concerned.
  - B. 1976 Survey; Field survey was made by enumerators in April, the next year concerned. The data were collected by mail or interview.
    - a. The establishments for the Current Production Survey canvassed monthly among the establishments with 200 or more workers employed were surveyed by the self-recording method,
    - b. The rest of the establishments with 200 or more workers employed by mail, and

c. The establishments with less than 200 workers employed by interview.

Note: 3 kinds of questionnaire were used in the 1976 Survey.

Questionnaire I ... for the establishments with less than 200 workers employed

Questionnaire II ... for the head office separated from the establishments

Questionnaire III ... for the establishments with 200 or more workers employed

Items Covered

- A. Type of ownership
- B. Capital stock
- C. Year of foundation
- D. Number of workers
- E. Employee's remuneration
- F. Production costs (Cost of raw materials, Cost of fuels, Cost of electricity purchased, Cost of water purchased, Cost of contract work, Cost of repair and maintenance services)
- G. Value of inventories
- H. Value of shipments (Value of products shipped, Value of wastes shipped, Receipts for processing and repair work for others)
- I. Gross output
- J. Value added
- K. Tangible fixed assets
- L. Domestic consumption duties (Referred to only 1970 Survey)

Definition of Items: Almost same as those of 1973 and 1978 Censuses (Establishments with five or more workers engaged)



### 3. INDUSTRIAL PRODUCTION SURVEY (Monthly)

Office in Charge: Economic Planning Board

Title of the Report: Annual Report on Industrial Production Survey

#### Coverage

- 1) Industrial coverage: Korean Standard Industrial Classification which based on United Nations International Standard Industrial Classification of All Economic Activities
- 2) Items covered
  - A. Index numbers of industrial production (as for mining, manufacturing and electricity of KSIC)
  - B. Index numbers of manufacturing production by special classification
  - C. Index numbers of producers' shipment
  - D. Index numbers of producers' inventory
  - E. Production of principal products
  - F. Inventory of principal products

#### Sampling and Data Collection

##### 1) Sampling

The survey method can be either a complete survey or a sample survey, and the both are used.

##### A. Complete survey

- a. 1977 - 1981 Survey: Complete enumeration was used for products of which the number of producing establishments was less than twenty.
- b. 1971 - 1976 Survey: Complete survey was used for commodities which can be measured completely.

## B. Sample survey

Sample survey was used for the other items except the captioned a. and b. and cut-off sampling method (and stratified sampling method for 1971 Survey) was used.

e.g. In the mining and manufacturing sectors, a complete enumeration was used for 297 of the 420 items covered in the 1980 Survey.

### 2) Data collection

A field survey was carried out at the beginning of each month to confirm returns for the previous month, and the data provided by firms is collected at the end of each month by trained resident enumerators.

4. SMALL SCALE MANUFACTURING SURVEY (Monthly)

Office in Charge: Small and Medium Industry Bank

Title of the Report: Monthly Economic Review

Items Covered

- 1) Production index number of small scale manufacturing output by industrial division (5 - 300 employees)
- 2) Index number of small manufacturer's selling prices by industrial division
- 3) Number of employees in small scale manufacturing establishments by industrial division (5 - 300 employees)

## II. General Industrial Statistics

### 1. Explanatory Notes

### 2. Statistical Tables

#### 2.1 Number of Establishments

#### 2.2 Employment (Average Number of persons engaged )

#### 2.3 Employment (Average Number of Employees )

#### 2.4 Gross Output

#### 2.5 Wages and Salaries

#### 2.6 Value added

#### 2.7 Gross Fixed Capital Formation

#### 2.8 Index Number of Industrial Production (1975=100)

## Explanatory Notes

### I. Classification:

The classification of industrial activity set out in the tables follows the three-digit code of the present version of ISIC. The data used NA (national source) according to K.S.I.C. (Korean Standard Industrial Classification) are converted to ISIC based on the Convertors.

### II. Sources of Data:

The statistical data presented in the following tables derived from three kinds of data sources; UN, UNIDO and NA. The abbreviation of data sources are as follows.

UN-----UN, Yearbook of Industrial Statistics, Vol. I, General Industrial Statistics.

UNIDO--UNIDO, General Industrial Data Base.

NAL----1) Economic Planning Board, Report on Mining and Manufacturing Survey.  
2) Economic Planning Board, Report on Mining and Manufacturing Census.

### III. Reference Period:

The reference period is the calendar year from 1 January to 31 December.

### IV. Concepts and Definitions:

For description of concepts and definitions used in the data sources cited above, please refer to Explanatory Notes on Manufacturing Statistics.

### V. General Footnote:

In general, NAl figures are the same as UN figures; thus they are not repeated. Otherwise NAl figures are explicitly shown in the tables.

VI. Special Notes on Each Data Source:

1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

- 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

## COUNTRY: KOREA, REPUBLIC OF

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970 a/	1971 a/	1972 a/	1973 a/	1974 a/	1975 a/	1976 a/	1977 a/	1978 a/	1979 a/	1980 a/	1981 a/	1982	1983
311/2	Food products UN UNIDO NA1 NA2	3351	3348	3392	3187	2849	2683	2912	2897	3204	3329	3331	3475		
313	Beverages	1796	1640	1518	1475	1302	1182	1157	1211	1225	1287	1264	1124		
314	Tobacco	8	23	27	29	25	29	32	23	19	22	22	22		
321	Textiles	2923	2698	2887	2911	2941	3199	3046	4176	4403	4513	4384	4920		
322	Wearing apparel	3050	3169	2970	3031	2907	2742	3002	2777	2930	2799	2650	2811		
323	Leather and products	95	88	101	128	127	150	271	349	405	356	361	428		
324	Footwear	325	334	252	270	227	192	199	192	252	272	287	308		
331	Wood products	1109	1107	1211	1189	1116	1244	1344	1282	1470	1534	1460	1543		

## COUNTRY:KOREA, REPUBLIC OF

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	899	910	900	815	710	553	505	880	918	820	740	751		
341	Paper and products	554	557	518	508	513	712	735	800	900	983	1013	1092		
342	Printing, publishing	1184	1175	1243	1244	1240	1132	1005	1208	1093	1440	1287	1495		
351	Industrial chemicals	247	220	283	307	332	427	500	640	838	710	730	728		
352	Other chemical products	424	394	445	453	428	470	405	507	611	580	614	659		
353	Petroleum refineries	17	25	27	30	23	26	33	43	37	44	38	45		
354	Petroleum, coal products	695	602	510	420	410	402	347	318	295	290	278	282		
355	Rubber products	172	140	207	210	212	200	202	284	333	380	353	388		



COUNTRY: KOREA, REPUBLIC OF

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	168	146	227	203	381	448	573	591	623	994	1021	1151		
361	Pottery, china etc.	378	332	359	310	305	290	207	300	322	290	279	298		
362	Glass and products	80	85	93	106	97	108	113	124	162	174	154	177		
369	Non-metal products n.e.c.	1820	1804	1587	1520	1400	1291	1385	1321	1830	2212	1971	2151		
371	Iron and steel	259	233	257	274	293	355	373	438	525	557	513	568		
372	Non-ferrous metals	85	88	105	102	112	108	190	229	310	298	359	393		
381	Metal products	1362	1332	1409	1394	1300	1360	1389	1584	2025	2251	2160	2364		
382	Machinery n.e.c.	1040	941	986	989	1074	1272	1341	1395	1603	1748	1732	1910		

## COUNTRY: KOREA, REPUBLIC OF

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	496	451	549	558	732	767	950	1164	1389	1559	1558	1757		
384	Transport equipment	682	686	804	695	728	552	670	758	807	941	891	1009		
385	Professional goods	891 110	890 105	112	124	135	195	219	250	299	339	321	393		
390	Other industries	575	556	692	643	620	626	835	981	1028	1052	1054	1210		

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

## 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY: KOREA, REPUBLIC OF

Employment (Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970 a/b/	1971 a/b/	1972 a/b/	1973 a/b/	1974 a/b/	1975 a/b/	1976 a/b/	1977 a/b/	1978 a/b/	1979 a/b/	1980 a/b/	1981 a/b/	1982	1983
311/2	Food products UN UNIDO NA1 NA2	76.2	72.6	97.3	97.0	108.9	107.2	111.0	128.2	135.1	143.1	138.9	131.2		
313	Beverages	30.2	27.9	26.9	26.9	28.8	27.3	24.0	20.0	27.7	29.8	29.3	27.9		
314	Tobacco	11.0	14.3	12.7	18.0	18.1	15.9	18.7	15.0	14.0	12.0	13.2	13.4		
321	Textiles	207.2	202.7	226.0	280.6	286.7	321.0	302.1	402.0	424.0	404.0	302.8	392.6		
322	Wearing apparel	52.4	63.1	79.3	93.3	121.0	152.1	204.4	208.3	210.8	191.8	180.3	212.1		
323	Leather and products	3.4	3.0	3.9	9.1	12.2	19.0	28.1	20.9	31.3	24.2	20.6	22.7		
324	Footwear	4.5	5.9	7.8	8.4	6.8	11.2	14.5	20.0	26.2	22.3	22.7	26.3		
331	Wood products	36.2	32.9	35.1	43.4	41.2	42.1	51.7	50.2	61.4	58.9	46.2	45.0		

COUNTRY: KOREA, REPUBLIC OF

Employment (Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	9.0	8.7	10.0	8.2	9.1	10.0	10.4	14.2	18.2	17.3	19.6	16.9		
341	Paper and products	19.1	20.4	24.4	26.2	26.8	30.0	34.1	42.2	44.5	46.0	47.7	45.6		
342	Printing, publishing	30.3	31.1	32.6	31.2	34.5	38.7	37.6	42.3	42.1	45.7	42.8	45.3		
351	Industrial chemicals	23.4	25.7	19.7	27.8	32.5	34.2	42.3	41.0	48.7	41.1	42.5	38.9		
352	Other chemical products	26.2	23.5	20.1	31.0	35.0	41.0	47.1	46.8	53.0	49.7	55.4	49.7		
353	Petroleum refineries	3.2	3.4	4.2	4.5	4.3	4.1	4.7	3.9	3.7	3.0	4.8	5.8		
354	Petroleum, coal products	12.5	11.0	11.4	10.6	13.2	13.2	11.1	11.2	11.5	12.0	11.9	11.4		
355	Rubber products	27.3	31.8	30.5	47.8	50.1	64.7	88.4	98.3	101.3	96.0	104.4	100.6		

COUNTRY:KOREA, REPUBLIC OF

Employment(Average Number of Persons Engaged)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	9.0	9.0	14.4	16.5	19.4	24.5	30.0	36.5	32.1	53.2	40.2	55.3		
361	Pottery, china etc.	7.0	5.9	6.8	6.3	6.8	7.3	8.0	12.8	14.0	15.4	10.6	18.0		
362	Glass and products	8.8	8.4	7.3	9.4	10.5	11.0	13.8	14.0	18.2	19.7	18.8	18.3		
369	Non-metal products n.e.c.	34.6	34.1	31.2	36.3	43.7	41.2	43.0	50.3	62.2	66.4	59.1	58.1		
371	Iron and steel	26.6	20.4	21.2	29.9	35.0	37.1	45.4	58.3	67.8	73.0	68.9	67.1		
372	Non-ferrous metals	4.9	5.5	6.4	7.2	10.7	10.5	8.7	12.7	15.5	16.4	21.0	20.7		
381	Metal products	35.2	38.2	38.2	43.8	53.7	52.4	60.0	80.2	96.2	98.8	89.1	92.5		
382	Machinery n.e.c.	26.5	21.0	25.0	35.0	37.4	47.7	62.7	72.0	87.4	98.5	81.2	83.8		

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	39.4	42.2	62.3	95.5	121.9	128.6	182.2	188.8	232.2	249.4	216.8	213.0		
384	Transport equipment	36.9	31.9	39.3	43.1	55.6	51.7	70.2	95.6	115.1	120.1	115.8	128.2		
385	Professional goods	5.6	5.2	7.0	9.6	11.3	16.9	23.3	32.0	37.6	29.5	31.6	28.4		
390	Other industries	48.2	42.6	59.5	59.1	52.7	57.3	75.9	81.1	78.6	74.6	70.5	78.5		

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

- 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY: KOREA, REPUBLIC OF

Employment (Average Number of Employees)

Unit: THOUSANDS

CODE	INDUSTRY	1970 a/b/	1971 a/b/	1972 a/b/	1973 a/b/	1974 a/b/	1975 a/b/	1976 a/b/	1977 a/b/	1978 a/b/	1979 a/b/	1980 a/b/	1981 a/b/	1982	1983		
311/2	Food products	UN	71.5	67.4	92.7	91.3	105.2	103.7	108.2	124.0	131.0	130.2	103.5	126.8			
		UNIDO	71	67	93	91	105	104	108	125	131	130	103				
		NA1															
		NA2															
313	Beverages	28.3	26.1	25.3	25.4	27.4	25.7	23.4	24.5	20.0	28.2	16.2	26.4				
		28	26	25	25	27	26	23	24	20	28	16					
314	Tobacco	11.0	14.3	12.7	17.5	18.1	15.9	18.7	15.0	14.0	12.0	11.5	13.4				
		11	14	13	17	18	16	19	15	15	13	11					
321	Textiles	203.9	199.0	223.4	276.3	283.8	318.7	358.5	398.4	420.4	400.1	343.2	387.6				
		204	200	223	276	284	319	358	398	420	400	343					
322	Wearing apparel	48.7	58.9	75.8	89.9	118.5	148.7	200.0	205.3	207.6	188.8	166.1	209.1				
		49	59	76	90	118	149	201	205	208	189	166					
323	Leather and products	3.3	2.9	3.7	9.0	12.0	19.5	27.0	26.0	30.0	23.8	16.8	22.3				
		3	3	4	9	12	19	28	27	31	24	17					
324	Footwear	4.1	5.5	7.5	7.9	6.0	11.0	14.2	19.8	26.0	22.0	19.2	26				
		4	5	7	8	7	11	14	20	26	22	19					
331	Wood products	34.9	31.6	33.7	42.1	40.0	40.7	50.1	54.8	59.7	57.2	36.7	44.3				
		35	32	34	42	40	41	50	55	60	57	37					

## COUNTRY: KOREA, REPUBLIC OF

## Employment (Average Number of Employees)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	8.0 8	7.0 8	8.0 9	7.7 8	8.3 8	9.3 9	9.0 10	13.1 13	17.1 17	16.3 16	16.0 16	16.1		
341	Paper and products	18.4 18	19.7 20	25.8 26	25.0 26	26.3 26	30.3 30	33.5 33	41.5 41	43.7 44	40.1 40	37.7 38	44.6		
342	Printing, publishing	28.9 29	29.8 30	31.3 31	30.0 30	33.3 33	37.0 38	36.4 36	41.1 41	41.0 41	44.2 44	28.1 28	43.9		
351	Industrial chemicals	23.2 23	25.4 25	19.4 19	27.2 27	32.3 32	33.9 34	42.0 42	41.2 41	48.1 48	40.6 41	30.0 30	38.4		
352	Other chemical products	25.8 26	23.1 23	25.7 26	31.0 32	34.7 35	41.0 42	40.7 41	40.4 40	52.6 53	49.4 49	33.8 34	49.3		
353	Petroleum refineries	3.2 3	3.4 3	4.2 4	4.5 4	4.3 4	4.1 4	4.7 5	3.9 4	3.7 4	3.0 4	3.0 3	5.8		
354	Petroleum, coal products	11.8 12	10.3 10	10.9 11	10.3 10	12.7 13	12.7 13	10.8 11	11.0 11	11.3 11	12.3 12	7.4 7	11.0		
355	Rubber products	27.1 27	31.6 32	36.2 36	47.1 47	58.0 58	64.5 64	88.2 88	98.0 98	101.0 101	96.3 96	95.7 95	100.2		



## COUNTRY: KOREA, REPUBLIC OF

## Employment (Average Number of Employees)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	8.8 9	8.8 9	14.2 14	10.2 10	10.0 10	24.1 24	20.5 20	35.0 30	31.4 31	52.3 52	37.0 38	54.2		
361	Pottery, china etc.	6.5 6	5.5 5	6.3 6	5.7 6	6.4 6	6.9 7	8.0 9	12.5 12	13.0 14	15.1 15	14.7 15	17.7		
362	Glass and products	8.7 9	8.3 8	7.2 7	9.3 9	10.4 10	11.0 12	13.7 14	14.5 14	18.1 18	19.5 19	15.4 15	18.1		
369	Non-metal products n.e.c.	32.5 32	32.0 32	29.4 29	33.0 34	42.1 42	30.8 40	42.0 42	49.0 49	60.2 60	64.1 64	45.9 46	53.8		
371	Iron and steel	26.4 26	20.1 20	21.0 21	29.7 30	35.4 35	36.8 37	45.1 45	58.0 58	67.4 67	73.2 73	56.0 56	55.7		
372	Non-ferrous metals	4.8 5	5.4 5	6.2 6	7.2 7	10.0 11	10.4 10	8.5 8	12.5 12	15.3 15	16.2 16	16.2 16	20.4		
381	Metal products	33.7 34	30.0 37	36.5 36	42.5 42	52.3 52	51.0 51	59.2 59	78.7 79	94.2 94	96.7 97	70.9 71	90.3		
382	Machinery n.e.c.	25.4 25	19.9 20	24.5 24	34.0 35	36.3 36	46.5 46	61.3 61	70.7 71	85.8 86	96.9 97	62.4 62	82.1		

COUNTRY:KOREA, REPUBLIC OF

## Employment(Average Number of Employees)

Unit: THOUSANDS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	38.9	41.7	61.8	94.6	121.5	128.1	181.8	188.1	231.2	248.4	174.4	211.8		
		39	42	62	95	121	128	182	188	231	248	174			
384	Transport equipment	36.2	31.1	38.4	42.4	55.0	51.2	69.5	95.0	114.4	119.3	87.0	125.3		
		36	31	38	42	55	51	69	95	114	119	87			
385	Professional goods	5.5	5.1	6.9	9.6	11.2	16.8	23.1	31.8	37.4	29.3	26.5	28.1		
		5	5	7	10	11	17	23	32	37	29	26			
390	Other industries	47.6	42.0	58.8	58.3	52.1	56.7	75.1	80.2	77.5	73.6	60.6	77.3		
		48	42	59	58	52	57	75	80	77	74	61			

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

## 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

## COUNTRY:KOREA, REPUBLIC OF

## Gross Output (In Producers' Prices)

Unit: BILLION WON

CODE	INDUSTRY	1970 a/	1971 a/	1972 a/	1973 a/	1974 a/	1975 a/	1976 a/	1977 a/	1978 a/	1979 a/	1980 a/	1981 a/	1982	1983	
311/2	Food products	UN	145.5	193.3	280	405	594	804	1041	1429	1774	2226	3135	3948		
		UNIDO NA1 NA2	145.5	193.3	280	405	594	804	1041	1429	1774	2226	3135			
313	Beverages		79.7	93.7	122	148	252	311	358	504	729	694	801	993		
			79.7	93.7	122	148	252	311	358	504	729	694	801			
314	Tobacco		69.4	78.1	108	146	137	329	450	499	654	799	1043	1224		
			69.4	78.1	108	146	137	329	450	499	654	799	1043			
321	Textiles		197.5	261.8	378	665	806	1303	1813	2154	2795	3314	4555	5601		
			197.5	261.8	378	665	806	1303	1813							
322	Wearing apparel		48.3	62.4	94	140	251	385	668	806	1029	1140	1458	1974		
			48.3	62.4	94	140	251	385	668	806	1029	1140	1458			
323	Leather and products		2.8	4.0	6	29	54	107	158	183	281	272	302	447		
			2.8	4.0	6	29	54	107	158	183	281	272	302			
324	Footwear		3.6	5.6	11	12	14	28	39	101	130	142	180	249		
			3.6	5.6	11	12	14	28	39	101	130	142	180			
331	Wood products		67.8	92.2	102	211	186	253	343	449	593	738	713	812		
			67.8	92.2	102	211	186	253	343	449	593	738	713			

COUNTRY:KOREA, REPUBLIC OF

Gross Output (In Producers' Prices)

Unit: BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	4.3	4.7	7	8	13	17	26	41	88	126	171	158		
		4.3	4.7	7	8	13	17	26	41	88	126	171			
341	Paper and products	37.9	50.7	66	105	163	199	260	380	484	640	937	1211		
		37.9	50.7	66	105	163	199	260	380	484	640	937			
342	Printing, publishing	28.0	37.4	44	54	81	115	139	198	264	364	465	595		
		28.0	37.4	44	54	81	115	139	198	264	364	465			
351	Industrial chemicals	68.8	89.3	90	143	280	502	652	750	979	1323	2430	3022		
		68.8	89.3	90	143	280	502	652	750	979	1323	2430			
352	Other chemical products	53.8	62.8	81	119	180	298	406	535	776	959	1251	1444		
		53.8	62.8	81	119	180	298	406	535	776	959	1251			
353	Petroleum refineries	84.5	129.6	154	228	569	909	1126	1329	1575	2000	4143	5542		
		84.5	129.6	154	228	569	909	1126	1329	1575	2000	4143			
354	Petroleum, coal products	32.6	40.2	49	71	85	111	125	174	252	375	501	666		
		32.6	40.2	49	71	85	111	125	174	252	375	501			
355	Rubber products	29.5	43.6	54	97	161	203	338	421	567	730	1048	1107		
		29.5	43.6	54	97	161	203	338	421	567	730	1048			

COUNTRY:KOREA. REPUBLIC OF

Gross Output (In Producers' Prices)

Unit: BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	14.4	15.5	34	49	60	82	135	217	293	622	695	861		
		14.4	15.5	34	49	60	82	135	217	293	622	695			
361	Pottery, china etc.	2.4	2.2	3	6	6	9	16	27	39	63	86	114		
		2.4	2.2	3	6	6	9	16	27	39	63	86			
362	Glass and products	9.5	10.9	12	21	30	53	65	89	136	176	241	286		
		9.5	10.9	12	20	30	53	65	89	136	176	241			
369	Non-metal products n.e.c.	55.7	66.0	76	108	188	264	343	505	643	962	1275	1380		
		55.7	66.0	76	108	188	264	343	505	643	962	1275			
371	Iron and steel	66.9	81.4	117	280	467	430	742	1021	1402	2000	2833	3800		
		66.9	81.4	117	280	467	430	742	1021	1402	2000	2833			
372	Non-ferrous metals	11.1	16.5	21	33	49	85	96	166	246	346	554	704		
		11.1	16.5	21	33	49	85	96	166	246	346	554			
381	Metal products	32.5	34.2	45	80	148	170	235	383	675	843	965	1430		
		32.5	34.2	45	80	148	170	235	383	675	843	965			
382	Machinery n.e.c.	21.5	22.9	33	74	109	163	288	391	710	1026	913	1234		
		21.5	22.9	33	74	109	163	288	391	710	1026	913			

## COUNTRY: KOREA, REPUBLIC OF

## Gross Output (In Producers' Prices)

Unit: BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	55.1	61.9	115	239	423	502	977	1171	1898	2415	2720	3732		
		55.1	61.9	115	239	423	502	977	1171	1898	2415	2720			
384	Transport equipment	73.3	72.6	85	144	291	369	564	1106	1636	1775	2048	3057		
		73.3	72.6	85	144	291	369	564	1106	1636	1775	2048			
385	Professional goods	5.1	5.1	10	15	23	52	95	165	201	246	315	364		
		5.1	5.1	10	15	23	52	95	165	201	246	315			
390	Other industries	32.1	31.3	43	67	84	112	185	244	308	378	501	761		
		32.1	31.3	43	67	84	112	185	244	308	378	501			

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

## 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY:KOREA, REPUBLIC OF

## Wages and Salaries

Unit: BILLION WON

CODE	INDUSTRY	1970 <sub>a/</sub>	1971 <sub>a/</sub>	1972 <sub>a/</sub>	1973 <sub>a/</sub>	1974 <sub>a/</sub>	1975 <sub>a/</sub>	1976 <sub>a/</sub>	1977 <sub>a/</sub>	1978 <sub>a/</sub>	1979 <sub>a/</sub>	1980 <sub>a/</sub>	1981 <sub>a/</sub>	1982	1983
311/2	Food products UN UNIDO NA1 NA2	10.6	12.4	17.2	23.5	31.0	43.0	61.5	90.9	134.0	190.4	232.5	252.0		
313	Beverages	4.5	5.7	8.3	8.9	12.8	16.1	19.0	25.1	37.3	53.3	64.5	71.5		
314	Tobacco	3.1	3.4	3.9	5.8	6.5	6.6	11.0	16.1	19.3	23.8	32.1	34.2		
321	Textiles	26.8	31.8	42.2	67.3	88.0	130.7	188.0	263.0	370.4	473.3	571.1	661.0		
322	Wearing apparel	5.9	7.7	11.0	17.3	29.0	46.4	84.8	112.9	155.8	181.8	219.5	298.6		
323	Leather and products	0.4	0.5	0.6	2.3	3.9	7.5	13.4	16.1	20.9	27.4	28.4	38.3		
324	Footwear	0.7	0.9	1.4	1.9	2.1	4.4	6.9	12.5	22.0	25.3	30.9	39.7		
331	Wood products	5.9	6.5	7.4	12.0	13.9	17.3	28.4	42.1	63.9	78.7	74.0	82.2		

COUNTRY:KOREA, REPUBLIC OF

Wages and Salaries

Unit: BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	0.9	1.0	1.4	1.5	2.1	3.1	4.2	8.7	16.2	22.8	31.3	30.0		
341	Paper and products	3.6	4.5	6.8	8.0	11.5	15.0	21.0	33.8	49.0	71.0	88.4	98.5		
342	Printing, publishing	6.0	8.9	10.0	11.3	16.8	24.0	30.3	41.8	60.4	88.5	100.0	134.2		
351	Industrial chemicals	5.8	8.4	8.0	11.0	18.1	20.0	41.4	51.1	73.7	83.7	113.8	123.7		
352	Other chemical products	5.8	5.9	8.7	11.5	17.1	28.5	41.4	49.7	78.9	93.0	123.5	132.8		
353	Petroleum refineries	1.9	2.4	3.7	4.8	5.1	6.5	8.3	9.1	11.4	12.2	19.3	33.1		
354	Petroleum, coal products	2.0	2.3	3.1	3.3	5.1	5.9	7.3	10.1	14.9	21.0	27.5	30.1		
355	Rubber products	4.1	5.3	7.1	10.9	18.3	27.2	46.2	66.4	91.7	115.0	155.0	171.7		



COUNTRY: KOREA, REPUBLIC OF

## Wages and Salaries

Unit: BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	1.6	1.9	2.9	3.8	5.8	8.8	15.1	24.0	30.2	70.3	74.1	97.8		
361	Pottery, china etc.	0.7	0.7	0.9	0.9	1.4	2.2	4.0	7.4	11.2	18.7	22.0	27.9		
362	Glass and products	1.7	2.0	2.0	2.8	4.1	6.3	9.4	13.9	22.1	31.0	38.7	46.3		
369	Non-metal products n.e.c.	6.4	7.0	7.0	10.2	15.8	24.2	29.3	42.5	72.0	104.1	115.7	124.7		
371	Iron and steel	5.6	6.0	6.7	12.0	21.2	24.0	41.0	67.3	106.2	140.0	168.1	190.4		
372	Non-ferrous metals	1.0	1.3	1.8	2.3	2.8	6.0	6.1	12.0	19.0	27.0	44.4	54.1		
381	Metal products	5.2	5.7	7.4	10.5	17.5	23.3	32.5	57.1	101.0	141.5	155.0	195.0		
382	Machinery n.e.c.	3.9	4.0	5.0	9.8	13.8	24.7	42.3	63.0	112.4	166.7	167.5	191.0		

COUNTRY: KOREA, REPUBLIC OF

Wages and Salaries

Unit: BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	6.6	8.6	15.2	24.9	42.5	54.5	102.5	133.9	234.6	309.7	350.0	420.8		
384	Transport equipment	9.0	8.7	11.1	16.4	28.4	40.6	66.0	119.7	191.7	226.4	277.8	373.8		
		10.0	9.7												
385	Professional goods	0.9	0.9	1.4	2.4	3.4	6.7	12.5	20.5	33.5	36.2	45.7	50.0		
390	Other industries	5.9	6.0	8.3	12.1	13.3	20.3	34.1	43.7	60.3	78.2	94.3	130.1		

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

## 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

COUNTRY:KOREA, REPUBLIC OF

Value Added (In Producers' Prices)

Unit:BILLION WON

CODE	INDUSTRY	1970 <sub>a/</sub>	1971 <sub>a/</sub>	1972 <sub>a/</sub>	1973 <sub>a/</sub>	1974 <sub>a/</sub>	1975 <sub>a/</sub>	1976 <sub>a/</sub>	1977 <sub>a/</sub>	1978 <sub>a/</sub>	1979 <sub>a/</sub>	1980 <sub>a/</sub>	1981 <sub>a/</sub>	1982	1983	
311/2	Food products	UN	47.0	60.6	85.1	85.5	107.3	196.9	287.7	448.6	598.3	650.3	927	1083		
		UNIDO	47.0	60.6	85.1	85.5	107.3	196.9	287.7	448.6	598.3	650.3	927			
313	Beverages	NA1	44.4	54.6	69.7	81.7	144.1	167.2	195.3	293.0	448.0	307.9	347	474		
		NA2	44.4	54.6	69.7	81.7	144.1	167.2	195.3	293.0	448.0	307.9	347			
314	Tobacco		49.7	55.0	70.1	83.3	58.0	234.9	276.2	327.2	428.6	564.5	694	876		
			49.7	55.0	70.1	83.3	58.0	234.9	276.2	327.2	428.6	564.5	694			
321	Textiles		76.0	94.5	148.3	237.8	283.4	456.2	656.3	758.3	1129.0	1267.9	1609	2021		
			76.0	94.5	148.3	237.8	283.4	456.2	656.3	758.3	1129.0	1267.9	1609			
322	Wearing apparel		15.1	22.9	32.9	48.7	79.3	117.6	202.3	259.4	370.5	402.5	550	792		
			15.1	22.9	32.9	48.7	79.3	117.6	202.3	259.4	370.5	402.5	550			
323	Leather and products		1.1	1.4	1.9	9.6	17.6	40.1	42.7	46.2	91.8	77.5	84	148		
			1.1	1.4	1.9	9.6	17.6	40.1	42.7	46.2	91.8	77.5	84			
323	Footwear		1.6	2.1	2.5	4.5	5.7	9.7	17.1	31.4	49.5	58.7	68	91		
			1.6	2.1	2.5	4.5	5.7	9.7	17.1	31.4	49.5	58.7	68	91		
331	Wood products		17.5	29.3	35.3	60.6	33.6	67.0	89.2	118.2	182.1	165.3	145	162		
			17.5	29.3	35.3	60.6	33.6	67.0	89.2	118.2	182.1	165.3	145			

COUNTRY:KOREA, REPUBLIC OF

Value Added (In Producers' Prices)

Unit:BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	2.0	2.3	3.2	2.9	5.1	7.1	12.4	20.1	45.6	52.4	61	69		
		2.0	2.3	3.2	2.9	5.1	7.1	12.4	20.1	45.6	52.4	61			
341	Paper and products	12.7	16.6	22.7	38.5	46.6	55.4	79.2	124.4	177.2	192.0	259	332		
		12.7	16.6	22.7	38.5	46.6	55.4	79.2	124.4	177.2	192.0	259			
342	Printing, publishing	15.1	22.3	22.4	22.3	38.4	55.3	69.3	108.1	153.1	207.3	267	309		
		15.1	22.3	22.4	22.3	38.4	55.3	69.3	108.1	153.1	207.3	267			
351	Industrial chemicals	32.7	40.6	40.9	63.3	107.2	160.5	206.4	253.9	373.0	391.9	606	767		
		32.7	40.6	40.9	63.3	107.2	160.5	206.4	253.9	373.0	391.9	606			
352	Other chemical products	26.4	32.2	39.5	53.6	79.6	130.8	197.5	273.6	401.7	442.4	617	681		
		26.4	32.2	39.5	53.6	79.6	130.8	197.5	273.6	401.7	442.4	617			
353	Petroleum refineries	38.9	56.4	58.3	82.7	100.9	201.7	245.7	233.9	278.2	161.8	460	765		
		38.9	56.4	58.3	82.7	100.9	201.7	245.7	233.9	278.2	161.8	460			
354	Petroleum, coal products	7.2	12.3	14.6	26.0	20.8	28.1	27.7	37.8	49.8	91.2	128	162		
		7.2	12.3	14.6	26.0	20.8	28.1	27.7	37.8	49.8	91.2	128			
355	Rubber products	10.7	14.8	19.0	29.4	48.1	69.4	123.3	156.0	224.8	308.5	399	417		
		10.7	14.8	19.0	29.4	48.1	69.4	123.3	156.0	224.8	308.5	399			

## COUNTRY:KOREA, REPUBLIC OF

## Value Added (In Producers' Prices)

Unit:BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	5.1	6.0	15.8	20.3	20.2	25.7	41.8	71.5	108.6	210.7	218	288		
		5.1	6.0	15.8	20.3	20.2	25.7	41.8	71.5	108.6	210.7	218			
361	Pottery, china etc.	1.3	1.3	2.0	3.0	3.2	4.5	7.8	17.0	27.1	40.4	54	70		
		1.3	1.3	2.0	3.0	3.2	4.5	7.8	17.0	27.1	40.4	54			
362	Glass and products	5.6	6.0	6.7	9.2	16.1	26.7	35.3	51.3	77.8	94.4	120	129		
		5.6	6.0	6.7	9.2	16.1	26.7	35.3	51.3	77.8	94.4	120			
369	Non-metal products n.e.c.	25.8	34.1	38.5	58.5	81.7	125.8	151.1	223.4	302.7	395.8	509	568		
		25.8	34.1	38.5	58.5	81.7	125.8	151.1	223.4	302.7	395.8	509			
371	Iron and steel	19.2	20.2	29.9	92.7	150.4	111.8	193.3	275.1	462.5	639.2	763	1107		
		19.2	20.2	29.9	92.7	150.4	111.8	193.3	275.1	462.5	639.2	763			
372	Non-ferrous metals	2.8	4.8	5.3	11.6	19.6	22.5	26.4	50.9	81.1	92.1	161	189		
		2.8	4.8	5.3	11.6	19.6	22.5	26.4	50.9	81.1	92.1	161			
381	Metal products	12.9	15.0	17.4	31.1	58.9	66.3	90.1	152.7	297.9	347.0	386	559		
		12.9	15.0	17.4	31.1	58.9	66.3	90.1	152.7	297.9	347.0	386			
382	Machinery n.e.c.	9.7	9.6	13.6	31.6	41.8	62.0	110.9	164.7	319.2	413.8	408	517		
		9.7	9.6	13.6	31.6	41.8	62.0	110.9	164.7	319.2	413.8	408			

COUNTRY:KOREA, REPUBLIC OF

Value Added (In Producers' Prices)

Unit:BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	21.8	27.6	45.1	91.7	161.4	199.1	360.4	478.8	725.7	819.2	964	1319		
		21.8	27.6	45.1	91.7	161.4	199.1	360.4	478.8	725.7	819.2	964			
384	Transport equipment	27.7	27.9	34.6	60.4	92.7	111.7	210.8	460.8	557.4	551.3	700	1070		
		27.7	27.9	34.6	60.4	92.7	111.7	210.8	460.8	557.4	551.3	700			
		29.6	29.8												
385	Professional goods	2.1	2.0	4.3	8.4	9.2	21.0	37.0	55.4	84.8	93.6	130	135		
		2.1	2.0	4.3	8.4	9.2	21.0	37.0	55.4	84.8	93.6	130			
390	Other industries	15.8	16.2	19.7	30.7	36.3	53.1	81.9	105.2	146.7	168.6	223	314		
		15.8	16.2	19.7	30.7	36.3	53.1	81.9	105.2	146.7	168.6	223			

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

## 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.









COUNTRY:KOREA, REPUBLIC OF

## Gross Fixed Capital Formation

Unit: BILLION WON

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	3.8	4.2	8.7	22.0	40.2	164.4	90.7	96.1	149.2	222.4	238.7	263.6		
		3.8	4.2	8.7	22.0	40.2	164.4	90.7	96.1	149.2	222.4	238.7			
		4.5	5.6												
384	Transport equipment	4.0	11.4	10.4	42.2	61.7	55.2	113.9	109.1	193.1	247.6	372.6	415.2		
		4.0	11.4	10.4	42.2	61.7	55.2	113.9	109.1	193.1	247.6	372.6			
		4.4	12.5												
385	Professional goods	0.3	0.4	0.4	0.9	1.7	3.8	17.2	9.1	11.4	23.0	24.9	19.1		
		0.3	0.4	0.4	0.9	1.7	3.8	17.2	9.1	11.4	23.0	24.9			
390	Other industries	3.4	1.8	3.6	4.2	3.6	4.7	13.0	15.8	24.1	26.9	17.7	32.8		
		3.4	1.8	3.6	4.2	3.6	4.7	13.0	15.8	24.1	26.9	17.7			
		3.5	2.0												

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

- 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

## COUNTRY: KOREA, REPUBLIC OF

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN	55	66	83	93	92	100	132	169	204	250	239	254	284
		UNIDO	55	66	83	93	92	100	132	169	204	250	239	252	---
		NA1	54.9	66.4	82.9	93.2	92.0	100.0	131.9	169.1	203.8	249.9	238.8	251.6	---
		NA2													
313	Beverages	56	68	66	80	89	100	113	146	189	222	211	218	219	
		56	68	67	80	89	100	113	147	189	221	211	215	---	
		56.0	68.4	66.6	79.8	89.3	100.0	112.9	146.1	188.9	222.1	211.1	214.8	---	
314	Tobacco	60	73	80	80	93	100	106	118	135	142	155	160	161	
		60	73	80	80	94	100	107	119	135	142	155	160	---	
		60.1	72.9	79.8	79.7	93.4	100.0	106.1	118.1	135.0	141.7	155.3	160.4	---	
321	Textiles	38	46	61	76	78	100	131	142	162	181	200	223	228	
		38		61	76	78	100	131	142	162	181	200	223	---	
		37.8	45.1	60.8	76.2	78.4	100.0	131.0	141.6	162.0	181.2	200.0	223.4	---	
322	Wearing apparel	15	22	32	60	78	100	142	158	196	190	193	243	236	
		15	22	32	59	78	100	142	158	196	190	193	263	---	
		15.3	21.7	32.2	59.5	78.1	100.0	141.9	157.8	196.1	189.7	193.2	263.4	---	
323	Leather and products	2	4	8	19	45	100	139	176	202	167	164	228	233	
		2	5	8	19	45	100	139	176	202	167	165	200	---	
		2.2	4.5	8.5	19.1	44.8	100.0	139.3	175.1	202.3	167.1	164.5	200.0	---	
324	Footwear	d/---	33	31	37	61	100	139	201	297	201	187	208	205	
		23	33	31	37	61	100	139	201	297	201	187	131	---	
		23.1	32.6	31.1	37.4	60.6	100.0	139.2	201.4	296.8	201.0	187.1	130.8	---	
331	Wood products	64	74	84	102	90	100	132	149	173	161	112	122	115	
		63	73	84	102	89	100	131	149	173	161	113	110	---	
		63.7	73.9	84.3	102.2	89.5	100.0	132.1	149.4	173.1	160.8	112.5	110.4	---	

## COUNTRY:KOREA, REPUBLIC OF

## Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	89	78	80	64	72	100	111	153	231	265	241	288	378	
		89	78	79	63	72	100	111	153	231	265	241	356		
		89.5	78.2	79.5	63.8	72.1	100.0	110.8	153.1	230.7	265.4	240.8	356.1		
341	Paper and products	41	53	61	80	98	100	121	152	178	198	218	241	255	
		41	53	60	80	97	100	121	152	178	199	218	231		
		41.1	53.4	60.6	79.9	96.4	100.0	121.2	152.1	177.8	199.5	217.6	231.1		
342	Printing, publishing	77	82	86	89	97	100	117	130	152	173	191	202	198	
		77	81	87	89	97	100	117	131	152	173	191	199		
		77.3	81.5	86.3	88.6	96.8	100.0	116.6	130.3	152.3	173.4	191.1	198.5		
351	Industrial chemicals	51	52	55	68	77	100	124	148	180	201	207	214	210	
		51	52	55	68	77	100	124	147	180	201	207	214		
		50.7	51.7	55.4	68.1	76.7	100.0	124.4	146.5	179.6	200.8	207.0	213.5		
352	Other chemical products	48	54	58	74	88	100	134	172	220	261	241	255	295	
		48	54	58	74	88	100	134	172	220	261	241	244		
		47.9	54.2	57.7	73.8	88.3	100.0	134.5	172.2	220.2	260.9	240.6	244.2		
353	Petroleum refineries	66	75	78	91	90	100	112	130	143	154	152	151	151	
		66	75	78	91	91	100	113	130	143	154	153	147		
		65.8	74.6	77.9	91.2	90.5	100.0	112.4	130.2	142.9	154.4	152.5	146.9		
354	Petroleum, coal products	54	62	68	92	98	100	124	149	154	211	228	274	288	
		54	62	68	91	97	100	124	149	154	211	228	301		
		54.1	61.9	68.4	91.5	97.6	100.0	123.9	149.2	154.0	210.6	227.8	301.2		
355	Rubber products	42	52	59	92	99	100	124	149	154	211	228	274	288	
		42	52	59	84	99	100	140	170	206	244	273	244		
		42.0	51.7	59.4	83.9	98.7	100.0	140.4	169.5	206.0	244.0	273.1	243.8		

## COUNTRY:KOREA, REPUBLIC OF

## Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	56	71	78	79	70	100	133	225	320	294	230	211	213	
		56	71	78	79	70	100	133	225	320	294	230	213	—	
		56.3	70.9	78.4	78.9	70.4	100.0	133.1	225.3	319.9	293.7	229.6	212.8		
361	Pottery, china etc.	133	115	73	107	94	100	120	182	206	269	366	438	422	
		133	116	73	108	93	100	120	183	206	269	366	442	—	
		132.7	115.2	72.7	106.9	93.5	100.0	119.7	181.9	205.8	269.2	365.9	442.3		
362	Glass and products	64	93	85	99	106	100	115	144	179	199	184	192	187	
		65	93	85	99	105	100	115	145	179	199	184	210	—	
		64.5	93.0	84.7	98.8	105.5	100.0	114.8	144.4	178.7	199.0	183.7	210.2		
369	Non-metal products n.e.c.	55	62	64	90	99	100	116	146	166	181	178	174	192	
		55	62	64	90	99	100	115	145	166	181	179	170	—	
		54.7	62.0	63.9	89.5	99.0	100.0	115.5	145.5	165.9	180.7	178.5	170.3		
371	Iron and steel	24	26	31	49	91	100	141	171	228	296	320	423	453	
		24	26	31	49	94	100	141	171	219	288	311	383	—	
		23.9	25.9	31.2	48.9	93.6	100.0	141.2	170.8	219.4	288.3	310.8	382.8		
372	Non-ferrous metals	39	46	53	62	71	100	143	179	266	328	355	534	621	
		39	46	53	62	71	100	143	180	266	326	355	581	—	
		39.0	45.7	52.6	61.5	70.6	100.0	143.2	179.4	266.4	325.9	354.7	581.4		
381	Metal products	24	26	23	38	55	100	152	208	275	275	275	337	376	
		24	26	23	38	55	100	152	208	275	275	275	311	—	
		24.0	25.9	23.2	38.0	55.3	100.0	151.9	207.9	274.8	274.6	275.0	310.7		
382	Machinery n.e.c.	34	43	53	82	83	100	157	166	254	254	191	237	259	
		34	43	53	83	84	100	157	167	254	254	191	219	—	
		34.2	42.7	52.8	82.5	83.3	100.0	157.0	166.4	253.9	254.4	190.6	218.6		

COUNTRY:KOREA, REPUBLIC OF

## Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	14	18	23	48	92	100	173	219	304	360	307	372	378	
		14	18	23	48	92	100	173	219	304	360	307	349	---	
		14.1	17.8	23.4	47.9	91.9	100.0	173.2	219.1	304.2	360.3	307.3	349.2		
384	Transport equipment	18	18	17	33	81	100	108	150	223	257	201	300	352	
		18	18	17	33	81	100	108	150	223	257	201	263	---	
		17.5	18.1	17.3	32.9	81.3	100.0	107.6	149.5	222.8	257.1	201.3	263.3		
385	Professional goods	27	25	28	55	85	100	182	213	274	292	299	300	274	
		27	25	28	55	85	100	182	213	274	292	299	298	---	
		26.7	24.9	27.9	55.3	84.7	100.0	182.4	213.3	274.1	291.9	298.7	297.7		
390	Other industries	52	46	59	70	82	100	124	151	128	124	129	134	136	
		52	46	60	70	82	100	124	151	128	124	129	109	---	
		52.3	45.8	59.4	70.1	82.2	100.0	124.1	151.2	128.3	124.1	129.3	108.7		

Special Notes on Each Data Source:

## 1) UN

- a. Establishments with 5 or more persons engaged.
- b. Manufacturing: including homeworkers.
- c. The value of sales is not deducted.
- d. Major group 324 is included in 322.

## 2) Letter a to d put on a year indicates a general footnote applicable to all commodity classifications for the year concerned.

III. Convertors between ISIC and National Industrial Classification

<u>ISIC</u>	<u>KSIC</u>	<u>KSIC Sector</u>
31	31	MANUFACTURE OF FOOD, BEVERAGES AND TOBACCO
311A	311A	FOOD MANUFACTURING
3111	3111	SLAUGHTERING, PREPARING AND PRESERVING MEAT
3112	3112	MANUFACTURE OF DAIRY PRODUCTS
3113	3113	CANNING AND PRESERVING OF FRUITS AND VEGETABLES
3114	3114	CANNING, PRESERVING AND PROCESSING OF FISH AND SIMILAR FOODS
3115	3115	MANUFACTURE OF VEGETABLE AND ANIMAL OILS AND FATS
3116	3116	GRAIN MILL PRODUCTS
3117	3117	MANUFACTURE OF BAKERY PRODUCTS
3118	3118	SUGAR FACTORIES AND REFINERIES
3119	3119	MANUFACTURE OF COCOA, CHOCOLATE AND SUGAR CONFECTIONERY
3121	3121	MANUFACTURE OF FOOD PRODUCTS NOT ELSEWHERE CLASSIFIED
3122	3122	MANUFACTURE OF PREPARED ANIMAL FEEDS
313	313	BEVERAGE INDUSTRIES
3131	3131	DISTILLING, RECTIFYING AND BLENDING SPIRITS
3132	3132	WINE INDUSTRIES
3132	3132	FRUIT WINE INDUSTRIES
3133	3133	MALT LIQUORS AND MALT
3133	3133	MALT LIQUOR
3134	3134	SOFT DRINKS AND CARBONATED WATERS INDUSTRIES
314	314	TOBACCO MANUFACTURES
3140	3140	TOBACCO MANUFACTURES
32	32	TEXTILE, WEARING APPAREL AND LEATHER INDUSTRIES
321	321	MANUFACTURE OF TEXTILES
3211	-	SPINNING, WEAVING AND FINISHING TEXTILES
3211	3211	SPINNING TEXTILES & SILK REELING
3211	3216	WEAVING TEXTILES
3211	3217	BLEACHING, DYEING AND FINISHING TEXTILES
3212	3212	MANUFACTURE OF MADE-UP TEXTILES GOODS EXCEPT WEARING APPAREL
3213	3213	KNETTING MILLS
3214	3214	MANUFACTURE OF CARPETS AND RUGS
3215	3215	CORDAGE, ROPE AND TWINE INDUSTRIES
3219	3219	MANUFACTURE OF TEXTILE NOT ELSEWHERE CLASSIFIED
322	322	MANUFACTURE OF WEARING APPAREL, EXCEPT FOOTWEAR
3220	3220	MANUFACTURE OF WEARING APPAREL, EXCEPT FOOTWEAR
323	323	MNF. OF LEATHER & PRODUCTS OF LEATHER, LEATHER SUBSTITUTE & FUR
3231	3231	TANNERIES AND LEATHER FINISHING
3232	3232	FUR DRESSING
3233	3233	MNF. OF PRODUCTS OF LEATHER & LEATHER SUBSTITUTES
324	324	MNF. OF FOOTWEAR, EX. VULCANIZED OR MOULDED RUBBER OR PLASTIC
3240	3240	MNF. OF FOOTWEAR, EX. VULCANIZED OR MOULDED RUBBER OR PLASTIC
33	33	MNF. OF WOOD & WOOD PRODUCTS, INCLUDING FURNITURE
331	331	MANUFACTURE OF WOOD & WOOD & CORK PRODUCTS, EXCEPT FURNITURE
3311	3311	SAWMILLS, PLANING AND OTHER WOOD MILLS
3312	3312	MANUFACTURE OF WOODEN & CANE CONTAINERS & SMALL CANE WARE
3319	3319	MANUFACTURE OF WOOD & CORK PRODUCTS NOT ELSEWHERE CLASSIFIED
332	332	MNF. OF FURNITURE & FIXTURES, EXCEPT PRIMARILY OF METAL
3320	3320	MNF. OF FURNITURE AND FIXTURES, EXCEPT PRIMARILY OF METAL



<u>ISIC</u>	<u>KSIC</u>	<u>KSIC Sector</u>
34	34	MNF. OF PAPER & PAPER PRODUCTS; PRINTING AND PUBLISHING
341	341	MANUFACTURE OF PAPER AND PAPER PRODUCTS
3411	3411	MANUFACTURE OF PULP, PAPER AND PAPERBOARD
3412	3412	MANUFACTURE OF CONTAINERS & BOXES OF PAPER & PAPERBOARD
3419	3419	MANUFACTURE OF PULP, PAPER AND PAPERBOARD ARTICLES N.E.C.
342	342	PRINTING, PUBLISHING AND ALLIED INDUSTRIES
3420	-	PRINTING, PUBLISHING AND ALLIED INDUSTRIES
3420	3421	PRINTING AND PUBLISHING
3420	3422	PRINTING ALLIED INDUSTRIES
35	35	MNF. OF CHEMICALS & PETROLEUM, COAL, RUBBER & ELASTIC PRODUCTS
351	351	MANUFACTURE OF INDUSTRIAL CHEMICALS
3511	3511	MANUFACTURE OF BASIC INDUSTRIAL CHEMICALS EXCEPT FERTILIZERS
3512	3512	MANUFACTURE OF FERTILIZERS AND PESTICIDES
3513	3513	MNF. OF SYNTHETIC RESINS, PLASTIC MATERIALS & MAN-MADE FIBRES
352	352	MANUFACTURE OF OTHER CHEMICAL PRODUCTS
3521	3521	MANUFACTURE OF PAINTS, VARNISHES AND LACQUERS
3522	3522	MANUFACTURE OF DRUGS AND MEDICINES
3523	3523	MNF. OF SOAP & CLEANING PREP., PERFUMES, & COSMETICS
3529	3529	MANUFACTURE OF CHEMICAL PRODUCTS NOT ELSEWHERE CLASSIFIED
353	353	PETROLEUM REFINERIES
3530	3530	PETROLEUM REFINERIES
354	354	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL
3540	3540	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL
355	355	MANUFACTURE OF RUBBER PRODUCTS
3551	3551	TYRE AND TUBE INDUSTRIES
3559	3559	MANUFACTURE OF RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED
356	356	MANUFACTURE OF PLASTIC PRODUCTS NOT ELSEWHERE CLASSIFIED
3560	3560	MANUFACTURE OF PLASTIC PRODUCTS NOT ELSEWHERE CLASSIFIED
36	36	MNF. OF NON-METALIC MINERAL PRODUCTS, EXCEPT PETROLEUM & COAL
361	361	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE
3610	3610	MANUFACTURE OF POTTERY, CHINA AND EARTHENWARE
362	362	MANUFACTURE OF GLASS AND GLASS PRODUCTS
3620	3620	MANUFACTURE OF GLASS AND GLASS PRODUCTS
369	369	MANUFACTURE OF OTHER NON-METALIC MINERAL PRODUCTS
3691	3691	MANUFACTURE OF STRUCTURAL CLAY PRODUCTS
3692	3692	MANUFACTURE OF CEMENT, LIME AND PLASTER
3699	3699	MANUFACTURE OF NON-METALIC MINERAL PRODUCTS N.E.C.
37	37	BASIC METAL INDUSTRIES
371	371	IRON AND STEEL BASIC INDUSTRIES
3710	3710	IRON AND STEEL BASIC INDUSTRIES
372	372	NON-FERROUS METAL BASIC INDUSTRIES
3720	3720	NON-FERROUS METAL BASIC INDUSTRIES
38	38	MNF. OF FABRICATED METAL PRODUCTS, MACHINERY & EQUIPMENT
381	381	MNF. OF FABRICATED METAL PRODUCTS, EX. MACHINERY & EQUIPMENT
3811	3811	MANUFACTURE OF CUTLERY, HAND TOOLS & GENERAL HARDWARE
3812	3812	MANUFACTURE OF FURNITURE & FIXTURES PRIMARILY OF METAL
3813	3813	MANUFACTURE OF STRUCTURAL METAL PRODUCTS
3819	3819	MNF. OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY & EQUIPMENT
382	382	MANUFACTURE OF MACHINERY EXCEPT ELECTRICAL
3821	3821	MANUFACTURE OF ENGINES AND TURBINES
3822	3822	MANUFACTURE OF AGRICULTURAL MACHINERY AND EQUIPMENT
3823	3823	MANUFACTURE OF METAL AND WOOD WORKING MACHINERY
3824	3824	MNF. OF SPECIAL MACHINERY & EQUIPMENT
3825	3825	MANUFACTURE OF OFFICE, COMPUTING & ACCOUNTING MACHINERY
3829	3829	MACHINERY & EQUIPMENT EXCEPT ELECTRICAL N.E.C.

<u>ISIC</u>	<u>KSIC</u>	<u>KSIC Sector</u>
383	383	MNF. OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES & SUPPLIES
3831	3831	MNF. OF ELECTRICAL MACHINERY & APPARATUS
3832	3832	MNF. OF RADIO, TELEVISION & COMMUNICATION EQUIPMENT & APPARATUS
3833	3833	MANUFACTURE OF ELECTRICAL APPLIANCES & HOUSEWARES
3839	3839	MNF. OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES & SUPPLIES N
384	384	MANUFACTURE OF TRANSPORT EQUIPMENT
3841	3841	SHIP BUILDING AND REPAIRING
3842	3842	MANUFACTURE OF RAILROAD EQUIPMENT
3845	3843	MANUFACTURE OF MOTOR VEHICLES
3844	3844	MANUFACTURE OF MOTORCYCLES AND BICYCLES
3845	-	MANUFACTURE OF AIRCRAFT
3849	3849	MANUFACTURE OF TRANSPORT EQUIPMENT NOT ELSEWHERE CLASSIFIED
385	385	MNF. OF PROFESSIONAL & SCIENTIFIC, & MEASURING EQUIPMENT, NEC
3851	3851	MNF. OF PROFESSIONAL & SCIENTIFIC, & MEASURING EQUIPMENT, NEC
3852	3852	MANUFACTURE OF PHOTOGRAPHIC AND OPTICAL GOODS
3853	3853	MANUFACTURE OF WATCHES AND CLOCKS
39	39	OTHER MANUFACTURING INDUSTRIES
390	390	OTHER MANUFACTURING INDUSTRIES
3901	3901	MANUFACTURE OF JEWELLERY AND RELATED ARTICLES
3902	3902	MANUFACTURE OF MUSICAL INSTRUMENTS
3903	3903	MANUFACTURE OF SPORTING AND ATHLETIC GOODS
3909	3909	MANUFACTURING INDUSTRIES NOT ELSEWHERE CLASSIFIED

\* There is a little difference in the 4-digit code of K.S.I.C. of 1970-1974 from 1975 onwards as follows:

1970 - 1974

<u>ISIC</u>	<u>KSIC</u>	<u>KSIC Sector</u>
	3135	OTHER FERMENTED LIQUOR
	3136	PRODUCTION OF BREWERS YEAST
	3138	OTHER BEVERAGE INDUSTRIES
3211	3216	SPINNING TEXTILE
3211	3217	WEAVING TEXTILE
3211	3218	BLEACHING, DYEING & FINISHING TEXTILES
3134	3137	SOFT DRINKS AND CARBONATED WATERS INDUSTRIES

1975 onwards: Please refer to the above cited ISIC-KSIC Converter.

#### IV. Commodity Balance Sheets

##### 1. Explanatory Notes

##### 2. Statistical Tables

- 2. 1 Refined Sugar
- 2. 2 Coffee Extracts, Essences, and Concentrates
- 2. 3 Roasted Coffee
- 2. 4 Prepared Animal Feeds
- 2. 5 Beer
- 2. 6 Cigarettes
- 2. 7 Cotton Yarn, Pure and Mixed
- 2. 8 Cotton Woven Fabrics
- 2. 9 Fabrics Woven of Synthetic Fibres  
& Regenerated Fibres
- 2.10 Outer-Garments - for Men & Boys
- 2.11 Plywood
- 2.12 Newsprint
- 2.13 Kraft Paper and Kraft Paperboard
- 2.14 Ammonia
- 2.15 Fertilizer, Mixed or Compound
- 2.16 Naphthas
- 2.17 Motor Gasoline
- 2.18 Distillate Fuel Oils
- 2.19 Residential Fuel Oils
- 2.20 Diesel C Oil
- 2.21 Hard-Coal Briquettes
- 2.22 Rubber Tires and Tubes
- 2.23 Cement
- 2.24 Pig Iron, Steel Making
- 2.25 Crude Steel, Ingot
- 2.26 Wire Rods
- 2.27 Plates (Heavy and Medium)
- 2.28 Sheets, Cold-Rolled and Hot-Rolled
- 2.29 Bars and Rods
- 2.30 Tube and Pipe of Iron or Steel
- 2.31 Sewing Machines
- 2.32 Refrigerators for Household Use
- 2.33 Washing Machines for Household Use
- 2.34 Television (Broadcast) Receivers
- 2.35 Radio Receivers
- 2.36 Wire and Cable, Insulated
- 2.37 Passenger Cars
- 2.38 Lorries (Trucks)
- 2.39 Bicycles

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).

QUANTITY UNIT CODE

Appendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE METRES
LN	LITRES	HE.	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOURES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL *	CYLINDER
BDM	MARRELS/CAL. DAY	KWN	KILOWATTS	BAG *	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL *	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS *	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX *	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN *	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT *	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS				
FLN	FLASKS	SMM	SQUARE METRES		
FTN	FEET	SMN	SQUARE METRES		
GIN	IMERIAL GALLONS	SPM	NUMBER OF SPINDLES		
GPN	PROOF GALLONS				
GRN	GROSS	STN	SHORT TONS		

Note: The codes put on "\*" are prepared by IDE.

CURRENCY UNIT CODE

Appendix II

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHILIPPINES
S\$	SD	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Sources

Source No.

1. UN, Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics.
2. UN, Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics.
3. ESCAP, Statistical Yearbook.
4. AIDXT (International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base.
7. UNIDO, Production Index Data Base.
8. UN, Yearbook of International Trade Statistics
9. UN, Statistical Yearbook.
10. ---
11. Economic Planning Board, Annual Report on Current Industrial Production Survey.
12. Economic Planning Board, Report on Mining and Manufacturing Survey.
13. Office of Customs Administration, Statistical Yearbook of Foreign Trade.
14. Economic Planning Board, Report on Mining and Manufacturing Census 1973.
15. Economic Planning Board, Report on Mining and Manufacturing Census 1978.

Country: Korea, Republic of

Commodity: Refined Sugar

ISIC Code	311804								Note:
NSIC Code	3118102 (1970-1974)		31182100 (1975- )						
SITC Code	0612 b/								a/ Data source: 11, 12, 14 & 15
NSTC Code									b/ SITC 0612 = ISIC 311804
	Quantity				Value				
Source	11,12,etc.	11,12,etc.	4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000WH		1000\$	1000\$	
1970	192071	188434	4710	379	18567724		589	36	
1971	222302	218091	3500	63	22687650		504	14	
1972	207323	208190	5728	20	27778176		1183	7	
1973	303520	302804	35586	2293	37147983		8201	422	
1974	311892	278350	34352	81	99074422		20300	51	
1975	292935	345563	119968	25	116187236		83705	25	
1976	297736	294866	75294	-	108353955		28327	-	
1977	336743	340901	63576	1	94198000		17863	1	
1978	505203	498928	89618	1	114796000		21993	1	
1979	625448	646412	112113	0	-		30423	1	
1980	756821	737329	303698	-	-		212755	-	
1981	717567	723718	353559	-	330748000		230737	-	
1982	642311	631102	-	-	309064000		-	-	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	



Country: Korea, Republic ofCommodity: Coffee Extracts, Essences, and Concentrates

ISIC Code	312101								Note: a/ SITC 0713 = ISIC 312101
NSIC Code	31217113 (1975-1979)				31217113, 31217114 (1980- )				
SITC Code	0713 a/								
NSIC Code									
	Quantity				Value				
Source	2	12	4	4	12	Shipment	4	4	
Unit	Production TM	Shipment TM	Export TM	Import TM	Production 1000WN		Export 1000\$	Import 1000\$	
1970	-	-	-	112	-		-	604	
1971	-	-	-	119	-		-	708	
1972	-	-	2	209	-		24	1146	
1973	-	-	1	140	-		7	763	
1974	-	-	1	36	-		14	204	
1975	1464	1452	-	18	18650		136	111	
1976	1325	1316	-	28	7986456		-	156	
1977	1231	1232	44	112	-		86	117	
1978	2007	1968	22	19	7458000		28	177	
1979	2759	2759	8	50	-		10	259	
1980	4021	3930	16	19	-		29	150	
1981	4766	4714	51	23	32862000		52	141	
1982	5651	5230	-	-	36493000		-	-	
1983	6874	6805	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Korea, Republic ofCommodity: Roasted Coffee

ISIC Code	3121								Note:  a/ SITC 0711: Including "Coffee, Green"
NSIC Code	31217111, 31217112 (1975- )								
SITC Code	0711 a/								
NSTC Code									
	Quantity				Value				
Source	12,15	12,15	4	4	12,15		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000KGH	1000KGH	TM	TM	1000WN		1000\$	1000\$	
1970	-	-	16	394	-		6	486	
1971	-	-	0	1048	-		5	1100	
1972	-	-	-	2015	-		-	1921	
1973	-	-	-	2330	-		-	2765	
1974	-	-	8	1902	-		4	2868	
1975	1392	1387	-	2568	4177101		-	3940	
1976	-	-	0	2323	-		2	5871	
1977	1460	1461	1	2413	9666628		0	11355	
1978	1802	1773	4	3641	7980000		180	13582	
1979	-	4050	62	5757	-		237	19527	
1980	-	3163	-	6619	-		-	25208	
1981	1292	1289	109	9085	5257000		172	22517	
1982	1065	1100	-	-	6495000		-	-	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Korea, Republic of

Commodity: Prepared Animal Feeds

ISIC Code	312201								Note: a/ SITC 08199 = ISIC 312201
NSIC Code	3122001, 3122099 (1970-1974)				31220111-31220114, 31220200 (1975- )				
SITC Code	08199 a/								
NSTC Code									
	Quantity				Value				
Source	12,14,15	12,14,15	4	4	12,14,15		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000KGM	1000KGM	TM	TM	1000WN		1000\$	1000\$	
1970	380676	381175	75	212463	12653459		17	17394	
1971	373776	372081	40	309246	19902781		13	28032	
1972	504081	502772	27	16764	29699546		15	2004	
1973	843796	896898	30	5470	48438768		14	1263	
1974	855996	857838	13	2651	57877110		9	1584	
1975	914767	912380	20	1613	79476912		16	1439	
1976	1845965	1825591	127	1251	120199029		174	967	
1977	3269168	3284599	218	1529	190318047		199	1107	
1978	4536083	4090796	98	2746	300560000		248	2557	
1979	-	3951420	112	4659	-		223	4025	
1980	-	3497019	54	2170	-		187	2961	
1981	4865281	4859904	41	741	601.64000		62	2633	
1982	4556388	4562394	-	-	786295000		-	-	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Korea, Republic ofCommodity: Beer

ISIC Code	313304								Note: a/ No commodity code of "Beer" in <u>Report on Mining &amp; Manufacturing Survey</u> since 1975.  b/ SITC 1123 = ISIC 313304
NSIC Code	3133001 (1970-1974) a/								
SITC Code	1123 b/								
NSIC Code									
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000HLH		TH	TH			1000\$	1000\$	
1970	933		2563	36			709	13	
1971	1178		2347	68			1107	15	
1972	976		3925	30			1209	6	
1973	1282		303	98			124	26	
1974	1609		91	3			12	2	
1975	1773		105	28			30	6	
1976	1897		51	34			12	13	
1977	2430		32	126			11	57	
1978	4443		107	290			46	325	
1979	6406		16	312			6	156	
1980	5790		75	258			21	163	
1981	5992		3902	544			2212	241	
1982	6268		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Korea, Republic of

Commodity: Cigarettes

ISIC Code	314007								Note: a/ SITC 1222 = ISIC 314007
NSIC Code	3140001, 3140002 (1970-1974)				31402111, 31402112 (1975- )				
SITC Code	1222 a/								
NSTC Code									
	Quantity				Value				
Source	12,14,15	12,14,15	4	4	12,14,15		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOM	1000NOM	TM	TM	1000000WN		1000\$	1000\$	
1970	37757235	37863006	25	236	67452		9	49	
1971	40229688	40239973	33	164	76461		15	43	
1972	54022605	52497250	26	97	106062		18	22	
1973	48476600	47107152	73	77	67672		37	16	
1974	52501782	52662415	149	63	79236		67	12	
1975	52947571	53057865	227	42	262439		56	8	
1976	58755791	57969650	81	39	344417		14	6	
1977	58762469	58231000	38	89	420740		7	19	
1978	63001172	63369593	639	145	553391		95	17	
1979	64389000	64862997	2950	337	-		390	34	
1980	70351000	67122253	3451	79	-		468	10	
1981	51307241	51329665	5383	279	1065788		629	18	
1982	70838962	72791539	-	-	1228556		-	-	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Korea, Republic of

Commodity: Cotton Woven Fabrics

ISIC Code	321128							
NSIC Code	3217101, etc. <sup>a/</sup> (1970-1974)				32161114, etc. <sup>a/</sup> (1975- )			
SITC Code	6521		6522					
NSTC Code								
	Quantity				Value			
Source	11		4	4			4	4
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	1000SMH		TM	TM			1000\$	1000\$
1970	192634		22247	1280			26356	3466
1971	233782		24771	1594			31004	4516
1972	201189		23689	2555			34849	8138
1973	264400		28803	3747			56489	15988
1974	261446		21124	4250			54861	20810
1975	254779		21763	3685			50496	17519
1976	294770		8728	5516			39237	30462
1977	287740		25585	6597			95132	38262
1978	273391		26975	5714			104783	41071
1979	317160		30504	6733			127331	51427
1980	369950		35244	5437			149029	45524
1981	402929		33272	5181			143263	42597
1982	480440		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Note:

a/ Including all the commodity codes of "Cotton Woven Fabrics"

Country: Korea, Republic of

Commodity: Fabrics Woven of Synthetic Fibres &amp; Regenerated Fibres

ISIC Code		3211*								Note:  a/ Including all the commodity codes of Fabrics Woven of 1) Synthetic Fibres, 2) Regenerated Fibres, 3) Man-Made Fibres.  b/ Data Source: 11, 12, 14 & 15
NSIC Code		3217601-3217604 (1970-1974)		32163311, etc. a/(1975- )						
SITC Code		6535 6536								
NSTC Code										
Source		Quantity		Value						
	11,12,etc. b/	12,14,15	4	4	12,14,15	4	4			
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
	1000SMH	1000SMH	TM	TM	1000000WN		1000\$	1000\$		
1970	206236	201777	3816	14083	23896		12443	45113		
1971	419102	414918	5749	19180	27967		16428	62933		
1972	273959	269248	16412	12849	40965		41241	47722		
1973	654858	640830	34749	20849	79356		112444	114475		
1974	543934	536487	24840	16933	137492		112617	106058		
1975	725793	714177	41110	17803	192658		142403	113901		
1976	904580	894125	51700	20374	278024		225098	125900		
1977	1109276	1105087	60566	18451	363020		282692	124311		
1978	1221521	1225880	94303	15892	502401		528488	130762		
1979	1233803	1178893	96322	15440	-		627005	157421		
1980	1457234	1676719	126773	13943	-		807341	148961		
1981	1992038	1955866	154341	16368	1198976		1048691	165140		
1982	1259391	1214390	-	-	969704		-	-		
1983	-	-	-	-	-		-	-		
1984	-	-	-	-	-		-	-		

Country: Korea, Republic ofCommodity: Outer Garments - for Men & Boys

ISIC Code	3220*								Note:  a/ Including all the commodity codes of "Outer Garments for Men & Boys"  b/ Data source: 11, 12, 14 & 15
NSIC Code	3220101, etc. a/(1970-1974)				32201111, etc. a/(1975- )				
SITC Code	84111								
NSTC Code									
	Quantity				Value				
Source	11,12,etc. b/	12,14,15	4	4	12,14,15		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOH	1000NOH	TM	TM	1000WN		1000\$	1000\$	
1970	6207	6125	3948	6	16677311		22632	21	
1971	15941	15702	7683	3	22760403		43211	10	
1972	10480	10406	9924	36	28571126		62522	216	
1973	17899	17885	27854	124	59493874		158445	959	
1974	22626	225.2	19824	83	91323675		188706	867	
1975	43217	42224	27242	118	119323830		220263	1256	
1976	65726	65164	44840	117	258281062		425144	1331	
1977	105550	97448	48196	804	298315550		457669	1757	
1978	78419	77812	57333	94	313395000		570885	1170	
1979	-	77010	54853	28	-		668249	509	
1980	-	59985	53077	60	-		668180	257	
1981	78678	78430	72626	216	602933000		925540	1568	
1982	71525	70791	-	-	598003000		-	-	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	



Country: Korea, Republic of

Commodity: Plywood

ISIC Code		331116			33113211 (1975- )		Note:	
NSIC Code		3311201 (1970-1974)					a/ Including "Blockboard",	
SITC Code		63121 a/					"Laminboard" & "Batten-	
NSTC Code							board"	
Source	Quantity				Value			
	11 Production	4 Shipment	4 Export	4 Import	4 Production	4 Shipment	4 Export	4 Import
Unit	CHM		TM	TM		1000\$	1000\$	
1970	1125851		427704	479		91868	221	
1971	1375309		552642	134		126823	111	
1972	1668407		1184160	14336		163419	30	
1973	1915934		770228	226		273989	205	
1974	1573318		495753	222		164618	395	
1975	1861759		664105	610		206621	518	
1976	1105587		896351	125		333887	259	
1977	2536304		1384020	2226		388927	1300	
1978	2742238		1126920	772618		411672	3642	
1979	2510415		727576	106531		415831	6167	
1980	1704410		938322	30544		349727	14359	
1981	1734738		1934980	29213		391578	9682	
1982	1338964		-	-		-	-	
1983	-		-	-		-	-	
1984	-		-	-		-	-	

Country: Korea, Republic of

Commodity: Newsprint

ISIC Code	341119							
NSIC Code	3411203 (1970-1974)		34112100 (1975- )					
SITC Code	6411 a/							
NSIC Code								
	Quantity				Value			
Source	2,12,14,15	12,14,15	4	4	12,14,15	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	TN	TN	TN	TN	1000WN		1000\$	1000\$
1970	104918	104063	1	6638	6630542		0	1093
1971	106680	106533	5	12782	7442813		1	2107
1972	98104	98740	248	5330	8156169		50	790
1973	124561	126280	2	5276	11693256		0	898
1974	150513	148505	98	-	15659723		76	-
1975	150480	138470	4404	5	24799234		1180	1
1976	154630	170710	8399	-	26278392		2389	-
1977	200546	200779	4186	0	33435065		1416	2
1978	194594	194415	3750	-	34287000		1083	-
1979	174600	175118	2388	-	-		926	-
1980	213000	213209	22051	3	-		10885	3
1981	234343	231991	50922	0	38184000		12948	3
1982	203336	205088	-	-	72520000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ SITC 6411 = ISIC 341119

Country: Korea, Republic ofCommodity: Kraft Paper and Kraft Paperboard

Source	Quantity				Value			
	11,12,et Production	12,14,15 Shipment	4 Export	4 Import	12,14,15 Production 1000WN	Shipment	4 Export 1000\$	4 Import 1000\$
Unit	TM	TM	TM	TM				
1970	104918	104063	-	3346	6630542		-	607
1971	1619045	1643334	55	2001	5822182		8	389
1972	77593	76830	30	9082	6937016		8	1529
1973	103501	101983	7485	16944	12269774		3344	3834
1974	114179	110202	5148	10099	21657921		3373	3461
1975	115263	115379	814	6949	24129342		222	2493
1976	128388	125893	70	5285	20589637		35	1672
1977	157130	156865	16256	2103	31275516		4926	792
1978	176917	183078	13758	5808	34550000		4879	1827
1979	201486	190642	20684	10783	-		7977	3961
1980	200526	199180	37457	13249	-		15607	6387
1981	187210	186633	48902	12673	75366000		19959	6749
1982	186028	185657	-	-	81468000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ SITC 6413 = ISIC 341125

b/ Data source: 11, 12 14, &  
15

Country: Korea, Republic of

Commodity: Ammonia

ISIC Code	351158								Note: a/ SITC 51361 = ISIC 351158
NSIC Code	351*								
SITC Code	51361 a/								
NSIC Code									
	Quantity				Value				
Source	11		4	4		4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN		TN	TN			1000\$	1000\$	
1970	512000		-	1			-	2	
1971	524000		-	5			-	4	
1972	518000		-	7027			-	389	
1973	575000		-	31090			-	1969	
1974	687000		10	1800			3	317	
1975	796000		1	214			0	347	
1976	733000		-	3560			-	391	
1977	882000		1000	365			97	54	
1978	1091000		1	3005			0	335	
1979	1169000		-	19			-	27	
1980	1031000		-	19			-	19	
1981	908000		1	3763			21	1158	
1982	661000		-	-			-	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Korea, Republic ofCommodity: Fertilizer, Mixed or Compound

ISIC Code	3512*								Note: a/ Data source: 11, 12, 14 & 15
NSIC Code	3512201 (1970-1974)		35124100, 35121119, 35122129, 35123119 (1975- )						
SITC Code	5619								
NSTC Code	5619100 (1970-1975)		562192, 562294, 56291, 56292 (1976- )						
	Quantity				Value				
Source	11,12,etc <sup>a/</sup>	12,14,15	13	13	12,14,15		13	13	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000WN		100\$	100\$	
1970	452147	447121	10712	1806	13443008		6347	1329	
1971	457053	472096	68972	23348	12756200		46395	18049	
1972	451380	436416	94307	40507	15991505		72356	32861	
1973	629877	630227	24100	15748	21133715		23836	7431	
1974	655444	654428	-	3	33364759		-	83	
1975	854440	851651	-	55	74092441		-	237	
1976	819091	789700	-	5	87784530		-	105	
1977	1123404	1114346	129483	124	99716735		193538	275	
1978	4676116	1682326	417145	14	149507000		708209	300	
1979	1696365	1339599	549041	23	-		1252718	258	
1980	1438528	1440118	452303	14	-		1345801	89	
1981	1346203	1335764	240857	-	196496000		691845	-	
1982	1642351	1659401	663906	83874	329809000		1354778	165918	
1983	-	-	762113	8539	-		1326086	15720	
1984	-	-	829489	47676	-		1569197	123675	



Country: Korea, Republic of

Commodity: Motor Gasoline

Source	Quantity				Value			
	12,14,15 Production	12,14,15 Shipment	4 Export	4 Import	12,14,15 Production	Shipment	4 Export	4 Import
Unit	100CLM	1000LM	TM	TM	1000WN		1000\$	1000\$
1970	942780	868503	146815	109	19580810		3243	4
1971	1016947	991360	262069	112475	28061585		5684	2163
1972	983376	952820	541355	3425	28363576		12207	200
1973	1042063	1028514	430328	8878	41567773		15699	1246
1974	702458	685221	357120	10019	29536738		42527	1900
1975	1335804	1343779	216139	7400	134990461		25229	1959
1976	1593055	1634706	391424	11420	164140470		50360	2679
1977	2043321	2030153	374993	198196	108546101		48050	20510
1978	1760225	2128582	156769	10050	122973000		21425	3583
1979	-	2249070	49571	16544	-		9448	7267
1980	-	1642736	1	130718	-		0	52290
1981	1854397	1807585	164096	216283	433392000		57145	70074
1982	1851693	1901190	-	-	439298000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ ISIC 353007A: Part of  
SITC 3321

Country: Korea, Republic of

Commodity: Distillate Fuel Oils

ISIC Code		353019A							Note: a/ SITC 3323 = ISIC 353019A b/ Unit: 1) 1970-1978, 1981-: 1000LM 2) 1979-1980: 1000TM
NSIC Code		3530107 (1970-1974)			35301217 (1975- )				
SITC Code		3323 a/							
NSTC Code									
Source	Quantity				Value				
	2,12,14,15	12,14,15	4	4	12,14,15	4	4		
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	1000LM/TM	1000KLM	TM	TM	1000000WH	1000\$	1000\$	1000\$	
1970	923199	956920	-	13	10570	-	1		
1971	576102	551946	8	-	31854	35	-		
1972	2336169	2336046	368501	3143	35870	1454	84		
1973	1451753	1418340	140066	8	51738	4065	0		
1974	2925495	2918522	169741	3502	125653	16984	360		
1975	3316653	3347344	220362	9360	166532	21366	880		
1976	4074520	4079762	421823	1630	225793	43496	147		
1977	4826115	4781206	267783	95	211992	29399	11		
1978	6516814	6518487	10817	133838	276838	1161	16702		
1979	5264	5865725	-	496	-	-	1272		
1980	5330	6028042	2970	283	-	879	63		
1981	6451378	6417261	144410	15955	1211166	46269	3970		
1982	6566088	6621336	-	-	1427954	-	-		
1983	-	-	-	-	-	-	-		
1984	-	-	-	-	-	-	-		



Country: Korea, Republic of

Commodity: Residual Fuel Oils

Source	Quantity				Value			
	2,12,15 Production	12,15 Shipment	4 Export	4 Import	12,15 Production	Shipment	4 Export	4 Import
Unit	TN/KLM <sup>b/</sup>	KLM	TM	TM	1000WN		1000\$	1000\$
1970	5743000	-	94403	1	-		1460	0
1971	6803000	-	33616	1345	-		572	143
1972	7286000	-	58386	0	-		917	1
1973	8567000	-	297543	78716	-		7283	1639
1974	8892000	-	143343	307912	-		10628	19523
1975	575673	554058	134485	422564	23043617		10631	31833
1976	801737	817993	130899	26878	38796167		10418	3591
1977	876058	860463	9394	743393	36858666		741	65203
1978	1918118	1972281	-	399042	85606000		-	27568
1979	13765000	1104315	9450	1516310	-		1815	202144
1980	13808000	750932	98844	1943900	-		19687	352559
1981	611268	641417	70775	1773540	118890000		8086	367762
1982	513353	510928	-	-	92975000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ SITC 3324 = ISIC 353022A

b/ Unit:

1) 1970-1974, 1979-1980: TM

2) 1975-1978, 1981-: KLM

Country: Korea, Republic of

Commodity: Bunker C Oil

ISIC Code	353*								Note: a/ Data source: 11, 12, 14 & 15
NSIC Code	3530109 (1970-1974)				35301221 (1975- )				
SITC Code	332*								
NSTC Code	33442								
	Quantity				Value				
Source	11,12,etc. Production	12,14,15 Shipment	13 Export	13 Import	12,14,15 Production 1000000WN	Shipment	13 Export	13 Import	
Unit	KLH	KLH	KLH	KLH			\$	\$	
1970	-	-	-	-	-	-	-	-	
1971	-	-	-	-	-	-	-	-	
1972	-	-	-	-	-	-	-	-	
1973	8202173	8329133	-	-	58855	-	-	-	
1974	8674480	8518570	-	-	224520	-	-	-	
1975	9830561	9692614	-	-	373891	-	-	-	
1976	10403287	10625314	-	-	426078	-	-	-	
1977	12427062	12181779	-	739879	501259	-	-	59446358	
1978	12120300	12238822	-	330474	511697	-	-	24157454	
1979	13319976	13144283	300	1536760	-	-	30378	198187731	
1980	13772221	13914706	83423	1945898	-	-	14421391	346770895	
1981	13352574	13551207	35127	2869197	2214273	-	6690621	362814050	
1982	12815540	12838421	144950	2441716	2188977	-	25439017	452467927	
1983	-	-	419510	1720956	-	-	77254039	294744618	
1984	-	-	838510	1754947	-	-	204384330	310673677	

Country: Korea, Republic ofCommodity: Hard-Coal Briquettes

Source	Quantity				Value			
	11,12,etc. Production	12,14,15 Shipment	4 Export	4 Import	12,14,15 Production	Shipment	4 Export	4 Import
Unit	TN	TN	TN	TN	1000WN		1000\$	1000\$
1970	17630276	15284534	-	-	31621337		-	-
1971	-	-	-	289	-		-	44
1972	9518737	9792824	-	-	44872392		-	-
1973	15402995	15468700	-	2	68953918		-	0
1974	13463168	13453008	-	-	79751368		-	-
1975	13838449	13821919	2	3	-		0	0
1976	13710887	13710520	-	50	118158067		-	13
1977	20732713	20745370	2	74	165962719		0	17
1978	15928074	15841195	-	1609	236818000		-	151
1979	14782308	16835601	-	106216	-		-	5289
1980	16075154	17243357	-	20616	-		-	1404
1981	17920578	17920390	2	189426	614998000		0	12923
1982	16201055	16081933	-	-	660813000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ SITC 3215 = ISIC 354001

b/ Data source: 11, 12, 14 &amp; 15

Country: Korea, Republic of

Commodity: Rubber Tire and Tubes

Source	Quantity				Value			
	12,14,15 Production	12,14,15 Shipment	4 Export	4 Import	12,14,15 Production	4 Shipment	4 Export	4 Import
Unit	NOM	NOM	TM	TM	1000WN	1000\$	1000\$	1000\$
1970	5182867	5273955	3775	200	9933882		2864	325
1971	2432901	2280159	5671	439	9877853		4054	348
1972	17043752	16845114	13269	281	15113149		10323	398
1973	18816297	18004496	19956	210	27322207		18500	527
1974	27689434	22896280	42609	188	50095585		59797	578
1975	33984377	33473700	53127	182	73853796		82157	744
1976	41796305	41563697	86672	189	97825965		128937	762
1977	66478835	65494107	95421	637	120085961		148045	989
1978	79015600	78505147	130301	757	170020000		213808	2551
1979	-	80563104	169814	1336	-		325036	5225
1980	-	95995029	206140	775	-		477081	3747
1981	90769042	91458681	211200	1096	435197000		459641	4269
1982	75420414	76688810	-	-	371016000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ Including all the commodity codes of "Rubber Tire and Tubes"

Country: Korea, Republic of

Commodity: Cement

ISIC Code	369204							
NSIC Code	3692101-04, 3692199 (1970-1974)				36921111-14, 36921312, etc. <sup>a/</sup> (1975- )			
SITC Code	6612							
NSTC Code								
Source	Quantity				Value			
	12,14,15 Production	12,14,15 Shipment	4 Export	4 Import	12,15 Production	Shipment	4 Export	4 Import
Unit	TM	TM	TM	TM	1000WN		1000\$	1000\$
1970	9916064	9666888	450866	967	32081292		4442	89
1971	83605609	73690785	1007880	712	40383218		10587	187
1972	7418574	7361922	1176790	1635	41803613		12718	106
1973	7725330	8245012	1531190	411	44839415		19619	124
1974	9381644	9375011	1949730	57947	100055157		48946	1686
1975	9429703	9348612	2439380	1817	143584802		68922	138
1976	12746019	12728162	302430	851	195107848		109933	277
1977	16182753	16219259	4000020	1994	269316142		154990	528
1978	17520441	17572104	2877790	509348	317429000		142265	18964
1979	-	22773108	2439230	467750	-		113982	19487
1980	-	21835048	4754450	5115	-		234668	1420
1981	22825780	22953680	6634670	7569	702439000		339071	1454
1982	19924304	19935968	-	-	717024000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ Including; Hydraulic cement, portland cement, white cement & cement clinker etc.

Country: Korea, Republic ofCommodity: Pig Iron, Steel Making

ISIC Code	371010								Note:
NSIC Code	3710101 (1970-1974)				37101111 (1975-)				
SITC Code	6712								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH	TH	TH	TH			1000\$	1000\$	
1970	19425	5942	82	7375			23	919	
1971	1554	2271	373	53166			83	3267	
1972	1412	637	5671	82540			271	4720	
1973	454603	46698	2877	84861			974	7787	
1974	986935	23780	3360	80035			1691	15171	
1975	1186343	65749	150	75199			78	11214	
1976	1937395	130095	445	8770			185	1466	
1977	2425410	163847	15073	10681			1016	2364	
1978	2741147	204913	17176	29668			2334	4438	
1979	5062549	233804	32461	79917			5050	13401	
1980	5577361	269992	150676	16971			23857	1356	
1981	7928331	125687	28401	63917			11354	8711	
1982	8444672	241324	-	-			-	-	
1983	-	-	-	-			-	-	
1984	-	-	-	-			-	-	

Country: Korea, Republic of

Commodity: Crude Steel, Ingot

ISIC Code	371019								Note:
NSIC Code	3710102-03(1970-1974) 37102111-12, 13, 37102121, 37102123(1975-)								
SITC Code	8723								
NSTC Code									
Source	Quantity				Value				
	11	11	4	4			4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TH	TH	TH	TH			1000\$	1000\$	
1970	480961	44573	18100	786			1855	78	
1971	471530	13485	-	16408			-	1384	
1972	585103	47757	85	3993			25	351	
1973	1157128	109912	260	2585			81	351	
1974	1934743	86010	3032	4365			769	888	
1975	2009753	50172	-	2101			-	347	
1976	2698332	84416	4	2499			10	690	
1977	2736669	117140	104	10059			61	2318	
1978	3138497	91108	309	9872			157	3802	
1979	5199930	69838	239	12497			202	5503	
1980	5712084	80866	39198	8368			9133	3274	
1981	5890943	30111	2459	19380			2057	4666	
1982	5636121	17623	-	-			-	-	
1983			-	-			-	-	
1984			-	-			-	-	

Country: Korea, Republic of

Commodity: Wire Rods

ISIC Code		371028								Note: a/ SITC 6731 = ISIC 371028
NSIC Code		3710207 (1970-1974)		37102216 (1975- )						
SITC Code		6731 a/								
NSIC Code										
Source	Quantity				Value					
	2		4	4			4	4		
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
	TN		TN	TN			1000\$	1000\$		
1970	73000		123	25736			36	3585		
1971	83000		123	24825			15	3397		
1972	-		3398	31055			400	4408		
1973	95000		670	55394			150	9810		
1974	176000		41698	105371			14296	28779		
1975	164000		6483	139770			1386	24570		
1976	191000		40635	223662			8805	31272		
1977	241000		-	174093			2061	45034		
1978	299000		34775	271408			10767	80767		
1979	425000		120101	266258			40294	95806		
1980	553000		160832	199693			53933	79526		
1981	590000		166213	248910			30379	77939		
1982	636000		-	-			-	-		
1983	-		-	-			-	-		
1984	-		-	-			-	-		



Country: Korea, Republic of

Commodity: Plates (Heavy and Medium)

Source	Quantity				Value			
	11.12 Production	Shipment	4 Export	4 Import	Production	Shipment	4 Export	4 Import
Unit	TM		TM	TM			1000\$	1000\$
1970	309336		0	24052			1	5064
1971	425320		7627	18168			943	4314
1972	786978		414982	46270			6351	9014
1973	1116269		133464	152395			22380	28268
1974	1293985		231131	219610			70768	56512
1975	349853		163435	238259			32876	63329
1976	436535		168252	66878			35570	13893
1977	502227		96726	339532			21592	75829
1978	820510		157245	384165			45551	113773
1979	1439155		671309	179782			210607	73551
1980	1497217		936990	169389			287174	77368
1981	1765349		879835	773996			286928	125402
1982	1813033		-	-			-	-
1983	-		-	-			-	-
1984	-		-	-			-	-

Note:

a/ SITC (6741 + 6742) =  
ISIC (371040 + 371043)

Country: Korea, Republic of

Commodity: Sheets, Cold Rolled and Hot Rolled

Source	Quantity				Value			
	11,12,etc. Production	12,14,15 Shipment	4 Export	4 Import	12,14,15 Production	Shipment	4 Export	4 Import
Unit	TM	TM	TM	TM	1000VN		1000\$	1000\$
1970	111275	111029	51832	37016	5432533		7551	15244
1971	166077	163582	149089	47468	5000418		19150	10802
1972	602700	598656	418939	44897	43195309		60254	13188
1973	289397	256367	529251	93873	34711833		104468	13516
1974	957827	1001321	478350	60454	110616892		150774	22977
1975	232132	225374	179483	46879	28873439		38679	20179
1976	792021	780332	483494	252381	111298813		121403	68844
1977	1103811	1081198	451039	198688	144352576		134211	38592
1978	1249348	1306186	676290	219470	199738000		226196	85624
1979	-	1346015	531645	230488	-		211481	110853
1980	1035184	1011691	505687	272091	-		229141	98095
1981	1061804	1040550	502373	182758	276535000		176816	92655
1982	959849	944136	-	-	271911000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ Data source: 11, 12, 14  
& 15

Country: Korea, Republic of

Commodity: Bars and Rods

Source	Quantity				Value			
	11, 12, etc. <sup>b/</sup>	12, 14, 15	4	4	12, 14, 15	4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import
	TM	TM	TM	TM	1000WN		1000\$	1000\$
1970	889632	765650	223	16505	23251726		49	3069
1971	2696173	2375347	29	20916	20122350		12	3764
1972	2285774	2307964	84	31180	21461379		36	4964
1973	575120	592829	93	45344	33003806		41	10656
1974	657760	654083	5173	58906	59534804		1514	21128
1975	903506	888623	270	81442	98184885		128	26461
1976	1125934	1029040	230	106743	110048144		207	31468
1977	1327199	1300787	7711	147435	150580260		2051	49586
1978	2079813	2064090	5405	174781	192606000		3095	65259
1979	1943587	1836495	4343	214214	-		6492	87450
1980	2289276	2113951	11336	179043	-		16829	72597
1981	2157660	2224281	24295	197825	459577000		13025	72576
1982	2615185	2509677	-	-	528811000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ Including all the commodity codes of "Bars and Rods"

b/ Data source: 11, 12, 14 &amp; 15

Country: Korea, Republic of

Commodity: Tube and Pipe of Iron or Steel

ISIC Code		371076 & 371079								Note: a/ Including all the commodity codes of "Tube & Pipe of Iron or Steel" b/ Data source: 11, 12, 14 & 15
NSIC Code		3710201, 3710301 (1970-1974)		37104111-14, 37104121, etc. a/(1975- )						
SITC Code		678								
NSTC Code										
Source		Quantity				Value				
		11,12,etc <sup>b/</sup>	12,14,15	4	4	12,14,15	4	4		
Unit		Production	Shipment	Export	Import	Production	Shipment	Export	Import	
		TH	TH	TH	TH	1000WN		1000\$	1000\$	
1970		255851	225253	3197	24394	7660241		697	12862	
1971		389717	374291	8678	44805	12633812		1338	20105	
1972		425112	425840	50402	35847	16476457		8443	14419	
1973		296353	274988	100241	26754	38351144		25828	10359	
1974		386862	373854	206372	27920	63074386		82783	23605	
1975		449830	451271	164894	31629	74098625		59528	30044	
1976		526810	523374	254550	48188	85138930		82277	31703	
1977		708687	714564	272315	151726	113119232		97261	64551	
1978		1117297	1112380	533927	270971	199464000		172757	78395	
1979		1152517	1117100	508811	-	-		234576	107685	
1980		1168846	1210830	774607	145120	-		362403	79082	
1981		1557868	1540538	1222910	490662	591969000		514950	107519	
1982		1391952	1353537	-	-	519583000		-	-	
1983		-	-	-	-	-		-	-	
1984		-	-	-	-	-		-	-	

Country: Korea, Republic of

Commodity: Sewing Machines

ISIC Code		382910						
NSIC Code		3829401, 3829402 (1970-1974) 38295111-13, 38295211-13, 38295219 (1975- )						
SITC Code		7173 a/						
NSTC Code								
Source	Quantity				Value			
	11,12 Production	12,14,15 Shipment	4 Export	4 Import	12,14,15 Production	Shipment	4 Export	4 Import
Unit	NOM	NOH	TM	TM	1000WN		1000\$	1000\$
1970	117837	138667	251	1535	783354		431	5630
1971	128940	125882	481	1579	785854		844	6312
1972	111651	104063	1553	1273	715192		2625	5694
1973	228567	153739	2778	3071	2485893		5816	15479
1974	249650	248181	3330	2075	4065988		9037	15130
1975	287177	261068	2795	1913	5156065		8803	14089
1976	567865	538124	5662	3050	14304948		15345	23993
1977	551860	511745	5505	9754	14377199		17644	22300
1978	496442	454130	4120	1425	22049000		17658	22169
1979	443751	424613	3815	1178	-		18063	21886
1980	430071	294303	4142	1988	-		18059	15449
1981	311564	329684	2972	1299	24428000		16580	20178
1982	173172	169350	-	-	17742000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ SITC 7173 = ISIC 382910

Country: Korea, Republic of

Commodity: Refrigerators for Household Use

ISIC Code		382958								Note: a/ SITC (71942 + 72501) = ISIC 382958 b/ Data of 1970-1971 & 1973 includes "Freezer for Agri- culture"
NSIC Code		3829301, 3833001		(1970-1974)		38331100 or 38331111		(1975- )		
SITC Code		71942, 72501		a/						
NSTC Code										
Source	Quantity				Value					
	2,12,14,15b/ Production	12,14,15b/ Shipment	4 Export	4 Import	12,14,15 Production	Shipment	4 Export	4 Import		
Unit	NOM	NOM	TM	TM	1000WH		1000\$	1000\$		
1970	30473	27714	1	1069	1916408		1	1069		
1971	37462	36677	1	972	1739712		3	972		
1972	30051	29211	3	329	2373072		54	329		
1973	61823	64589	1	202	6265416		1	202		
1974	127340	102222	1	349	15393483		1	349		
1975	162270	145652	48	182	23616069		115	182		
1976	260671	227205	475	769	44625683		1247	769		
1977	396065	423161	1150	1797	42254381		2965	1797		
1978	1042940	1049179	3682	164	114064000		8831	1202		
1979	1445000	-	3427	595	-		9471	2731		
1980	652000	-	5188	263	-		17637	1605		
1981	932331	901830	9684	205	109017000		32544	945		
1982	975431	980553	-	-	143402000		-	-		
1983	-	-	-	-	-		-	-		
1984	-	-	-	-	-		-	-		



Country: Korea, Republic of

Commodity: Television (Broadcast) Receivers

ISIC Code 383201									Note: a/ SITC 7241 = ISIC 383201 b/ Data source: 11, 12, 14 & 15
NSIC Code 3832104 (1970-1974) 38321111-38321113 (1975- )									
SITC Code 7241 a/									
NSTC Code									
Source	Quantity				Value				
	11,12,etc. <sup>b/</sup>	12,14,15	4	4	12,14,15	4	4		
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	NOH	NOH	TH	TH	1000WN		1000\$	1000\$	
1970	123266	118170	12	606	7382750		85	2884	
1971	225260	219802	614	937	7972831		3003	4976	
1972	336284	346628	1317	954	16291206		7420	7079	
1973	816369	814795	4570	2280	28042095		23895	10875	
1974	1155435	1135177	6349	3629	52803383		37406	18664	
1975	1275223	1288511	4266	1403	71868558		31362	10089	
1976	2290647	2244452	10192	1827	106252643		72597	14824	
1977	3000382	2995344	14343	21125	105413581		100295	11521	
1978	4470882	4435065	32016	1009	218893000		230596	15378	
1979	5867321	6557361	42075	563	-		300760	7987	
1980	6973302	6476469	55528	658	-		419958	9991	
1981	7965349	7908956	65090	425	535250000		500527	7038	
1982	6195834	6193987	-	-	563984000		-	-	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	



Country: Korea, Republic of

Commodity: Radio Receivers

Source	Quantity				Value			
	11, 12, etc. Production	12, 14, 15 Shipment	4 Export TM	4 Import TM	12, 14, 15 Production 1000VN	Shipment	4 Export 1000\$	4 Import 1000\$
Unit	NOM	NOM						
1970	2108285	2128471	726	615	2352885		4645	3532
1971	924798	910673	989	720	2514447		5785	5814
1972	1384051	1403879	1869	1092	4840867		12223	6458
1973	3285451	3286131	4318	1333	23287667		32753	10796
1974	3703998	3413243	5651	1170	26540284		49596	11192
1975	4356567	4392616	5539	1074	37016471		50374	10438
1976	6704121	-	10353	1664	-		91613	15389
1977	6544530	6576289	13208	35020	54539923		125968	10510
1978	4952205	4950469	17761	2976	56894000		182361	33640
1979	4772359	5002994	39957	3855	-		282356	54732
1980	3971886	4496507	21602	3515	-		286617	45548
1981	5287204	5058160	24537	2366	92737000		345817	42804
1982	7768657	7747752	-	-	100697000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ SITC 7242 = ISIC 383204

b/ Data source: 11, 12, 14 &  
15

Country: Korea, Republic of

Commodity: Wire and Cable, Insulated

Source	Quantity				Value			
	11, 12, 14 Production	11, 12, 14 Shipment	4 Export	4 Import	12, 14 Production	Shipment	4 Export	4 Import
Unit	1000KGM	1000KGM	TM	TM	1000WN		1000\$	1000\$
1970	7308	7186	101	18258	6645314		99	2407
1971	7293	6562	195	63957	5957579		210	6811
1972	14097	13736	771	2833	12518239		749	7049
1973	19329	17749	2541	5136	12075902		3393	7852
1974	21962	21050	2919	3085	33422898		8340	12082
1975	22863	24165	8005	2700	-		17179	12220
1976	35312	34393	10828	11416	74191440		19928	16540
1977	48339	47214	11069	4582	102491156		22110	16098
1978	87832	86884	23341	4188	-		45421	23182
1979	87787	55682	27223	8810	-		52609	43612
1980	79308	77679	21250	5587	-		61836	33039
1981	96016	94462	59927	5667	-		99409	34656
1982	99058	95870	-	-	-		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

Country: Korea, Republic of

Commodity: Passenger Cars

ISIC Code		384307 & 384310						
NSIC Code		3843101 (1970-1974)		38431100 (1975- )				
SITC Code		7321 a/						
NSTC Code								
Source	Quantity				Value			
	11,12,etc. Production	12,14,15 Shipment	4 Export	4 Import	12,14,15 Production	Shipment	4 Export	4 Import
Unit	NOM	NOM	TM	TM	1000VN		1000\$	1000\$
1970	13555	13113	43	72875	14903575		121	17066
1971	11358	11072	80	8259	14208475		208	14514
1972	8686	8033	57	7002	14486751		128	12662
1973	12632	13345	64	9816	22993889		141	20653
1974	8837	8124	31	3729	14780296		70	6841
1975	18422	19404	51	2766	36791107		117	7646
1976	26659	26031	861	1938	64245449		2333	5843
1977	44018	43184	5839	1573	89284641		14587	4742
1978	106818	104002	13798	5263	194300000		42322	18002
1979	112400	112296	17189	3220	-		53739	15502
1980	57037	60532	15220	3824	-		49695	5966
1981	71693	73447	18481	2594	230673000		69625	11917
1982	98738	98313	-	-	348581000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ SITC 7321 &gt; ISIC 384307 &amp; 384310

b/ Data source: 11, 12, 14 &amp; 15

Country: Korea, Republic of

Commodity: Lorries (Trucks)

ISIC Code		384315 & 384316						Note:	
NSIC Code		3843105 (1970-1974)		38431300, 38431311-38431313 (1975- )					
SITC Code		7323 a/						a/ SITC 7323 > ISIC 384315 & 384316	
NSIC Code								b/ Data source: 11, 12, 14 & 15	
Source	Quantity				Value				
	11,12,etc. Production	12,14,15 Shipment	4 Export	4 Import	11,12,etc. Production	Shipment	4 Export	4 Import	
Unit	NOM	NOM	TM	TM			1000\$	1000\$	
1970	5112	4661	10	19699	11780815		22	21479	
1971	2279	2408	173	14912	6120136		173	19593	
1972	3409	3491	410	14510	7094752		410	10921	
1973	7723	7793	201	13954	17024422		206	22521	
1974	19180	18979	179	20908	48014629		132	40155	
1975	15678	15210	365	16271	45370716		612	39651	
1976	19462	19567	1318	7893	70904257		3519	18319	
1977	36789	36256	2314	4759	131081509		5363	16522	
1978	49926	49078	8705	39026	203976000		22292	108015	
1979	72479	4309	13600	4966	-		41492	18832	
1980	51373	952	11169	2481	-		39021	9187	
1981	42496	42947	10233	1030	217517000		41060	3628	
1982	44466	44137	-	-	275891000		-	-	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Korea, Republic of

Commodity: Bicycles

Source	Quantity				Value			
	12,14,15	12,14,15	4	4	12,14,15	4	4	
Unit	Production NUM	Shipment NUM	Export TM	Import TM	Production 1000WN	Shipment 1000\$	Export 1000\$	Import 1000\$
1970	46438	46370	61	8	903831		69	11
1971	89496	89398	431	2	946676		472	4
1972	206967	195850	1696	147	6325778		2878	328
1973	79602	79856	3361	805	3649012		8146	1912
1974	468590	6245056	4654	188	6347578		10469	370
1975	336835	332713	3441	7	10711548		8522	22
1976	345623	346945	4802	11	13355447		9986	36
1977	545970	532486	6217	2003	20849451		14778	27
1978	867924	870202	5483	6	39480000		14972	38
1979	-	559945	3788	55	-		10270	437
1980	-	568672	4698	52	-		16392	288
1981	845519	816381	4324	30	37518000		16120	19
1982	325392	325471	-	-	29701000		-	-
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ Including "Other cycles,  
Not motorized"

PART X

MALAYSIA

- I. Explanatory Notes on Manufacturing Statistics  
Appendix: Coverage of Census and Survey of  
Manufacturing Industries in Malaysia
- II. General Industrial Statistics
- III. Converter between ISIC and MIC  
(Malaysia Industrial Classification)
- IV. Commodity Balance Sheets

I. Explanatory Notes on Manufacturing Statistics

## Malaysia

### 1. Industrial Census

Reference Period: Calender Year

Survey Year : 1973, 1981

Office in charge: Department of Statistics

Title of Report : "Census of Manufacturing Industries"

Coverage:

All the manufacturing industries as classified in the Malaysia Industrial Classification are covered.

Please refer to the Appendix (Coverege of Census and Survey of Manufacturing Industries in Malaysia).

Frame of Establishments:

The frame of establishments for the census was obtained from the directory of manufacturing establishments maintained by the Department. This directory was built up mainly from records of the Registrar of Businesses and Registrar or Companies. Other sources included the Registrar of Cooperatives and appropriate Government Departments. The directory is updated every year to take into account new establishments, defunct establishments, changes in addresses and activities of establishments.

Items of information requested:

Legal organization, Ownership by citizenship, Business activity, Working days, Employment and payroll, Overtime, Value of production manufactured, Value of work done for others, Value of Goods sold in the same condition as purchased, Cost of materials and supplies consumed, Non-industrial services, Indirect taxes and subsidies, Capital expenditure and value of fixed assets, Value of stocks owned, Capacity of power equipment.

Data Available:

- \* Number of establishments
- \* Gross value of output
- \* Cost of input
- \* Value added
- \* Number of persons engaged (paid and unpaid workers)
- \* Salaries and wages
- \* Value of fixed assets

Classification:

Malaysia Industrial Classification, 1972.



Method of Collection:

The survey was basically a mail survey. Questionnaires were despatched to all establishments in the frame. Respondents were given one month to complete and return the questionnaires to the Department. Reminders were sent to those establishments which had not submitted their returns on time. Finally, field enumerators were employed to cover the remaining non-response cases and to correct any inaccuracies in the returns submitted.

Number of Reported Establishments:

1973	11,060
1981	17,780

## 2. Industrial Survey (Annual)

Reference Period: Calender Year

Survey Year : 1970, 71, 72, 74, 75, 76, 77, 78, 79, 82.

Office in Charge: Department of Statistics

Title of Report : Survey of Manufacturing Industries  
(from 1970 to 1974)

Industrial Surveys  
(from 1975)

### Coverage:

In survey year, selected industries and all pioneer establishments engaged in manufacturing activities are covered. However, not all establishments in these industries are included in the survey. A cut-off bases on total employment is used as a further selection criteria to reduce costs of selection. Appendix lists the different cut-offs used by industry for Peninsular Malaysia.

### Frame of Establishments:

The frame of the establishments for the survey was obtained from the Directory of Manufacturing establishments maintained by the Department. This Directory has as its main source the Registrar of Companies and the Registrar of Businesses. The Directory is updated annually to take into account new establishments, defunct establishments and changes in addresses and activities of the establishments.

### Items of information requested:

Legal organization, Ownership, Business activity, Working days, Employment and payroll, Capital expenditure, Value of fixed assets, Value of production, Income from sales of goods, Income from services rendered, Income from property, Value of materials consumed, Water and Electricity purchased, Fuels consumed, Salaries, wages, etc. Interest charges, Indirect taxes, Value of stocks owned, Capacity of power equipment.

### Data Available:

- \* Number of establishments
- \* Gross value of output
- \* Cost of input
- \* Value added
- \* Number of persons engaged (paid and unpaid workers)
- \* Salaries and wages
- \* Value of fixed assets

In the 1932 survey, the data on Revenue and Expenditure is available instead of the Gross value of output and Cost of input.

Classification:

Malaysia Industrial Classification, 1967, 1972.

Method of Collection:

The Survey was a mail survey with a field follow-up of non-response cases. Respondents were given one month to complete and return the questionnaire to the Department. Reminders were sent to the non-response establishments and subsequently field work was used to cover the remaining non-response cases and in some cases to correct any inaccuracies in the returns submitted.

Number of Reported Establishments:

1970	3,192	1976	3,997
1971	3,372	1977	4,263
1972	3,685	1978	4,499
1974	4,696	1979	4,987
1975	3,892	1982	7,213

Definitions:

1) Manufacturing

The definition of Manufacturing used in the Survey follows that of the International Standard Industrial Classification of All Economic Activities (1958) published by the Statistical Office of the United Nations.

"Manufacturing" is defined as the mechanical or chemical transformation of inorganic or organic substances into new products whether the work is performed by power driven machines or by hand, whether it is done in the factory or in the workers' home, and whether the products are sold at wholesale or retail. The assembly of the component parts of manufactured products is considered as manufacturing except in cases where the activities are appropriately classified under construction. Establishment primarily engaged in repair work are included and classified according to the type of product repaired.

2) The Reporting Unit - The Establishment

The reporting unit or Statistical unit adopted for the survey is the "establishment" and the United Nations Statistical Office defines the establishment as "ideally, an economic unit which engages, under a single ownership or control in one or predominantly one kind of industrial activity at a single location".

### 3) Value of Output

- = Value of products manufactured
- + Income from industrial services rendered to others
- + Value of goods sold in the same condition as purchased
- + Receipts from electricity sold to other
- + Closing stocks of goods-in-process
- Opening stocks of goods-in-process
- + Other outputs

### 4) Cost of Input

- = Value of raw materials consumed
- + Cost of work done by others
- + Cost of goods sold in same condition as purchased
- + Electricity purchased
- + Value of supplies consumed
- + Fuels, lubricants and water consumed
- + Other inputs

### 5) Value of Stocks

This refers to value of stocks owned at 1st January and 31st December in connection with manufacturing activities and includes raw materials, fuels, supplies, goods-in-process and finished products.

### 6) Value Added

Value added is derived as follows: Gross value of output less cost of input.

### 7) Ownership

Respondents were requested to state ownership of the establishment on the basis of the "residential" status of the majority of shareholders, i.e. above 50% of shares in terms of capital invested. In the case of an establishment where 60% of the shares are held by Malaysian Residents and 40% by Non-Malaysian Residents, the unit is treated as Malaysian-owned. However, in the case of joint ventures where each party holds 50% of the capital, the establishments concerned are classified as jointly - owned by Malaysian and Non-Malaysian Residents.

A Malaysian Resident is defined as a person, company or institution who lives in or is located in Peninsular Malaysia, Sabah and Sarawak.

### 8) Employment

Employment refers to the total number of persons engaged during the last pay period of the year of enquiry. This would thus include working proprietors, active partners and unpaid family workers, together with paid employees.

(a) Working Proprietors and Active Business Partners:

This is defined to include all individual proprietors and partners, part-time, or full-time who are actively engaged in the work of the establishments. Silent or inactive partners and members of the proprietors family, unless they participate in the control and management of the business, are excluded.

(b) Unpaid Family Workers:

This is defined to include all persons, full-time or part-time, of the household of any of the owners of the establishment who perform a specified job and work for a minimum of one-third of the normal working time of the establishment but do not receive payment either in cash or in kind for his/her work. Such workers generally receive food, shelter and other support as part of the household of an owner but these provisions would continue whether they worked in the establishment or not.

(c) Full-time Employees:

This is defined to include all workers who work for at least 6 hours a day and for at least 20 days a month.

(d) Part-time Employees:

This is defined as all workers who normally work for less than 6 hours a day and/or less than 20 days a month.

9) Salaries and Wages Paid

Salaries and Wages paid refer to the value of money payments, including bonuses, cash allowances, etc. made to all paid workers during the calendar year. The employees' contribution to Employees' Provident Fund (E.P.F.) is included but the employers' contribution is excluded. Allowances to working proprietors, working partners and unpaid family workers is not included.

10) Net Value of Fixed Assets

Fixed Assets cover all goods, new or used, that have a normal economic life of more than one year (e.g. land, buildings, machinery and equipment including transport equipment). Their value is at the end of the year according to the books of accounts. It includes additions during the year and excludes assets disposed off during the year. It is net depreciation.

11) Goods Purchased and Sold in the Same Condition

This refers to goods purchased expressly for resale without further processing by the reporting establishments.

12) Total Revenue/Income includes the following

1. Value of goods produced (including goods resold)
2. Income from services rendered
3. Value of construction work done
4. Income from rental of property (e.g. transport equipment, buildings, houses, machinery, etc.)
5. Discount and interest
6. Dividends
7. All other receipts relating to your business activity

13) Total Expenditure includes the following

1. Value of materials and supplies consumed (including cost of goods for resale)
2. Water, electricity, fuels, etc.
3. Salaries and wages (including payments in kind)
4. Social security contributions
5. Repairs and maintenance
6. Non-industrial services (e.g. rent, advertising, legal fees, accounting fees, etc.)
7. Interest
8. Depreciation
9. Direct and Indirect Taxes (excluding personal income tax)
10. Other expenditure relating to your business activity

Appendix:

Coverage of Census and Survey of  
Manufacturing Industries in Malaysia

Coverage of Census and Survey of Manufacturing Industries in Malaysia

\* 10 and more full-time employees  
 \*\* 5 and more full-time employees

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
- -	<u>Complete</u> 5	3011) 3012)	Slaughtering, preparing and preserving meat	31110	10*	-	Complete
-	5	3021	Ice Cream	31121	10	-	"
<u>-</u> Complete	<u>-</u> Complete	3022) 3029)	Other dairy products	31129	Complete	Complete	"
Complete	Complete	3031	Pineapple Canning	31131	Complete	Complete	"
<u>-</u> -	<u>5</u> 5	3032) 3039)	Other canning and preserving of fruits and vegetables	31139	5**	-	"
<u>-</u> - -	<u>-</u> Complete 5	3041) 3042) 3043)	Canning, preserving and processing of fish, crustaceans and similar foods	31140	10	-	"
<u>-</u> Complete	<u>Complete</u> Complete	1331) 4121)	Coconut oil manufacturing	31151	Complete	Complete	"
-	Complete	1220	Palm oil manufacturing	31152	Complete	-	"



Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
-	5	4129	Palm kernel oil manufacturing	31153	Complete	-	Complete
<u>Complete</u> -	<u>Complete</u> 5	3092) 4129)	Other vegetable and animal oils and fats	31159	10	Complete	"
<u>-</u> Complete	<u>-</u> Complete	3053) 3055)	Large rice mills	31162	Complete	Complete	"
<u>-</u> -	<u>-</u> 5	3052) 3059)	Flour mills	31163	10	5	"
5	5	3054	Sago and tapioca factories	31164	10	5	"
5	5	3059	Other grain milling	31169	5	5	"
20	5	3061	Biscuit factories	31171	10	20	"
-	5	3062	Bakeries	31172	5	-	"
Complete	Complete	3070	Sugar factories and refineries	31180	Complete	Complete	"
5	5	3080	Manufacture of cocoa, chocolate and sugar confectionery	31190	10	5	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
-	5	3097	Ice factories	31211	10	-	Complete
<u>-</u> -	<u>-</u> 5	1520) 3096)	Coffee factories	31212	5	-	"
-	Complete	1420	Tea factories	31213	Complete	-	"
-	5	3091	Meehoon, noodles and related products	31214	10	-	"
-	5	3093	Spices and curry powder	31215	5	-	"
<u>-</u> - <u>10</u>	<u>-</u> - 5	3094) 3095) 3099)	Manufacture of other food products, n.e.c.	31219	10		"
20	5	3098	Manufacture of prepared animal feeds	31220	10	20	"
-	Complete	3110	Distilling, rectifying and blending spirits	31310	Complete	Complete	"
Complete	Complete	3130	Malt liquors and malt	31330	Complete	-	"
20	5	3140	Soft drinks and carbonated water industries	31340	10	20	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973, 1981
20	5	3200	Tobacco manufactures	31400	10	20	Complete
Complete	Complete	3311	Natural fibre spinning and weaving mills	32111	Complete	Complete	"
<u>Complete</u> Complete	<u>Complete</u> Complete	3312) 3313)	Dyeing, bleaching, printing and finishing of yarns and fabric (other than batek)	32112	Complete	Complete	"
Complete	Complete	3314	Handicraft spinning and weaving	32113	Complete	Complete	"
Complete	Complete	3315	Batek making	32114	Complete	Complete	"
Complete	Complete	3316	Synthetic textile mills	32115	Complete	Complete	"
Complete	Complete	3319	Manufacture of miscellaneous primary textiles	32119	Complete	Complete	"
-	5	3440	Manufacture of made-up textile goods except weaving apparel	32120	10	-	"
Complete	Complete	3320	Knitting mills	32130	Complete	Complete	"
Complete	Complete	3319	Manufacture of carpets and rugs	32140	Complete	Complete	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973, 1981
-	Complete	3330	Cordage, rope and twine industries	32150	Complete	Complete	Complete
Complete	Complete	3390	Manufacture of textiles, n.e.c.	32190	Complete	Complete	"
5	5	3432	Clothing factories	32201	10	5	"
-	5	3910	Tanneries and leather finishing	32310	10	-	"
-	5	3930	Manufacture of products of leather and leather substitutes, except footwear and wearing apparel	32330	10	-	"
5	5	3411	Manufacture of footwear, except vulcanized or moulded rubber or plastic footwear	32400	10	5	"
-	Complete	3511	Sawmills	33111	Complete	-	"
Complete	Complete	3512	Plywood, hard board and particle board mills	33112	Complete	Complete	"
10	5	3513	Planing mills, window and door mills and joinery works	33113	10	10	"
-	Complete	3516	Manufacture of prefabricated wooden houses	33114	Complete	-	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
-	Complete	3515	Manufacture of other wood products	33119	Complete	-	Complete
-	-	3521)	Manufacture of wooden and cane containers and small cane ware	33120	5	-	"
-	-	3522)					
-	5	3531)					
-	-	3532)					
-	5	3611)	Manufacture of furniture and fixtures, except primary of metal	33200	5	-	"
-	5	3612)					
-	5	3621)					
-	-	3622)					
-	-	3630)					
-	-	3640)					
-	5	3690)					
-	-	4030)					
Complete	Complete	3710	Manufacture of pulp, paper and paperboard	34110	Complete	Complete	"
10	5	3721	Manufacture of containers and boxes of paper and paperboard	34120	10	10	"
-	-	3722)	Manufacture of pulp, paper and paperboard articles	34190	10	-	"
-	5	3729)					

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
<u>20</u> <u>20</u> <u>20</u> <u>20</u>	<u>5</u> <u>5</u> <u>5</u> <u>5</u>	3810) 3821) 3822) 3830)	Printing, publishing and allied industries	34200	10	20	Complete
<u>Complete</u> <u>Complete</u> <u>Complete</u>	<u>Complete</u> <u>Complete</u> <u>Complete</u>	4111) 4112) 4119)	Manufacture of basic industrial chemicals except fertilizers	35110	Complete	Complete	"
<u>Complete</u> -	<u>Complete</u> Complete	4113) 4199)	Manufacture of fertilizers and pesticides	35120	Complete	<u>Complete</u> 10	"
-	Complete	4114	Manufacture of synthetic resins, plastic materials and man-made fibres except glass	35130	Complete	-	"
Complete	Complete	4130	Manufacture of paints, vernishes and lacquers	35210	Complete	Complete	"
<u>20</u> -	<u>5</u> -	4192) 4193)	Manufacture of drugs and medicines	35220	10	20	"
20	5	4191	Manufacture of soap and cleaning preparations	35231	10	Complete	"
20	5	4194	Manufacture of perfumes, cosmetics and other toilet preparations	35239	10	20	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
<u>-</u> <u>Complete</u> <u>Complete</u> 10	<u>Complete</u> <u>Complete</u> <u>Complete</u> <u>Complete</u>	4115) 4195) 4196) 4199)	Manufacture of chemical products, n.e.c.	35290	10	<u>-</u> <u>Complete</u> <u>Complete</u> 10	Complete
Complete	Complete	4210	Petroleum refineries	35300	Complete	Complete	"
-	Complete	4290	Manufacture of miscellaneous products of petroleum and coal	35400	Complete	-	"
<u>Complete</u> -	<u>Complete</u> -	4021) 4022)	Tyre and tube industries	35510	10	Complete	"
<u>-</u> -	<u>Complete</u> <u>Complete</u>	1121 1123)	Rubber remilling and rubber latex processing of estate	35591	Complete	Complete	"
-	5	1122	Rubber smokehouses	35592	10	-	"
Complete	Complete	4010	Manufacture of rubber footwear	35593	Complete	Complete	"
<u>Complete</u> <u>Complete</u>	<u>Complete</u> <u>Complete</u>	4030) 4090)	Manufacture of other rubber products, n.e.c.	35599	Complete	Complete	"
<u>20</u> -	<u>5</u> 5	4940) 3411)	Manufacture of plastic products, n.e.c.	35600	10	20	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973, 1981
-	5	4330	Manufacture of pottery, china and earthenware	36100	10	-	Complete
-	5	4320	Manufacture of glass and glass products	36200	10	-	"
-	5	4310	Manufacture of structural clay products	36910	10	-	"
Complete	Complete	4340	Manufacture of hydraulic cement	36921	Complete	Complete	"
-	5	4392	Manufacture of lime and plaster	36922	10	-	"
20	5	4350	Cement and concrete products	36991	10	20	"
-	5	4391	Cut-stone and stone products	36992	10	-	"
-	5	4399	Other non-metallic mineral products	36999	10	-	"
Complete	Complete	4410	Primary iron and steel industries	37101	Complete	20	"
5	5	4421	Foundries	37102	10	5	"
20	5	4429	Other iron and steel basic industries	37109	10	20	"



Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
-	Complete	4430	Tin smelting	37201	Complete	-	Complete
<u>-</u> Complete	<u>-</u> 5	4450) 4460)	Other non-ferrous metal basic industries	37209	10	Complete	"
<u>-</u> <u>-</u> <u>-</u>	<u>5</u> <u>5</u> <u>5</u>	3613) 3623) 3690)	Manufacture of furniture and fixtures primary of metal	38120	10	-	"
<u>20</u> <u>10</u> 20	<u>5</u> <u>5</u> 5	4510) 4520) 4550)	Manufacture of structural metal products	38130	10	<u>20</u> <u>10</u> -	"
Complete	5	4561	Manufacture of tin cans and metal boxes	38191	10	Complete	"
10	5	4530	Manufacture of wire and wire products	38192	10	10	"
20	5	4563	Manufacture of brass, copper, pewter and aluminium products	38193	10	20	"
<u>20</u> <u>-</u> Complete	<u>5</u> <u>-</u> 5	4569) 4582) 4590)	Manufacture of other fabricated metal products n.e.c.	38199	10	20	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973, 1981
<u>-</u> -	<u>5</u> 5	4620) 4630)	Manufacture of engines and turbines	38210	5	-	Complete
<u>-</u> -	<u>Complete</u> -	4610) 3630)	Manufacture of agricultural machinery and equipment	38220	10	-	"
<u>-</u> -	<u>5</u> 5	4620) 4630)	Manufacture of metal and wood working machinery	38230	10	-	"
-	5	4620	Manufacture of special industrial machinery and equipment except metal and wood working machinery	38240	10	-	"
<u>-</u> -	<u>-</u> Complete	4641) 4649)	Manufacture of office, computing and accounting machinery	38250	10	-	"
<u>-</u> -	<u>-</u> 5	4651) 4659)	Manufacture of refrigerating, exhaust, ventilating and air-conditioning machinery	38291	10	-	"
<u>-</u> - - Complete	<u>5</u> 5 - Complete	4620) 4630) 4641) 4649)	Machinery and equipment, n.e.c.	38299	10	-	"
<u>-</u> - Complete	<u>-</u> Complete Complete	4741) 4749) 4799)	Manufacture of electrical industrial machinery and apparatus	38310	10	Complete	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
Complete - - -	Complete 5 Complete Complete	4731) 4739) 4922) 4799)	Manufacture of radio, television and communication equipment and apparatus	38320	10	Complete	Complete
Complete	Complete	4721	Manufacture of electrical appliances and housewares	38330	Complete	Complete	"
- -	- Complete	4791) 4799)	Manufacture of cables and wires	38391	10	Complete	"
Complete	Complete	4711	Dry cells and storage batteries	38392	Complete	Complete	"
- -	- Complete	4791) 4799)	Manufacture electric lamps and tubes	38393	10	Complete	"
- -	- Complete	4791) 4799)	Miscellaneous electrical apparatus and supplies n.e.c.	38399	10	Complete	"
- - - -	Complete 5 - -	4811) 4812) 4813) 4814)	Shipbuilding and repairing	38410	10	-	"
10	5	4831	Manufacture of motor vehicle bodies	38431	10	10	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
Complete	Complete	4832	Manufacture and assembly of motor vehicles	38432	Complete	Complete	Complete
Complete	Complete	4834	Manufacture of motor vehicles parts and accessories	38439	Complete	Complete	"
<u>Complete</u> -	<u>Complete</u> -	4854) 4855)	Manufacture and assembly of motor cycles and scooters	38441	Complete	Complete	"
<u>Complete</u> <u>Complete</u> -	<u>Complete</u> <u>Complete</u> -	4851) 4852) 4853)	Manufacture and assembly of bicycles, tricycles and trishaws	38449	10	<u>Complete</u> <u>Complete</u> -	"
- - -	- <u>Complete</u> <u>Complete</u>	4961) 4962) 4963)	Manufacture of professional and scientific and measuring and controlling equipment, n.e.c.	38510	10	-	"
-	Complete	4922	Manufacture of musical instruments	39020	Complete	-	"
-	Complete	4932	Manufacture of sporting and athletic goods	39030	Complete	-	"
-	5	4991	Manufacture of brooms, brushes and mops	39091	10	-	"
-	Complete	4993	Manufacture of pens, pencils, office and articts supplies	39092	Complete	-	"

Monthly Survey 1970-1976	Annual Survey 1970-1974	1967 MIC	Industry Description	1972 MIC	Annual Survey 1975-1982	Monthly Survey 1977-1981	Census 1973,1981
- - - - - -	- <u>Complete</u> - - - 5	3523) 4932) 4950) 4992) 4995) 4999)	Other manufacturing industries, n.e.c.	39099	10	-	Complete
- - - - -	- - - - -	3412) 3514) 3591) 3592) 3599)	Manufacture of furniture and fixture, except primarily of metal	33190	-	-	Complete (Census only)
- -	- -	4541) 4542)	Manufacture of cutlery, handtools and general hardware excluding tinsmithing and blacksmithing	38111	-	-	"
-	-	4890	Manufacture of transport equipment, n.e.c.	38490	-	-	"
-	-	4970	Manufacture of photographic and optical goods	38520	-	-	"

## II. General Industrial Statistics

### 1. Explanatory Notes

### 2. Statistical Tables

#### 2.1 Number of Establishments

#### 2.2 Employment (Average Number of Persons Engaged)

#### 2.3 Employment (Average Number of Employees)

#### 2.4 Gross Output

#### 2.5 Wages and Salaries

#### 2.6 Value Added

#### 2.7 Gross Fixed Capital Formation

#### 2.8 Index Number of Industrial Production (1975=100)

## 1. Explanatory Notes

### I. Classification:

The data are taken from the ISIC, 3 digit code (International Standard Industrial Classification of All Economic Activities). The NA data (national source) based on the MIC (Malaysia Industrial Classification) are converted into ISIC based data using the Converter in Chapter III. Deviations from these standards, when known, are mentioned in the footnotes to each table.

### II. Source of Data:

The statistical data presented in the following tables are derived from three data sources, UN, UNIDO and NA. Data sources are abbreviated as follows.

UN ----- UN, "Yearbook of Industrial Statistics,  
Vol. I. General Industrial Statistics"

UNIDO -- UNIDO, General Industrial Data Base.

NA1 ---- Department of Statistics,  
"Survey of Manufacturing Industries (annual)"  
"Census of Manufacturing Industries (1973, 1981)"

### III. Reference Period:

The period is the calendar year.

### IV. Concepts and Definitions:

For description of concepts and definitions, please refer to the Explanatory Notes on Manufacturing Statistics.

### V. Special Footnote:

The data cover only Peninsular Malaysia.

## COUNTRY: MALAYSIA

2.1 Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1	536	550	580	3053	850		781	804	846	920		3198		
		536	550	580	3053	850	747	781		846	920		3198	1345	
313	Beverages	60	60	60	73	56		40	41	41	43		79		
		60	60	60	73	56	42	40		41	43		79	53	
314	Tobacco	67	70	68	168	116		63	65	68	62		217		
		67	70	68	168	116	73	63		68	62		217	158	
321	Textiles	83	89	109	241	174		182	213	229	251		450		
		75	79	98	240	174	167	182		229	251		450	333	
322	Wearing apparel	63	80	100	218	156		126	154	172	172		2040		
					216	156	116	126		172	172		2040	277	
323	Leather and products	14	14	21	53	23		14	20	18	21		65		
		14	14	21	53	23	13	14		18	18		65	23	
324	Footwear	31	42	58	169	43		19	22	26	29		143		
		31	42	58	169	43	26	19		26	29		143	26	
331	Wood products	498	513	528	1004	617		611	659	684	722		1407		
		498	513	528	1004	617	601	611		684	722		1407	928	



## COUNTRY: MALAYSIA

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	115	115	132	863	191		168	179	189	228		1430		
		131	132	149	863	191	174	168		189	228		1430	496	
341	Paper and products	34	39	49	152	67		67	78	85	96		234		
		34	39	49	152	67	57	67		85	96		234	123	
342	Printing, publishing	275	292	302	475	352		263	266	270	308		732		
		275	292	302	475	352	273	263		270	308		732	422	
351	Industrial chemicals	33	40	44	54	58		70	76	80	84		119		
		33	40	44	54	58	61	70		80	84		119	99	
352	Other chemical products	203	203	212	283	211		113	128	137	159		348		
					283	211	112	113		137	159		348	181	
353	Petroleum refineries	5	4	4	4	4		5	5	5	5		5		
					4	4	5	5		5	5		5	6	
354	Petroleum, coal products	4	6	6	6	6		5	7	6	8		10		
					6	6	6	5		6	8		10	13	
355	Rubber products	a/	51	50	53	561	211		212	229	234	225	547		
		a/	51	50	53	561	211	189	212		234	235	547	343	

a/ from 1970 to 1972, ISIC 355 excludes data for the rubber remilling, rubber latex processing and rubber smokehouses industries.

COUNTRY: MALAYSIA

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	88	93	105	299	173		138	142	157	220		631		
				105	299	173	134	138		157	220		631	312	
361	Pottery, china etc.	18	17	18	49	20		12	15	16	16		49		
		18	17	18	49	20	13	13		16	16		49	19	
362	Glass and products	10	10	11	34	11		10	10	10	11		42		
		10	10	11	34	11	8	10		10	11		42	7	
369	Non-metal products n.e.c.	144	149	165	332	221		181	184	199	239		686		
					332	221	195	181		199	239		686	381	
371	Iron and steel	49	46	58	189	87		89	97	111	119		401		
		49	46	58	189	87	97	89		111	119		401	168	
372	Non-ferrous metals	2	3	4	9	5		8	8	9	13		21		
					9	5	6	8		9	13		21	19	
381	Metal products	217	237	240	1489	314		233	243	251	277		2394		
		201	220	223	1489	314	234	233		251	277		2394	490	
382	Machinery n.e.c.	277	283	309	857	418		266	279	304	348		1445		
		277	283	310	857	418	261	266		304	348		1445	455	

## COUNTRY: MALAYSIA

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	41	64	76	109	137		153	164	169	206		312		
		41	64	76	109	137	121	153		169	206		312	249	
384	Transport equipment	76	78	85	173	122		114	124	128	138		336		
		76	78	85	173	122	101	114		128	138		336	192	
385	Professional goods				26	9		14	14	13	17		39		
					26	9	5	14		13	17		39	18	
390	Other industries <u>a/</u>	198	225	276	121	43		40	37	42	50		400		
					121	43	43	40		44	50		400	79	

a/ from 1970 to 1972, ISIC 390 includes data for the following establishments.

(a) off-estate factories processing tea, rubber and crude coconut oil and

(b) establishments engaged in manufacture of measuring, controlling, laboratory and scientific instruments.

COUNTRY: MALAYSIA

2.2 Employment (Average Number of Persons Engaged)

Unit: THOUSANDS No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1	20.33	21.15	24.07	43.47	35.06	37.81	42.8	44.3	45.9	52.2		67.4		
313	Beverages	2.85	2.88	3.02	3.17	3.08	3.43	3.4	4.2	4.6	5.1		5.6		
314	Tobacco	4.28	4.70	4.53	9.05	6.30	5.93	5.7	6.0	6.1	6.7	11.6			
321	Textiles	8.80	10.88	16.50	22.95	24.21	30.71	34.0	36.4	38.3	37.5		39.8		
322	Wearing apparel	4.48	6.01	8.65	10.81	11.03	11.07	12.0	12.8	15.1	16.4		30.3		
323	Leather and products	0.56	0.86	0.94	0.87	0.70	0.49	0.6	0.8	0.8	0.8		0.9		
324	Footwear	0.91	1.52	1.60	1.98	1.61	1.65	1.5	1.6	1.6	2.3		3.7		
331	Wood products	27.19	30.05	34.81	41.82	38.47		42.6	45.7	47.4	50.9	62.1			
									38.01						

COUNTRY: MALAYSIA

## Employment (Average Number of Persons Engaged)

Unit: THOUSANDS No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	2.32	2.25	2.46	6.59	4.02		4.8	5.0	7.9	7.2		11.8		
							4.68								
341	Paper and products	1.94	2.18	2.28	4.00	3.19		4.0	4.5	4.9	5.9		6.7		
							3.58								
342	Printing, publishing	11.76	11.99	12.76	14.78	14.60		14.4	15.3	16.1	17.7		23.1		
							13.67								
351	Industrial chemicals	1.59	1.68	2.35	2.88	3.46		4.2	4.0	3.8	4.4		5.0		
							3.38								
352	Other chemical products	5.87	6.32	7.00	7.33	7.21		7.3	8.5	8.7	9.5		12.0		
							6.89								
353	Petroleum refineries	0.42	0.44	0.48	0.49	0.51		0.5	0.5	0.5	0.6		0.6		
							0.52								
354	Petroleum, coal products	0.05	0.13	0.12	0.12	0.15		0.1	0.1	0.1	0.1		0.2		
							0.17								
355	Rubber products <u>a/</u>	8.54	8.87	9.21	25.07	26.24		30.3	32.1	30.7	30.2		32.8		
							28.14								

a/ from 1970 to 1972, ISIC 355 excludes data for the rubber remilling, rubber latex processing and rubber smokehouses industries.



COUNTRY: MALAYSIA

Employment (Average Number of Persons Engaged)

Unit: THOUSANDS No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	3.24	3.85	7.92	25.40	10.89		46.5	49.0	60.5	72.8		81.0		
							33.15								
384	Transport equipment	4.92	5.40	5.92	8.81	9.84		11.4	12.4	12.9	15.0		18.4		
							10.90								
385	Professional goods				1.71	1.84		3.1	2.8	3.1	4.0		4.9		
							0.95								
390	Other industries <u>a/</u>	14.90	15.64	19.15	1.91	1.88		3.1	3.5	3.9	4.1		6.9		
							2.88								

a/ from 1970 to 1972, ISIC 390 includes data for the following establishments.

(a) off-estate factories processing tea, rubber and crude coconut oil and

(b) establishments engaged in manufacture of measuring, controlling, laboratory and scientific instruments.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983		
311/2	Food products	UN	19.47	20.28	23.13	37.28	33.84			42.0		45.1	51.4		63.1		
		UNIDO	19	21	23	34	34	37		42	43	45	51				
		NA1	19.48	20.28	23.13	37.24	33.88	36.68			42.0		45.1		63.1	59.3	
313	Beverages		2.79	2.62	2.95	3.07	3.02			3.3		4.6	5.0		5.6		
			3	3	3	3	3	3		3	4	5	5				
			2.79	2.62	2.95	3	3.08	3.41			3.3		4.6		5.6	5.3	
314	Tobacco		4.18	4.68	4.43	8.58	6.08			5.5		6.0	6.6		11.3		
			4	5	4	7	7	6		5	6	6	7				
			4.18	4.68	4.43	8.58	8.20	5.78			5.5		6.0		11.3	11.3	
321	Textiles		8.68	10.77	16.36	22.61	24.12			33.8		36.1	37.3		39.4		
			9	11	16	22	24	31		34	36	36	37				
			8.05	10.18	15.60	22.41	23.87	30.56			33.8		36.1		39.4	36.9	
322	Wearing apparel		4.38	5.87	8.49	10.66	10.76			11.9		14.9	16.1		27.8		
			4	6	8	10	11	11		12	13	15	16				
						10.36	11.03	10.93			11.9		14.9		27.8	24.1	
323	Leather and products		0.53	0.84	0.90	0.76	0.66			0.6		0.8	0.9		0.8		
			1	1	1	1	1	0		1	1	1	1				
			0.53	0.84	0.90	0.76	0.66	0.47			0.6		0.8		0.8	0.6	
324	Footwear		0.83	1.43	1.47	1.64	1.52			1.4		1.6	2.2		3.6		
			1	1	1	1	2	2		1	2	2	2				
			0.83	1.43	1.47	1.64	1.47	1.60			1.4		1.6		3.5	1.4	
331	Wood products		26.54	29.42	34.19	40.38	37.82			42.1		47.0	50.5		61.0		
			27	29	34	40	38	37		42	45	47	50				
			26.54	29.42	34.19	40.39	37.04	37.47			42.1		47.0		61.0	57.4	



## COUNTRY: MALAYSIA

## Employment (Average Number of Employees)

Unit: THOUSANDS No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	2.12	2.08	2.25	5.11	3.75		4.0		7.6	7.0		10.2		
		2	2	2	4	4	4	5	5	8	7				
		2.61	2.75		5.11	3.82	4.48	4.6		7.6			10.2	8.6	
341	Paper and products	1.90	2.15	2.24	3.71	3.14		4.0		4.8	5.8		6.5		
		2	2	2	4	3	4	4	4	5	6				
		1.91	2.15	2.24	3.71	3.08	3.54	4.0		4.8			6.5	6.4	
342	Printing, publishing	11.39	11.58	12.35	14.05	14.16		14.2		16.0	17.6		22.5		
		11	12	12	14	14	13	14	15	16	18				
		11.39	11.58	12.35	14.05	14.27	13.41	14.2		16.0			22.5	20.4	
351	Industrial chemicals	1.57	1.68	2.34	2.85	3.41		4.1		3.7	4.4		4.9		
		2	2	2	3	3	3	4	4	4	4				
		1.57	1.66	2.34	2.85	3.44	3.36	4.1		3.7			4.9	5.0	
352	Other chemical products	5.55	5.99	6.69	6.82	6.88		7.2		8.6	9.4		11.7		
		6	6	7	7	7	7	7	8	9	9				
					6.89	6.82	6.60	7.2		8.6			11.7	11.6	
353	Petroleum refineries	0.42	0.44	0.48	0.49	0.51		0.5		0.5	0.6		0.6		
		0	0	0	0	1	1	0	0	0	1				
					0.49	0.54	0.52	0.5		0.5			0.6	0.8	
354	Petroleum, coal products	0.05	0.13	0.11	0.11	0.15		0.1		0.1	0.1		0.2		
		0	0	0	0	0	0	0	0	0	0				
					0.11	0.15	0.17	0.1		0.1			0.2	0.3	
355	Rubber products	a/	8.50	8.85	9.18	24.42	26.11		30.2		30.7	30.1		32.4	
		21	23	25	24	26	28	28	30	32	31	30			
		a/	8.50	8.85		24.19	26.57	28.07	30.2		30.7			32.4	31.8

a/ from 1970 to 1972, ISIC 355 excludes data for the rubber remilling, rubber latex processing and rubber smokehouses industries.

## COUNTRY: MALAYSIA

## Employment (Average Number of Employees)

Unit: THOUSANDS No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products	4.21	5.13	5.95	8.70	8.17		8.0		11.5	13.0		17.2		
		4	5	6	8	8	7	8	9	11	13		17.2	14.6	
361	Pottery, china etc.	0.28	0.26	0.54	1.00	0.92		1.1		1.8	1.7		2.0		
		0	0	1	1	1	1	1	2	2	2		2.0	2.1	
362	Glass and products	0.79	0.82	1.08	1.49	1.68		1.8		2.1	2.2		2.4		
		1	1	1	1	2	2	2	2	2	2		2.4	2.1	
369	Non-metal products n.e.c.	7.33	8.29	9.21	10.72	10.83		10.6		13.1	15.3		22.0		
		7	8	9	11	11	11	11	12	13	15		22.1	21.2	
371	Iron and steel	3.00	3.00	4.01	6.18	6.13		7.1		8.0	8.0		10.0		
		3	3	4	6	6	7	7	7	8	8		10.0	9.8	
372	Non-ferrous metals	0.32	0.40	0.56	0.68	0.72		1.0		1.2	1.4		1.7		
		0	0	1	1	1	1	1	1	1	1		1.7	3.0	
381	Metal products	8.77	10.64	11.11	17.79	14.50		10.7		16.9	18.6		27.6		
		9	10	11	16	14	13	15	16	17	19		27.6	21.1	
382	Machinery n.e.c.	7.09	7.35	8.22	13.25	12.65		9.5		11.2	13.8		20.1		
		7	7	8	12	13	10	9	11	11	14		20.1	15.4	
		6.64	7.20	8.22	13.25	14.42		9.56		11			20.1	15.4	

## COUNTRY: MALAYSIA

## Employment (Average Number of Employees)

Unit: THOUSANDS No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	3.21	3.79	7.87	25.35	10.62		46.5		60.5	72.7		80.9		
		3	4	8	25	27	33	46	49	60	73				
		3.21	3.79	7.87	25.35	26.68	33.11	46.5		60			80.9	78.3	
384	Transport equipment	4.82	5.31	5.83	8.58	9.70		11.3		12.8	15.0		18.2		
		5	5	6	8	10	11	11	12	13	15				
		4.82	5.31	5.83	8.58	9.84	10.81	11.3		13			18.2	18.5	
385	Professional goods				1.68	1.84		3.1		3.1	4.0		4.9		
		1	1	2	2	2	1	3	3	3	4				
					1.68	1.86	0.95	3.1		3			4.9	4.2	
390	Other industries <sup>a/</sup>	14.52	15.44	18.93	1.73	1.04		3.1		3.9	4.0		6.6		
		1	1	2	2	1	3	3	3	4	4				
					1.73	1.87	2.73	3.1		4			6.6	5.7	

<sup>a/</sup> from 1970 to 1972, ISIC 390 includes data for the following establishments.

(a) off-estate factories processing tea, rubber and crude coconut oil and

(b) establishments engaged in manufacture of measuring, controlling, laboratory and scientific instruments.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products UN UNIDJ NA1	920	949	1034	1892	2729		3636	4417	5033	6926		9675			
		843	885	1034	1812	2727	2950	3636	4417	5033	6926					
		843	886	1034	1892	2727	2950	3636		5033	6926			9675		
313	Beverages	85	87	96	122	135		204	220	270	342		662			
		80	82	96	121	135	176	204	220	270	342					
		80	82	96	122	136	176	204		270	342			662		
314	Tobacco	292	305	295	344	376		450	481	546	576		958			
		275	289	295	340	372	412	450								
		275	289	295	344	376	412	450		546	576			958		
321	Textiles	103	128	196	293	351		780	945	1053	1201		1453			
		100	120	196	291	351	545	780	945	1053	1201					
				196	291	351	545	740		1053	1201			1453		
322	Wearing apparel	37	46	65	110	123		157	179	218	270		557			
		37	46	65	103	123	131	157	179	218	270					
				65	105	123	131	157		218	270			557		
323	Leather and products	8	12	12	11	11		10	15	13	15		26			
		7	9	12	11	11	7	10	15	13	15					
		7	9	12	11	11	7	10		13	15			26		
324	Footwear	10	13	12	18	16		20	21	21	35		127			
		9	12	12	16	16	21	20	21	21	35					
		9	12	12	18	16	21	20		21	35			127		
331	Wood products	346	368	511	825	819		1120	1261	1471	1984		2322			
		332	352	511	816	819	773	1120	1261	1471	1984					
		332	352	511	825	819	773	1120		1471	1984			2322		

## COUNTRY: MALAYSIA

## Gross Output (in factor values)

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures	25	23	24	68	58		60	65	95	121		246			
		25	23	24	51	58	63	60	65	95	121					
		30	30	24	68	58	63	60		95	121		246			
341	Paper and products	35	39	48	63	89		102	127	142	198		321			
		34	39	48	59	89	95	102	127	142	198					
		34	39	48	63	89	95	102		142	198		321			
342	Printing, publishing	157	164	191	238	301		310	370	428	526		846			
		157	164	191	234	301	272	310	370	428	526					
		144	153	191	238	301	272	310		428	526		846			
351	Industrial chemicals	100	101	124	184	285		368	378	422	605		785			
		90	92	124	180	285	355	368	378	422	605					
		90	92	124	184	285	355	368		422	605		785			
352	Other chemical products	218	226	251	218	278		311	380	419	575		824			
		192	204	251	237	276	251	311	380	419	575					
				242	278	251	311		419	575		824				
353	Petroleum refineries	172	197	203	232	629		1007	1101	1251	1694		3579			
		172	197	203	233	629	765	1007	1101	1251	1694					
					233	629	765	1007		1251	1694		3579			
354	Petroleum, coal products	1	3	3	6	7		4	5	5	9		19			
		1	3	3	5	7	6	4	5	5	9					
					5	7	6	4		5	9		19			
355	Rubber products	a/	133	145	154	1154	1340		1637	1738	1970	2397		2917		
			831	790	930	1130	1340	1184	1637	1738	1970	2397				
		a/	120	131	154	1149	1340	1184	1638		1970	2397		2917		

a/ from 1970 to 1972, ISIC 355 excludes data for the rubber remilling, rubber latex processing and rubber smokehouses industries.

## COUNTRY: MALAYSIA

## Gross Output (in factor values)

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	42	54	76	133	142		182	202	274	398		577		
		40	51	76	128	142	121	182	202	274	398				
		39		76	133	142	121	182		274	398		577		
381	Pottery, china etc.	3	3	5	11	14		14	25	27	30		52		
		2	3	5	11	14	12	14	25	27	30				
		2	3	5	11	14	12	14		27	30		52		
362	Glass and products	10	12	15	26	39		64	70	87	94		172		
		10	12	15	25	39	43	64	70	87	94				
		10	12	15	27	39	43	64		87	94		172		
369	Non-metal products n.e.c.	140	157	194	207	268		321	372	472	617		1264		
		136	149	194	205	268	275	321	372	472	617				
					207	268	275	321		472	617		1264		
371	Iron and steel	101	115	141	225	268		308	373	444	505		856		
		97	108	141	224	268	290	308	373	444	505				
		96	109	141	226	268	290	308		444	505		856		
372	Non-ferrous metals	9	12	17	21	33		39	53	61	85		127		
		9	11	17	21	33	27	39	53	61	88				
					21	33	27	39		61	85		127		
381	Metal products	162	196	218	365	408		386	486	616	811		1250		
		148	176	218	344	408	344	386	486	616	811				
					365	408	344	386		616	811		1250		
382	Machinery n.e.c.	81	90	98	206	294		220	291	411	612		964		
		73	78	98	193	294	233	220	291	411	612				
		73	79	98	206	294	233	220		411	612		964		

## COUNTRY: MALAYSIA

## Gross Output (in factor values)

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	100	118	178	411	692		1406	1588	2160	3151		4533		
		92	110	178	411	691	989	1400	1588	2160	3151				
		91	111	178	411	692	989	1406		2160	3151		4533		
384	Transport equipment	130	153	144	234	345		390	450	480	678		1207		
		128	149	144	232	345	328	390	450	480	678				
		127	149	144	234	345	328	390		480	678		1207		
385	Professional goods				23	36		51	63	78	119		171		
		16	15	19	23	36	21	51	63	78	119				
					23	36	21	51		78	119		171		
390	Other industries <u>a/</u>	801	764	806	24	28		65	72	82	98		192		
		15	15	18	23	28	44	65	72	82	98				
					24	28	44	65		82	98		192		

a/ from 1970 to 1972, ISIC 390 includes data for the following establishments.

- (a) off-estate factories processing tea, rubber and crude coconut oil and  
 (b) establishments engaged in manufacture of measuring, controlling, laboratory and scientific instruments.

COUNTRY: MALAYSIA

2.5 Wages and Salaries

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA1	40.11	44.76	47.30	71.89	81.85		128	146	161	205		317		
		40.11	42.37	47.30	71.83	81.85	100.13	128		161	205		317	339	
313	Beverages	8.29	8.42	9.95	10.82	11.53		17	18	22	26		41		
		8.29	8.15	9.95	10.82	11.53	14.53	17		22	26		41	46	
314	Tobacco	11.65	12.83	12.92	15.96	19.64		24	26	27	27		43		
		11.65	12.24	12.92	15.97	19.64	23.13	24		27	27		43	48	
321	Textiles	11.47	14.41	21.20	35.20	46.84		81	93	103	117		181		
		10.82	13.37	20.42	34.87	46.84	61.91	81		103	117		181	167	
322	Wearing apparel	4.35	6.01	9.18	11.91	15.67		21	24	32	40		87		
					11.35	15.87	17.05	21		32	40		87	81	
323	Leather and products	0.66	1.04	1.36	0.95	0.97		1	2	2	2		3		
		0.66	1.00	1.36	0.95	0.98	0.63	1		2	2		3	2	
324	Footwear	1.19	1.79	1.78	2.68	2.67		3	4	3	6		13		
		1.19	1.70	1.78	2.68	2.67	3.44	3		3	6		13	6	
331	Wood products	52.53	58.26	68.22	90.78	103.10		128	149	169	218		311		
		52.53	56.38	68.22	90.78	103.10	104.00	128		169	218		311	324	



## COUNTRY: MALAYSIA

## Wages and Salaries

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	3.51	3.40	4.04	9.56	8.93		11	13	18	23		40		
		4.40	4.25	4.04	9.56	8.93	10.98	11		18	23		40	40	
341	Paper and products	3.24	3.86	4.24	5.64	7.02		10	14	18	20		29		
		3.24	3.80	4.24	5.65	6.75	8.44	10		18	20		29	33	
342	Printing, publishing	27.02	30.68	32.58	38.93	44.29		54	69	78	95		134		
		27.02	30.02	32.58	38.93	44.29	41.38	54		78	95		134	159	
351	Industrial chemicals	6.18	6.88	9.03	12.25	16.88		24	25	25	29		40		
		6.18	6.75	9.03	12.25	16.88	17.99	24		25	29		40	47	
352	Other chemical products	16.12	19.21	21.12	22.58	26.28		30	36	42	54		78		
					22.58	26.28	25.03	30		42	54		78	88	
353	Petroleum refineries	4.74	5.25	5.82	6.24	7.10		7	9	9	10		13		
					6.24	7.10	7.54	7		9	10		13	20	
354	Petroleum, coal products	0.08	0.21	0.25	0.31	0.38		1	1	1	1		1		
					0.31	0.38	0.58	0.5		1	1		1	2	
355	Rubber products	a/	19.50	20.29	21.92	50.06	64.78		88	100	105	118		164	
		a/	19.50	19.77	21.92	52.06	64.78	74.25	88		105	118		164	178

a/ from 1970 to 1972, ISIC 355 excludes data for the rubber remilling, rubber latex processing and rubber smokehouses industries.

## COUNTRY: MALAYSIA

## Wages and Salaries

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	5.02	7.88	8.89	12.69	15.61		21	23	30	41		64		
				8.89	12.69	15.61	15.64	21		30	41		64	62	
361	Pottery, china etc.	0.54	0.54	1.22	1.97	2.17		3	4	5	5		9		
		0.54	0.51	1.22	1.97	2.17	1.99	3		5	5		9	10	
362	Glass and products	2.18	2.58	2.42	3.25	6.30		8	9	11	12		16		
		2.18	2.54	2.42	3.25	6.30	6.70	8		11	12		16	18	
369	Non-metal products n.e.c.	16.51	19.84	21.71	26.95	31.94		38	45	56	71		118		
					26.95	31.66	35.56	38		56	71		118	140	
371	Iron and steel	8.57	9.30	11.39	18.84	21.58		31	36	40	43		72		
		8.57	9.12	11.39	18.40	21.58	25.68	31		40	43		72	74	
372	Non-ferrous metals	1.13	1.49	1.96	2.53	3.18		5	6	8	9		13		
		1.13	1.47	1.97	2.53	3.18	4.30	5		7	9		13	27	
381	Metal products	18.15	24.26	24.62	36.30	39.58		45	50	60	74		137		
		17.26	22.32	24.62	36.30	39.58	37.69	45		60	74		137	129	
382	Machinery n.e.c.	14.30	16.41	18.19	28.66	39.37		33	40	45	66		111		
		13.80	15.78	17.05	28.66	39.37	31.06	33		45	66		111	103	

COUNTRY: MALAYSIA

## Wages and Salaries

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	8.49	10.69	15.25	41.46	65.78		133	157	197	265		390		
		8.49	10.44	15.25	41.46	65.78	94.01	133		197	265		390	460	
384	Transport equipment	12.84	14.65	16.63	22.69	32.53		48	58	67	77		136		
		12.86	14.12	16.63	22.69	32.53	35.90	48		67	77		136	144	
385	Professional goods				2.95	5.88		10	11	14	18		28		
					2.95	5.88	3.83	10		14	18		28	24	
390	Other industries <u>a/</u>	25.77	29.07	36.17	2.32	3.42		8	10	13	14		25		
					2.32	3.42	6.80	8		13	14		25	25	

a/ from 1970 to 1972, ISIC 390 includes data for the following establishments.

- (a) off-estate factories processing tea, rubber and crude coconut oil and  
 (b) establishments engaged in manufacture of measuring, controlling, laboratory  
 and scientific instruments.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products UN UNIDO NA1	204	188	189	305	477		737	1000	1101	1313					
		190	178	189	347	477	643	737	1000	1101	1313					
		190	182	189	364	477	643	737		1101	1313					
313	Beverages	44	46	47	61	60		107	104	132	165					
		43	45	47	61	60	91	107	104	132	165					
		43	45	47	61	60	91	107		132	165					
314	Tobacco	86	91	90	130	114		130	127	148	175					
		85	90	90	130	113	99	130	127	148	175					
		85	90	91	130	114	99	130		148	175					
321	Textiles	28	38	58	105	106		251	301	346	390					
		27	37	58	104	106	179	251	301	346	390					
		27	36	58	104	106	179	251		346	390					
322	Wearing apparel	10	14	19	31	32		45	55	70	86					
		10	14	19	29	32	37	45	55	70	86					
		11	14	19	29	32	37	45		70	86					
323	Leather and products	2	2	2	3	3		2	5	5	5					
		2	2	2	3	3	2	2	5	5	5					
		2	2	2	3	3	2	2		5	5					
324	Footwear	2	5	4	6	6		7	8	7	14					
		2	5	4	5	6	10	7	8	7	14					
		2	5	4	6	6	10	7		7	14					
331	Wood products	118	123	177	304	280		347	409	514	668					
		118	120	177	301	280	246	347	409	514	668					
		118	121	177	304	280	246	347		514	668					

## COUNTRY: MALAYSIA

## Value Added (in factor values)

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	7	7	7	19	20		23	24	37	46				
		7	7	7	14	20	24	23	24	37	46				
		9	10	10	19	20	24	23		37	46				
341	Paper and products	10	12	13	18	27		27	40	47	64				
		9	11	13	17	27	32	27	40	47	64				
		10	11	13	18	27	24	27		47	64				
342	Printing, publishing	76	80	96	114	142		134	177	207	241				
		73	78	96	113	142	127	134	177	207	241				
		73	78	96	115	142	127	134		207	241				
351	Industrial chemicals	36	32	41	61	77		124	121	133	177				
		35	29	41	61	77	108	124	121	133	177				
		35	29	41	61	77	108	124		133	177				
352	Other chemical products	80	81	103	98	110		105	153	169	232				
		75	77	103	113	110	87	105	153	169	232				
					113	110	87	105		169	232				
353	Petroleum refineries	42	43	45	49	48		125	87	175	241				
		42	40	45	50	48	86	125	87	175	241				
					50	48	86	125		175	241				
354	Petroleum, coal products		1	2	2	3		1	2	2	3				
		0.4	1	2	2	3	1	1	2	2	3				
					2	3	1	1		2	3				
355	Rubber products	a/	53	65	72	222	352		432	484	526	657			
			178	194	213	219	352	332	432	484	526	657			
		a/	51	63	72	222	352	332	432		526	657			

a/ from 1970 to 1972, ISIC 355 excludes data for the rubber remilling, rubber latex processing and rubber smokehouses industries.

COUNTRY: MALAYSIA

Value Added (in factor values)

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
356	Plastic products n.e.c.	14	19	28	44	49		48	64	96	129					
		14	18	28	43	49	38	48	64	96	129					
		14	19	28	44	49	38	48		96	129					
361	Pottery, china etc.	2	2	3	6	8		8	14	13	16					
		1	2	3	6	8	8	9	14	13	16					
		1	2	3	6	8	8	9		13	16					
362	Glass and products	4	5	7	12	13		30	36	48	43					
		4	5	7	11	13	15	30	36	48	43					
		4	5	7	12	14	15	30		48	43					
369	Non-metal products	75	83	107	104	122		115	154	209	275					
		75	81	107	103	122	108	115	154	209	275					
					104	122	108	115		209	275					
371	Iron and steel	30	36	46	76	86		92	120	150	145					
		30	34	46	75	86	90	92	120	150	145					
		30	35	46	76	86	90	92		150	145					
372	Non-ferrous metals	3	4	4	10	12		10	16	17	26					
		3	4	4	10	12	7	10	16	17	26					
		3			10	12	7	10		17	26					
381	Metal products	49	61	55	114	126		127	160	199	256					
		47	58	55	107	126	112	127	160	199	256					
		45	55	55	114	126	112	127		199	256					
382	Machinery n.e.c.	30	35	43	87	114		76	111	154	209					
		30	33	43	82	114	94	76								
		31	33	44	87	114	94	76		154	209					

## COUNTRY: MALAYSIA

## Value Added (in factor values)

Unit: MILLION RINGGITS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	34	41	72	188	259		425	464	572	843				
		33	40	72	188	259	334	425							
		33	40	72	188	259	334	425		572	843				
384	Transport equipment	36	38	41	62	88		108	154	161	239				
		36	38	41	61	88	90	108							
		36	38	41	62	88	90	108		161	239				
385	Professional goods				10	19		19	28	37	50				
		6	7	9	10	15	7	19	28	37	50				
					10	15	7	19		37	50				
390	Other industries <sup>a/</sup>	134	158	156	7	0		22	22	30	35				
		5	6	7	8	9	18	22	22	30	35				
					8	9	18	22		30	35				

<sup>a/</sup> from 1970 to 1972, ISIC 390 includes data for the following establishments.

(a) off-estate factories processing tea, rubber and crude coconut oil and

(b) establishments engaged in manufacture of measuring, controlling, laboratory and scientific instruments.

COUNTRY: MALAYSIA

2.7

## Gross Fixed Capital Formation

Unit: MILLION RINGGITTS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products	UN	17.50	23.02	26.83	80.42	130.10			110		118	227			
		UNIDO NA1	17.50	23.02	26.83	80.42	130.10			110		118	227			
313	Beverages		3.11	2.76	3.91	2.06	21.44			9		27	19			
			3.11	2.76	3.91	2.06	21.44			9		27	19			
314	Tobacco		8.39	3.89	4.57	9.83	25.55			18		25	33			
			8.39	3.89	4.57	9.83	25.55			18		25	33			
321	Textiles		7.14	24.44	52.11	71.92	125.94			41		41	72			
			7.14	24.44	52.11	71.92	125.94			41		41	72			
322	Wearing apparel		1.00	5.51	3.70	11.09	6.03			6		11	9			
			1.00	5.51	3.70	11.09	6.03			6		11	9			
323	Leather and products		0.79	0.87	0.34	0.39	0.29			2		1	1			
			0.79	0.87	0.34	0.39	0.29			2		1	1			
324	Footwear		0.56	0.92	0.71	0.55	1.75			1		1	2			
			0.56	0.92	0.71	0.55	1.75			1		1	2			
331	Wood products		39.57	31.45	47.74	74.30	78.71			74		84	102			
			39.57	31.45	47.74	74.30	78.71			74		84	102			



COUNTRY: MALAYSIA

## Gross Fixed Capital Formation

Unit: MILLION RINGGITTS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	0.59	0.81	0.77	3.43	4.53		4		10	9				
		0.59	0.81	0.77	3.43	4.53		4		10	9				
341	Paper and products	3.25	3.78	3.27	4.81	9.38		10		12	10				
		3.25	3.78	3.27	4.81	9.38		10		12	10				
342	Printing, publishing	9.87	8.29	14.58	19.66	27.76		20		29	36				
		9.87	8.29	14.58	19.66	27.76		20		29	36				
351	Industrial chemicals	2.92	8.56	8.14	13.82	35.31		25		17	35				
		2.92	8.56	8.14	13.82	35.31		25		17	35				
352	Other chemical products	10.83	10.34	9.92	11.87	18.53		10		16	30				
		10.83	10.34	9.92	11.87	18.56		10		16	30				
353	Petroleum refineries	5.89	5.40	5.13	17.10	32.37		5		11	7				
		5.89	5.40	5.13	17.10	32.37		5		11	7				
354	Petroleum, coal products	0.05	0.29	0.14	0.18	0.69									
		0.05	0.29	0.14	0.18	0.69									
355	Rubber products <u>a/</u>	8.57	8.45	4.55	47.89	78.39		52		46	65				
		8.57	8.45	4.55	47.89	78.39		52		46	65				

a/ from 1970 to 1972, ISIC 355 excludes data for the rubber remilling, rubber latex processing and rubber smokehouses industries.

COUNTRY: MALAYSIA

## Gross Fixed Capital Formation

Unit: MILLION RINGGIT.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products	7.57	11.99	8.19	13.94	20.26		19		28	32				
		7.57	11.99	8.19	13.94	20.26		19		28	32				
361	Pottery, china etc.	0.07	0.13	0.26	1.15	5.07		1		5	6				
		0.07	0.13	0.26	1.15	5.07		1		5	6				
362	Glass and products	3.42	3.42	3.76	15.23	1.69		2		17	23				
		3.42	3.42	3.76	15.23	1.69		2		17	23				
369	Non metal products n.e.c.	6.94	9.53	10.62	42.18	73.70		21		40	50				
		6.94	9.53	10.62	42.18	73.70		21		40	50				
371	Iron and steel	6.12	6.12	15.69	13.99	24.86		14		9	17				
		6.12	6.12	15.69	13.99	24.86		14		9	17				
372	Non-ferrous metals	2.57	1.64	1.06	1.27	3.21		1		3	14				
		2.57	1.64	1.06	1.27	3.21		1		3	14				
381	Metal products	8.70	21.93	12.86	19.66	33.06		22		33	28				
		8.70	21.93	12.86	19.66	33.06		22		33	28				
382	Machinery n.e.c.	2.30	3.51	4.18	28.81	40.28		11		21	31				
		2.30	3.51	4.18	28.81	39.08		11		21	31				

## COUNTRY: MALAYSIA

## Gross Fixed Capital Formation

Unit: MILLION RINGGITTS

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	11.11	11.46	13.86	58.92	99.98		80		103	178				
		11.11	11.46	13.86	58.92	101.19		80		103	178				
384	Transport equipment	3.97	2.99	5.50	9.14	24.85		38		37	22				
		3.97	2.99	5.50	9.14	24.85		38		37	22				
385	Professional goods				5.55	7.74		4		5	4				
					5.55	4.18		4		5	4				
390	Other industries <u>a/</u>	14.47	13.85	37.56	0.93	3.82		6		10	6				
					0.93	7.38		6		10	6				

a/ from 1970 to 1972, ISIC 390 includes data for the following establishments.  
 (a) off-estate factories processing tea, rubber and crude coconut oil and  
 (b) establishments engaged in manufacture of measuring, controlling, laboratory  
 and scientific instruments.

COUNTRY: MALAYSIA

2.8

Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN	85	82	85	96	94	100	115	119	126	131	136	134	133
		UNIDO NA1	85	81	85	95	94	100	114	119	126	131	136	134	
313	Beverages		71	70	74	92	106	100	116	134	158	188	205	191	186
			71	70	74	92	106	100	116	135	158	188	205	191	
314	Tobacco		72	74	78	93	100	100	104	113	115	124	124	126	129
			72	74	78	93	101	100	104	113	115	124	124	126	
321	Textiles	a/	54	57	73	92	66	100	141	147	172	171	176	179	170
			53	57	73	92	66	100	141	147	172	171	176	179	
322	Wearing apparel	a/													
			53	57	73	92	66	100	141	147	172	171	176	179	
323	Leather and products		65	121	128	98	102	100	110	117					
324	Footwear		80	85	95	71	82	100	111	117	112	98	101	97	
331	Wood products		81	74	97	107	98	100	139	151	144	147	151		
			81	81	98	113	100	100	137	146	135	135	135	135	

a/ 322 is included in 321.

COUNTRY: MALAYSIA

## Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	81	81	93	113	106	100	137	146	135	135	135	135		
341	Paper and products	69	76	86	107	105	100	136	140	161	190	214	242	229	
		69	76	86	108	106	100	135	140	161	190	214	242		
342	Printing, publishing	87	91	100	95	102	100	110	117						
351	Industrial chemicals	a/ 77	79	93	107	113	100	114	117	132	152	162	168	145	
		87	86	104	113	119	100	110	108	122	144	153	159		
352	Other chemical products	a/ 72	75	89	105	112	100	116	122	137	157	167	173		
353	Petroleum refineries	121	117	107	99	93	100	105	104	100	113	120	125		
354	Petroleum, coal products	84	78	82	84	86	100	128	143	160	168	164	159	212	
		85	78	82	85	86	100	128	144	160	168	164	159		
355	Rubber products	76	80	85	102	98	100	113	119	118	119	124	136	118	
		76	80	85	102	98	100	113	119	118	119	124	136		

a/ 352 is included in 351.

## COUNTRY: MALAYSIA

## Index Numbers of Industrial Production(1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.														
361	Pottery, china etc.	73 74	74 74	80 80	91 91	96 96	100 100	118 118	122 122	152 152	161 161	173 173	200 200	199	
362	Glass and products														
369	Non-metal products n.e.c.														
371	Iron and steel	61 60	73 72	84 85	99 98	104 102	100 100	106 105	125 124	140 141	138 138	158 158	158 158	170	
372	Non-ferrous metals	79	83	82	110	135	100	134	142	127	159	182	182		
381	Metal products	71 70	76 76	92 92	130 130	144 144	100 100	112 111	125 125	157 157	159 159	174 174	205 205	204	
382	Machinery n.e.c.	70	76	92	130	144	100	111	125	157	159	174	205		



III.      Convertor between ISIC and MIC  
          (Malaysia Industrial Classification)



Converter between the ISIC AND the MIC

ISIC	MIC 1972	MIC 1967
3111	31110	3011, 3012
3112	31121 31129	3021 3022, 3029
3113	31131 31139	3031 3032, 3030
3114	31140	3041, 3042, 3043
3115	31151 31152	1331, 4121 1220
3116	31161 31162 31163 31164 31169	3051 3153, 3055 3052, 3059 3054 3059
3117	31171 31172	3061 3062
3118	31180	3070
3119	31190	3080
3121	31211 31212 31213 31214 31215 31216 31219	3097 1520, 3096 1420 3091 3093 3099 3094, 3095, 3099
3122	31220	3098
3131	31310	3110
3132	31321	3120
3133	31330	3130
3134	31340	3140
3140	31400	3200
3211	32111 32112 32113 32114 32115 32119	3311 3312, 3313 3314 3315 3316 3319
3212	32120	3440
3213	32130	3320
3214	32140	3319

3215	32150	3330
3219	32190	3390
3220	32201 32202 32209	3432 3431 3433, 3439
3231	32310	3910
3232	32320	3920
3233	32330	3930
3240	32400	3411
3311	33111 33112 33113 33114 33119	3511 3512 3513 3516 3515
3312	33120 33190	3521, 3522, 3531, 3532 3412, 3514, 3591, 3592, 3599
3320	33200	3611, 3612, 3621, 3622, 3630, 3640, 3690, 4030
3411	34110	3710
3412	34120	3721
3419	34190	3722, 3729
3420	34200	3810, 3821, 3822, 3830
3511	35110	4111, 4112, 4119
3512	35120	4113, 4119
3513	35130	4114
3521	35210	4130
3522	35220	4192, 4193
3523	35231 35239	4191 4194
3529	35290	4115, 4195, 4196, 4199
3530	35300	4210
3540	35400	4290
3551	35510	4021, 4022

3559	35591 35592 35593 35599	1121, 1123 1122 4010 4030, 4090
3560	35600	4940, 3411
3610	36100	4330
3620	36200	4320
3691	36910	4310
3692	36921 36922	4340 4392
3699	36991 36992 36999	4350 4391 4399
3710	37101 37102 37109	4410 4421 4429
3720	37201 37209	4430 4450, 4460
3811	38111 38112	4541, 4542 4562, 4581
3812	38120	3613, 3623, 3690
3813	38130	4510, 4520, 4550
3819	38191 38192 38193 38199	4561 4530 4563 4569, 4582, 4590
3821	38210	4620, 4630
3822	38220	4610, 3630
3823	38230	4620, 4630
3824	38240	4620
3825	38250	4641, 4649
3829	38291 38299	4651, 4659 4620, 4630, 4641, 4649
3831	38310	4741, 4749, 4799
3832	38320	4731, 4739, 4922, 4799
3833	38330	4721

3839	38391 38392 38393 38399	4791, 4799 4711 4791, 4799 4791, 4799
3841	38410	4811, 4812, 4813, 4814
3842	38420	4821, 4822
3843	38431 38432 38439	4813 4832 4834
3844	38441 38449	4854, 4855 4851, 4852, 4853
3845	38450	4860
3849	38490	4890
3851	38510	4961, 4962, 4963
3852	38520	4970
3853	38530	4980
3901	39010	4910
3902	39020	4922
3903	39030	4932
3909	39091 39092 39099	4991 4993 3523, 4932, 4950, 4992, 4995, 4999

#### IV. Commodity Balance Sheets

1. Palm oil (crude)
2. Coconut oil (crude and refined)
3. Flour, wheat
4. Refined sugar
5. Beer
6. Soft drinks
7. Cigarettes
8. Socks and other stockings
9. Underwear - men's and boy's
10. Plywood
11. Printers' ink
12. Candles
13. Distillate fuel oils
14. Tyres & tubes
15. Tiles, roofing, made of clay
16. Cement
17. Tin, unwrought
18. Structural shapes and complete steel structures
19. Iron and steel drums
20. Refrigerators, for household use
21. Television receivers
22. Passenger cars

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).

### V. Special Footnote:

Production data cover only Peninsular Malaysia, but trade data cover Sabah and Sarawak as well as Peninsular Malaysia.

QUANTITY UNIT CODEAppendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL*	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG*	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL*	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS*	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX*	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN*	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT*	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SFN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS	SMM	SQUARE METRES		
FLN	FLASKS	SMN	SQUARE METRES		
FTN	FEET	SPM	NUMBER OF SPINDLES		
GIN	IMPERIAL GALLONS	STN	SHORT TONS		
GPN	PROOF GALLONS				
GRN	GROSS				

Note: The codes put on "\*" are prepared by IDE.

CUURENCY UNIT CODE

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KOREA REPUBLIC
M\$	RINGGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHILIPPINES
S\$	Singapore Dollar(s)	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA



List of Data Sources

Source No.

1. UN, "Yearbook of Industrial Statistics, Vol. I. General Industrial Statistics"
2. UN, "Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics"
3. ESCAP, "Statistical Yearbook"
4. AIDXT (International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base.
7. UNIDO, Production Index Data Base.
8. UN, "Yearbook of International Trade Statistics"
9. UN, "Statistical Yearbook"
- 10.
11. Department of Statistics, "Monthly Statistical Bulletin, Peninsular Malaysia"
12. Department of Statistics, "Malaysia Annual Statistics of External Trade"
13. Ministry of Agriculture, "Statistical Digest"
14. Ministry of Agriculture, "Statistical Handbook, Agriculture"
15. Department of Statistics, "Rubber Statistics Handbook"
16. Department of Statistics, "Monthly Industrial Statistics, Peninsular Malaysia"
17. Department of Statistics, "Annual Statistical Bulletin"
18. Department of Statistics, "Industrial Surveys, Peninsular Malaysia"
19. Department of Statistics, "Census of Manufacturing Industries"

Country: Malaysia

Commodity: Palm oil (crude)

ISIC Code	311534*							Note:
NSIC Code	31152							
SITC Code	422.2							
NSTC Code								
	Quantity				Value			
Source	11		11	11		13		
	Production	Shipment	Export	Import	Production	Shipment	Export	
Unit	1000TM		1000TM	1000TM		1000M\$	Import	
1970	396.0		367.4	1.6		246200		
1971	550.8		526.8	4.0		356000		
1972	657.0		615.4	0.4		325200		
1973	739.3		713.3	0.1		428100		
1974	942.3		813.0	0.6		979300		
1975	1136.8		829.2	1.1		961403		
1976	1260.6		749.1	-		674547		
1977	1483.6		577.5	-		699161		
1978	1640.0		831.0	-		-		
1979	2032.9		703.8	-		-		
1980	2396.7		619.7	10.6		-		
1981	2645.2		903.5	15.6		-		
1982	3252.9		1094.4	101.1		-		
1983	2782.9		-	-		-		
1984	-		-	-		-		

Country: Malaysia

Commodity: Coconut oil (crude and refined)

ISIC Code	311534	311537							Note:
NSIC Code	31151								
SITC Code	422.3								
NSIC Code									
	Quantity				Value				
Source	11	11	11	11	11	11.12			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN	TN	TN	TN		1000M\$	1000M\$		
1970	100340	-	41849	2795		-	39300		
1971	93964	-	38208	1966		-	33600		
1972	91482	25567	24856	4634		21102	15500		
1973	77058	25468	27429	2876		31724	29500		
1974	66176	19846	43658	527		46092	101200		
1975	74792	13800	35745	736		15552	40200		
1976	72627	12711	31179	567		15001	32200		
1977	66980	12656	25028	1065		19649	43400		
1978	54427	6920	19564	372		11954	33800		
1979	61755	9985	60557	371		22252	138500		
1980	63689	8698	58265	263		14669	100100		
1981	64424	8311	60177	406		11852	84500		
1982	68864	10984	55779	210		12156	-		
1983	63266	7447	59981	231		11459	-		
1984	-	-	-	-		-	-		

Country: MalaysiaCommodity: Flour, wheat

ISIC Code	311601								Note: a/ Currency unit used is 1000 Ringgits.  b/ Currency unit used is 1000 US\$.
NSIC Code	31163								
SITC Code	048.01								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4		11	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM		1000\$ <sup>a/</sup>	1000\$ <sup>b/</sup>	1000\$ <sup>b/</sup>	
1970	-	-	10184	26978		-	860	2196	
1971	-	-	982	22099		-	116	2215	
1972	230772	-	1514	23676		-	177	2337	
1973	255415	-	2095	26858		-	381	4477	
1974	242840	-	4	14526		-	3	4612	
1975	231318	-	1	16325		-	0	4653	
1976	265232	265304	4584	18863		162054	272	4897	
1977	289484	286667	5204	21954		155565	983	4455	
1978	311383	312124	10441	24489		159282	2078	4850	
1979	300579	299715	6778	27405		172081	1742	5810	
1980	307521	312446	10892	25521		205867	2928	6162	
1981	313971	313191	13584	8631		223780	3995	1857	
1982	332690	329838	11741	326		238059	3442	106	
1983	343894	305521	-	-		244047	-	-	
1984	-	-	-	-		-	-	-	

Country: Malaysia

Commodity: Refined sugar

ISIC Code 311304									Note:
NSIC Code 31180									
SITC Code 061.2									
NSTC Code									
Source	Quantity				Value				
	11	11	4	4	11	4	4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM	TM	TM	TM		1000M\$	1000\$	1000\$	
1970	-	-	1902	267427		-	228	24940	
1971	-	-	5016	221628		-	764	25280	
1972	-	-	9428	273734		-	1798	38558	
1973	-	-	8470	159668		-	2381	30032	
1974	336296	342452	11008	244140		268723	5936	72207	
1975	366061	359633	31840	198455		365806	17905	59036	
1976	372301	370361	30784	221262		376096	11126	68903	
1977	389441	417263	20308	202002		417792	5987	53687	
1978	421777	407367	16332	1150		407426	4225	264	
1979	437103	422676	14975	20		424778	4236	15	
1980	-	-	14139	8503		-	7470	7279	
1981	462071	461389	50837	2503		679974	29959	2615	
1982	471878	473849	28626	1		601219	8794	1	
1983	583809	545537	-	-		611137	-	-	
1984	-	-	-	-		-	-	-	

Country: Malaysia

Commodity: Beer

ISIC Code	313304								Note: a/ Unit used is KLM for 1970-1977 and TM for 1978-1982.
NSIC Code	31330								
SITC Code	112.3								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	KLM	KLM	KLM a/	KLM a/	1000M\$	1000\$	1000\$	1000\$	
1970	-	-	5233	4900	-	1746	1646		
1971	-	-	5584	6299	-	1752	2060		
1972	39644	37423	6709	3488	48246	2069	1035		
1973	55788	54116	8159	1745	63323	3219	683		
1974	66910	65712	8698	2323	81704	3882	932		
1975	60974	61995	8018	3383	84301	3714	1277		
1976	71149	70174	8752	2982	101761	3907	1056		
1977	76665	76140	10219	3325	124824	4654	1222		
1978	88306	87278	9787	3059	142738	5438	1236		
1979	107216	105155	11496	3185	174288	6910	1347		
1980	119947	119721	10732	3893	217361	7087	1868		
1981	117558	116303	9735	2995	241589	7390	1730		
1982	118061	115601	7231	4714	259217	5869	2622		
1983	95351	96351	-	-	250078	-	-		
1984	-	-	-	-	-	-	-		

Country: MalaysiaCommodity: Soft drinks

ISIC Code	313401, 313404								Note:
NSIC Code	31340								
SITC Code	111.0								
NSTC Code									
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	KLH		TM	TM			1000\$	1000\$	
1970	87615		-	-			172	532	
1971	80546		-	-			67	569	
1972	91348		-	-			86	588	
1973	96148		-	-			250	1046	
1974	103349		-	-			148	1463	
1975	105581		-	-			339	1231	
1976	119055		-	-			695	1694	
1977	159127		-	-			935	3177	
1978	193876		3461	9150			1043	4300	
1979	235719		6938	27125			2043	4824	
1980	248817		16693	13371			5416	7083	
1981	-		14094	14331			4706	7403	
1982	-		8682	17094			2633	9527	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Malaysia

Commodity: Cigarettes

ISIC Code	314007								Note:
NSIC Code	31400*								
SITC Code	122.2								
NSIC Code	122201								
	Quantity				Value				
Source	11	11	4	4		11	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN	TN	TN	TN		1000\$	1000\$	1000\$	
1970	7445	7259	1759	2469		248894	4457	7269	
1971	7718	7446	1960	3149		256169	4868	11576	
1972	8206	7892	2729	2791		270522	6356	8605	
1973	9718	9217	1412	1176		313788	4908	6463	
1974	10639	10405	1773	2542		383926	5847	11130	
1975	10848	10506	1875	2371		442387	6812	10800	
1976	11289	11070	1793	2251		505665	5566	9280	
1977	12257	11597	1143	1958		551392	3166	7958	
1978	12464	12078	26	1829		601886	266	10526	
1979	13479	12865	37	3542		642140	529	17870	
1980	13529	13056	31	2891		578021	309	21562	
1981	13744	13531	39	2946		719608	688	24829	
1982	14054	13558	8	3212		805424	112	27984	
1983	13502	12622	-	-		856949	-	-	
1984	-	-	-	-		-	-	-	



Country: MalaysiaCommodity: Socks and other stockings

ISIC Code	321304, 321307								Note:
NSIC Code	32130								
SITC Code	841.42								
NSTC Code									
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000PRM		1000PRM	1000PRM			1000\$	1000\$	
1970	-		135	2210			18	548	
1971	-		303	1955			43	527	
1972	4116		878	1634			118	443	
1973	4398		906	2137			141	708	
1974	4067		61	2089			35	742	
1975	5688		1494	1682			810	540	
1976	9233		-	-			1258	472	
1977	11963		-	-			4064	816	
1978	15871		-	-			7133	541	
1979	15577		-	-			7501	774	
1980	16646		-	-			7743	1343	
1981	16526		-	-			7843	1737	
1982	19725		-	-			8610	1662	
1983	19100		-	-			-	-	
1984	-		-	-			-	-	

Country: Malaysia

Commodity: Underwear - men's and boy's

ISIC Code	322037								Note:
NSIC Code									
SITC Code	841.13								
NSTC Code									
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOM		1000NOM	1000NOM			1000\$	1000\$	
1970	-		3030	772			2747	706	
1971	-		2650	504			2459	583	
1972	2974		4179	553			4375	678	
1973	6357		6046	337			9181	695	
1974	4963		5403	458			10284	1350	
1975	4590		7955	731			14798	1694	
1976	5282		-	-			13318	1170	
1977	5373		-	-			12430	2841	
1978	5425		6283	1066			14917	2378	
1979	6335		8362	1777			24262	3777	
1980	6119		7982	1105			25069	2951	
1981	7055		8946	1807			24572	4455	
1982	6198		8764	1822			26802	4500	
1983	5029		-	-			-	-	
1984	-		-	-			-	-	

Country: Malaysia

Commodity: Plywood

LCIC Code	331116								Note:
NSIC Code	33112*								
SITC Code	631.2								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000SMH	1000SMH	1000SMH	1000SMH	1000M\$	1000\$	1000\$		
1970	388423	354900	29742	816	55380	15947	861		
1971	490409	453111	39532	812	67254	19732	685		
1972	720508	643417	56907	351	90881	28559	449		
1973	814164	773011	75574	508	160103	65536	667		
1974	570980	569955	43867	829	123871	42577	1084		
1975	63064	62237	50069	575	119859	40425	770		
1976	89857	90815	83146	646	208079	74384	739		
1977	89582	87267	66192	1082	204781	64625	1262		
1978	97307	96123	-	-	235236	90298	2545		
1979	95340	90420	-	-	290113	130136	3048		
1980	95227	94518	-	-	300242	133702	3762		
1981	108951	107124	-	-	348770	135727	7404		
1982	117643	115822	-	-	336958	115605	8442		
1983	132091	127422	-	-	363543	-	-		
1984	-	-	-	-	-	-	-		



Country: Malaysia

Commodity: Candles

ISIC Code	3529*								Note:
NSIC Code									
SITC Code	899.31								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000M\$	1000\$	1000\$		
1970	794	784	8	389	524	3	105		
1971	869	871	23	360	635	6	111		
1972	940	937	9	327	648	2	108		
1973	1223	1223	7	321	822	4	167		
1974	1319	1321	4	460	1100	2	230		
1975	1578	1580	6	418	1260	4	232		
1976	1926	1867	447	477	2420	436	231		
1977	2638	2613	718	503	4810	397	335		
1978	2139	2146	251	429	4970	410	314		
1979	2450	2479	771	560	5948	1621	439		
1980	3723	3448	1482	1208	8218	2432	980		
1981	3146	2882	703	1448	7285	1609	1272		
1982	2740	2706	1157	1494	9000	2832	1246		
1983	2307	2379	-	-	7593	-	-		
1984	-	-	-	-	-	-	-		

Country: Malaysia

Commodity: Distillate Fuel Oils

ISIC Code	353019								Note:
NSIC Code									
SITC Code	3323								
NSTC Code									
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	850000		288885	734313			6879	14815	
1971	783000		226218	684096			6057	19587	
1972	914000		257277	952823			6353	27254	
1973	358000		147945	783743			5015	29469	
1974	993000		15688	818389			1369	73219	
1975	1314000		23138	616747			2440	65113	
1976	1666000		28827	473717			3255	53151	
1977	1689000		13648	571946			1656	69744	
1978	1700000		2598	690527			325	82483	
1979	1780000		6406	1609490			1054	129196	
1980	1850000		6549	1650260			1898	281303	
1981	1920000		10	1222340			7	414924	
1982	-		2767	1409290			877	473299	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: MalaysiaCommodity: Tyres and Tubes

ISIC Code	3551								Note:
NSIC Code	35510								
SITC Code	629.1								
NSTC Code									
	Quantity				Value				
Source	11		4	4		11	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON	NON	NON	NON		1000M\$	1000\$	1000\$	
1970	-	-	-	-		54643	1719	2100	
1971	-	-	-	-		57231	2313	1919	
1972	8060	8229	-	-		65979	2327	1662	
1973	10200	9890	-	-		81303	2444	3605	
1974	9241	8821	-	-		106683	4223	6121	
1975	8123	8653	-	-		116409	7278	4922	
1976	9391	9289	-	-		154801	6381	4816	
1977	10131	9857	-	-		174480	5813	5658	
1978	10431	9994	880178	543149		200486	9365	6828	
1979	10756	10327	1061100	580650		235494	8338	10318	
1980	10803	11019	1109340	754312		299396	6740	15924	
1981	11868	11227	925738	693307		350420	6199	17913	
1982	10676	10669	348798	1001480		-	4991	18986	
1983	10280	10196	-	-		-	-	-	
1984	-	-	-	-		-	-	-	

Country: MalaysiaCommodity: Tiles, roofing, made of clay

SIC Code	389104								Note:
NSIC Code	36910*								
SITC Code	662.42								
NSIC Code									
	Quantity				Value				
Source	11	11	4	4		11	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000PN	1000PN	TM	TM		1000M\$	1000\$	1000\$	
1970	14611	13573	20	114		2643	2	11	
1971	14470	14457	96	87		2733	8	13	
1972	20442	20411	158	8		3953	12	7	
1973	27292	24670	11	6		5518	2	2	
1974	24435	22986	15	135		6339	4	29	
1975	23934	21362	72	178		6647	9	49	
1976	21074	20899	60	41		6034	5	11	
1977	22987	22386	60	42		6539	8	15	
1978	36274	34962	48	129		12134	16	54	
1979	43849	41372	40	69		16775	4	26	
1980	57042	52378	69	188		24957	46	92	
1981	51904	40034	16	91		28608	13	63	
1982	45026	42019	20	751		26394	9	312	
1983	46572	43933	-	-		27438	-	-	
1984	-	-	-	-		-	-	-	



Country: Malaysia

Commodity: Cement

ISIC Code	369204								Note:
NSIC Code	36921								
SITC Code	681.2								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4		11	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM	1000TM	1000TM	1000TM		1000M\$	1000\$	1000\$	
1970	1013	1023	354	27		66281	3197	704	
1971	1078	1077	219	77		69628	2027	1698	
1972	1142	1143	143	144		81006	1062	3104	
1973	1258	1272	55	174		93199	924	5536	
1974	1342	1341	32	284		118461	1022	17208	
1975	1422	1444	23	466		150257	954	22209	
1976	1739	1726	8	343		179073	443	14699	
1977	1777	1795	14	289		187977	579	13917	
1978	2196	2190	64	225		227445	2570	11389	
1979	2265	2301	75	461		275570	3583	25123	
1980	2349	2433	62	667		363124	2903	41383	
1981	2833	2909	-	960		505231	-	61189	
1982	3123	3305	17	1175		587014	936	72212	
1983	3231	3552	-	-		628405	-	-	
1984	-	-	-	-		-	-	-	

Country: Malaysia

Commodity: Tin, unwrought

ISIC Code	372049								Note:
NSIC Code									
SITC Code	6871								
NSTC Code	687								
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000US\$	1000US\$	
1970	72630		91939	127			328515	228	
1971	74253		86697	178			294298	329	
1972	75619		90022	152			302696	294	
1973	71121		81544	171			369854	368	
1974	68122		85734	289			629162	908	
1975	64364		77991	139			502838	531	
1976	63401		51610	126			601856	491	
1977	58703		66577	246			692742	1052	
1978	62650		70219	407			874972	1278	
1979	61404		72181	323			1059527	2120	
1980	59938		69558	291			1151477	1945	
1981	52342		66507	573			926616	3021	
1982	41367		48718	1038			6, 523	9890	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Malaysia

Commodity: Structural Shapes and Complete Steel Structures

ISIC Code	3813*								Note:
NSIC Code									
SITC Code	891.1								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN	TN	TN	TN			1000\$	1000\$	
1970	8252	8245	1140	5970			487	2531	
1971	11446	11249	2889	6239			1045	2646	
1972	16108	16108	1499	14493			729	3474	
1973	19924	19911	6378	13878			3276	8045	
1974	17318	16784	7643	14315			3309	10192	
1975	9497	9852	3598	13054			2300	12832	
1976	10155	10351	2723	10970			2590	9205	
1977	11415	11760	4605	8003			4437	6867	
1978	14413	14739	7284	8642			5258	9770	
1979	12540	12711	7620	10956			4220	13419	
1980	13318	12084	4074	23340			5087	30002	
1981	13325	13944	13612	27542			8461	41828	
1982	13759	13725	6521	88860			4248	157323	
1983	13214	13094	-	-			-	-	
1984	-	-	-	-			-	-	

Country: MalaysiaCommodity: Iron and Steel Drums

ISIC Code	3819*								Note:
NSIC Code									
SITC Code	692.21								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4		11	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOM	NOM				1000M\$	1000\$	1000\$	
1970	928063	919682	-	-		8084	472	2838	
1971	958438	954794	-	-		9942	250	2818	
1972	1141916	1149108	-	-		11602	467	3223	
1973	1441929	1452281	-	-		11842	1142	6176	
1974	1381461	1370684	-	-		19285	1426	6595	
1975	1893133	1415490	-	-		20866	2699	5050	
1976	1420249	1402204	-	-		22734	2007	5668	
1977	2029648	2024876	-	-		38812	2147	5342	
1978	2093130	2160012	-	-		42219	4225	4933	
1979	2227000	2231000	-	-		49181	6069	7498	
1980	2726000	2713000	-	-		65528	6414	10224	
1981	2161000	2161000	-	-		59664	6054	10558	
1982	2108000	2140000	-	-		59684	6477	9677	
1983	1883000	1897000	-	-		47082	-	-	
1984	-	-	-	-		-	-	-	

Country: Malaysia

Commodity: Refrigerators, for household use

ISIC Code	382958								Note:
NSIC Code	38291*								
SITC Code	71942, 72501								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH	NOH	NOH	NOH			1000C	1000\$	
1970	-	-	-	-			87	3045	
1971	-	-	-	-			129	3007	
1972	31236	30799	-	-			43	2826	
1973	43944	44211	-	-			57	4149	
1974	48014	45800	-	-			591	7638	
1975	48971	48329	-	-			819	5453	
1976	61830	61134	-	-			148	5509	
1977	64068	66600	-	-			394	9389	
1978	88681	85317	354	21469			97	6899	
1979	87810	86313	230	13501			93	4841	
1980	126685	125470	482	19627			178	7893	
1981	148197	141489	393	21006			121	8305	
1982	145514	153274	195	19709			76	6965	
1983	164146	162268	-	-			-	-	
1984	-	-	-	-			-	-	

Country: Malaysia

Commodity: Television receivers

ISIC Code	383201							Note:
NSIC Code								
SITC Code	724.1							
NSTC Code								
	Quantity				Value			
Source	11	11	4	4			4	4
	Production	Ship	Export	Import	Production	Shipment	Export	Import
Unit	NOH	NO	NOH	NOH			1000\$	1000\$
1970	-	-	-	-			513	3454
1971	-	-	-	-			435	4019
1972	59439	57755	-	-			103	3742
1973	64773	63513	-	-			282	5205
1974	77986	77072	-	-			849	6189
1975	101445	100618	-	-			2969	8315
1976	107775	108423	-	-			894	8123
1977	142486	141506	-	-			1143	10640
1978	150108	134319	1041	44955			206	14562
1979	154127	157834	2309	215538			299	56794
1980	157352	152623	3032	261210			867	62196
1981	158613	164142	26339	195057			2598	50191
1982	271799	277752	117884	195828			12609	41931
1983	-	-	-	-			-	-
1984	-	-	-	-			-	-

Country: MalaysiaCommodity: Passenger cars

ISIC Code	384307		384310						Note:
NSIC Code									
SITC Code	732.1								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH	NOH	NOH	NOH			1000\$	1000\$	
1970	20957	20843	1617	29893			2428	45948	
1971	23528	23440	1569	35573			2546	57200	
1972	24703	24792	822	38663			1372	66866	
1973	41345	41300	567	57109			1419	123267	
1974	52891	52169	458	79410			1449	186784	
1975	39179	39778	1460	50724			2982	120910	
1976	44231	44280	-	-			1500	152434	
1977	55557	52572	-	-			1550	230767	
1978	62298	63268	291	87801			1439	275953	
1979	59570	59556	256	74292			1665	270538	
1980	79249	79279	272	111535			2063	396416	
1981	86418	86428	168	115099			971	417310	
1982	83617	80649	316	103402			2092	345762	
1983	97407	93580	-	-			-	-	
1984	-	-	-	-			-	-	

PART XI

PHILIPPINES

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Converter between ISIC and National  
Classification
- IV. Commodity Balance Sheets



I. Explanatory Notes on Manufacturing Statistics

I-1 Annual survey of establishment-manufacturing  
National Census and Statistics Office.

I-2 Census of establishments-manufacturing  
National Census and Statistics Office.

## PHILIPPINES

ANNUAL SURVEY OF ESTABLISHMENTS-MANUFACTURING  
Explanatory Notes

National Census and Statistics Office

Introduction

The Annual Survey is a nationwide sample survey intended to bring forward the major types of data on manufacturing industries between census years. Primary information collected in this survey for national estimates were desired include employment, payrolls, assets, inventories, output, materials used, resales and value added.

Scope of the survey1970, 1971, 1973, 1974

The Annual Survey of Manufacturing Establishments is a probability designed sample survey covering all known establishments with an average total employment of 5 or more workers which were engaged in manufacturing as defined in the International Standard Industrial Classification of All Economic Activities of the United Nations.

1979, 1980, 1981

The Annual Survey of Establishments covered all known establishments in the country with an average total employment of one or more workers which were engaged in manufacturing activities as defined in the 1977 Philippine Standard Industrial Classification of All Economic Activities.

Reporting Unit

The reporting unit in the annual survey is the establishment. Manufacturing activities not carried on in "establishments" are not within the scope of the survey. Thus, homeworkers working for others in their own homes - cottage or home industry - were not included in the survey.

Period covered

The period covered by the survey was the calendar year 1970. Employment data were collected for a payroll period ending nearest each of February 15, May 15, August 15 and November 15; Inventory data, for January 1, 1970 and December 31; and value of fixed assets as of January 1, 1970 and December 31. Other data were collected for the entire year.

Definition of "establishment"

A manufacturing establishment is a plant, mill, factory or shop at a single physical location, where a particular manufacturing, fabricating, precessing, and/or assembling operation is performed. The establishment under this definition is therefore not necessarily

identical with the business firm or company which may consist of one or more establishments engaged in different lines of activity. The following activities when carried on at the same physical location by the manufacturing establishment were required to be included in the establishment report: generation of power for the plant, maintenance of plant and equipment, receiving, shipping, warehousing, storage, research, health, safety, cafeteria and other services. However, sales branches, research laboratories, retail stores and general administrative offices, if operated separate from the manufacturing establishment were excluded from the report.

### Design of the sample

#### 1970, 1971, 1973, 1974

A stratified random sample was designed for the 1970 Annual Survey of Manufacturing Establishments. The individual establishment was used as the sample unit. Multiple stratification was achieved based on industrial classification of the establishment, its size as measured by total employment, and its location. The industry major group in the standard industrial classification (Food, Beverages, Tobacco, Textiles, etc.) formed separate primary strata. Each major group stratum was further divided into substrata according to 3 size groups and 2 geographic locations. The 3 size groups based on total employment were:

Size 2-Establishments with 5 to 9 workers.

Size 3-Establishments with 10 to 19 workers.

Size 4-Establishments with 20 or more workers.

The country was divided into 2 broad areas for the purpose of grouping establishments by geographical location namely: Manila and Suburbs which include Manila, Quezon City, Caloocan City, Pasay City, Makati, Mandaluyong, Navotas and San Juan; and Outside Manila and Suburbs representing the rest of the country. Sampling fractions varied between substrata for each industry stratum, taking any of the values  $1/10$  or  $1/1$ . All substrata in size 4 (20 or more workers) had a sampling fraction  $1/1$ , while those in sizes 2 and 3 had a uniform sampling fraction of  $1/10$ . Within each substratum, sample establishments were selected independently and systematically with the use of random start.

#### 1979, 1980, 1981

Annual Survey of Establishments for Manufacturing was the updated frame of the previous year's survey. The sampling unit is the individual establishment. The sampling design used was multiple stratification based on industry classification (according to specified 3 to 4-digit PSIC), by region and by size. The size of the establishment is defined in terms of average total employment (ATE) as follows:

Size	ATE
0	1-4
1	5-9
2	10-19
3	20-49
4	50-99
5	100-199
6	200-499
7	500-999
8	1000-1999
9	2000 & over

#### Method of collection of data

All selected establishments were sent by mail, through the Census Field Offices, questionnaire forms and a postage free return envelope. A copy of the questionnaire was also furnished for the responding establishment's files. Reminder notices and follow-up letters were sent to delinquent establishments at regular intervals. Later in the survey, telegraphic contacts were utilized. Personal visits were also made to some establishments which had failed to send in their reports after repeated follow-up letters or which had submitted incomplete or questionable reports.

#### Completeness of response

	Sample establishments	Response %
1970	3,598	79
1971	3,363	84
1973	7,438	76.5
1974	4,569	79.9
1976	6,092	64.8
1977	5,713	72
1979	4,934	61.8
1980	5,332	66.8
1981	6,907	75.11

#### Classification of establishments

1970, 1971, 1973, 1974, 1976, 1977

The industrial classification system used in the survey is based on the Standard Industrial Classification adopted for the Philippines, with the following modifications: (1) the sub-classification of some industry groups when the growing economic significance of certain industries warranted a distinct industrial classification; (2) combination or regrouping of some industries when they have little relative economic importance; and (3) reclassification of certain manufacturing activities originally classified under "not elsewhere classified" into separate industries. The reported products by the establishments were coded as to their class of products using a 5 digit code (Surveys of 1970, 1971, 1973 and 1974) and a 7 digit code (Surveys of 1976 and 1977). The group of product classes accounting for the principal proportion of the total value of shipments for an establishment determines its industry classification. However, if a particular establishment reported two or more significantly

different classes of products, a separate report is requested and each report is classified separately. The classification system used in the survey reflects the principles of the International Standard Industrial Classification recommended by the United Nations which has been closely followed to facilitate convertibility and international comparability.

1979, 1980, 1981

The classification system used in the survey reflects the principles of the 1977 Philippine Standard Industrial Classification of all economic activities. The major kind of activity of an establishment or kind of activity unit is determined by the proportion of the gross output of the principal products manufactured or services rendered. In cases where this is not applicable, the major activity of the establishment is ascertained from the proportion of employment to the total employment in all activities of the establishment.

#### Definition of terms

i) Manufacturing - is the mechanical or chemical transformation of organic or inorganic substances into new products, whether the work is performed by power-driven machines or by hand, whether it is done in a factory or in the worker's home, and whether the products are sold at wholesale or retail. The assembly of component parts of manufactured products and major repair work are considered manufacturing.

ii) Establishment - is an economic unit which engages under a single ownership or control, i.e., under a single entity in one or predominantly one kind of activity at a fixed location and having permanency of assets, such as goods for resale, products, materials, equipment, etc. in its premises during the operation.

A manufacturing establishment is a plant, mill, factory or shop at a single physical location where a particular manufacturing, fabricating, processing and/or assembling operation is predominantly performed.

iii) Working owners and unpaid family workers (Family workers not on regular payroll) - These are proprietors and active business partners who are actually engaged in the work of the establishment, Included are members of the household of the proprietor who worked without pay in the establishment for at least on third of the normal working time.

iv) Production and related workers - The "production and related workers" category comprises workers up through the working foreman level (capataz) engaged in fabricating, processing, assembling, receiving, storage, handing, packing, shipping, maintenance, repair, record keeping and other services closely associated with these production operations.

v) All other employees - The "all other employees" category comprises non-production personnel of the establishment including those engaged in the following activities: factory supervision above the working foreman level, sales (including driver salesman), sales delivery (truck drivers and their helpers), advertising, credit, collection, clerical and routine office functions, executive, purchasing, finance,

legal, personnel (including cafeterias and medical, etc.), professional and technical. This category includes executives, supervisors and all other non-production employees of the establishment.

vi) Total employment (average for the year) - The survey from required employment figures from each establishment in the sample for a payroll period ending nearest the 15th of February, May, August and November. A total average employment for the year was calculated from the data reported for the four periods. The employment data do not include members of the Armed Forces and pensioners carried in the active payroll of the establishment. Neither do they include persons working usually in their own homes (home workers) on materials owned by the establishment. Included, however, are all persons on paid holidays and paid vacation during the payroll period for which the employment data are required.

vii) Payrolls for paid employees (Salaries and wages) - Total(gross) payrolls include salaries, wages, overtime pay, commissions, dismissal pay, bonuses, vacation and sick leave pay and other remunerations paid to employees (except members of the Armed Forces and pensioners) on the payroll of the establishment during the entire year, prior to all deductions such as with holding taxes, group insurance, union dues, etc.

viii) Other Benefits - These are extra benefits given in cash or in kind to paid employees of the establishment, over and above the salaries and wages and other remunerations paid to them and reported under "Total payrolls". Such benefits are not considered part of the payrolls and may consist of free meals or foodstuffs, housing facilities and similar tangible benefits the value of which are not deducted from the employees. Medical and dental services furnished employee clubs, etc., are excluded. The establishment was required to report the estimated cash value of these benefits.

ix) Employer's contribution to SSS/GSIS - covers payments made by the establishment on behalf of the employees to social security schemes and pensions funds. This is considered part of the total compensation of employees but not part of employee's salaries and wages.

x) Total receipts include the value of products shipped, resale of goods, industrial and non-industrial services rendered to others and electricity sold.

xi) Cost and quantity of raw materials, fuels and electricity used (Total cost) - The quantity and cost of materials used during the year to produce or manufacture the products of the establishment were requested of each manufacturer. These materials include (1) those put into production, (2) those used as operating supplies, (3) those used in repair and maintenance, and (4) those owned by the establishment but used by others in making products for it.

xii) Cost of raw materials and containers - "Cost" refers to direct charges actually paid or payable for materials consumed or put into production. It represents cost after discounts and includes freight charges and other direct charges incurred in acquiring these materials. For materials received from other plants of the establish-

ment, cost represents approximate market values plus freight and other direct handling charges. Not included in these costs are the cost of materials or products which were bought or resold in the same condition without further processing or assembling by the establishment.

xiii) Value of shipments (products sold, etc.) - As a measure of production, the establishment was required to report the quantity and value of products "shipped" by it during the year. Included in such "shipment" are products sold, those shipped on consignment whether sold or not at the end of the year and those transferred from the plant to wholesale branches, central warehouses, retail stores, or other establishments of the company. Value represents net selling values, f.o.b. plant, after discounts and allowances and does not include freight charges and excise taxes. Not included in the value of shipments is the value of products made by an establishment from materials owned by others; payment received for such work reported as "receipts for contract work".

xiv) Value of by-products - By "by-products" is meant products incidentally produced or materials that may be discarded in manufacturing operations including any with saleable or usable value, and waste materials, in addition to the major products produced. Values are f.o.b. plant if the by-products are normally valued.

xv) Receipts from contract work (Industrial receipts) - Manufacturing were requested to give the value of contract work done for others on materials owned and furnished by the latter. This value figure does not include the value of materials worked on.

xvi) Miscellaneous receipts - These are receipts for repair, research and developmental work, etc. done by the establishment for others.

xvii) Non-industrial receipts - are receipts from all non-industrial services rendered to others such as advertising, accounting, insurance, legal, etc. and receipts from gross rent other than those for the use of land.

xviii) Receipts from resale - represents the value of sales of goods sold in the same condition as received including goods normally consumed by the establishment.

xix) Industrial costs are costs incurred for work done by others or for services of industrial nature rendered by others such as contract and commission work, repair, maintenance and installation work, research and development work done.

xx) Non-industrial costs - include costs from all non-industrial services done by others such as advertising, accounting, insurance, etc. and cost of rental of building, land and machinery.

xxi) Cost of resale - is the cost of materials or products which were bought and resold in the same condition as purchased.

xxii) Gross output - This represents the total value of shipments of manufactured products adjusted for change in inventories (ending less beginning) of finished products and work in process, receipts for

contract and repair work done for others, sales of products bought and resold without further manufacture and other operation receipts.

xxiii) Census value added - This a measure representing the difference between the value of gross output and the total cost of raw materials, containers and fuels consumed, purchased electricity, contract work done by others and resale goods sold. Census value added is not the same thing as value added defined in the national accounts. It is net relative to the agricultural and industrial sectors of the economy but is not net relative to the economy as a whole. The users should be cautioned about the large amount of duplication in the cost of materials and value of one industry's output may become the cost of materials to another industry and is subsequently reflected in the second industry's output. Value added by manufacture measures the approximate value created during the successive stages in the production of finished manufacturing products and is thus a better measure of the importance of given industries in the country as a whole.

xxiv) Value of fixed assets and capital expenditures

Fixed assets - Fixed assets include all tangible goods owned by the establishment intended for its own use that have a productive life of more than one year. These are the type goods generally charged to capital and dereciation accounts such as land, buildings and structures, machinery, tools which last more than one year, transportation equipment and other similar items. The value reported is the "book value" at which each assets appears in the books of accounts or balance sheet of the establishment as of January 1 and December 31 (the value after deducing the dereciation reserve for past years)

Capital expenditures during the year - These refer to cost actually incurred or payable during the year for the purpose of obtaining additional fixed assets. These are of the type resources for which depreciation accounts are ordinarily maintained. These capital expenditures cover new structures and machinery and equipment which have not been used before in the country, including all imported fixed assets, whether new or used (second-hand) and those obtained from other users in the Philippines. This item includes the value of improvements and/or the cost of installation or the putting of imported secondhand equipment into working order. Not included is the cost of regular maintenance and ordinary repair made on such equipment.



## PHILIPPINES

Census of Establishments - Manufacturing  
Explanatory Notes1972, 1975, 1978

National Census and Statistics Office

Introduction

Census of Establishments is a nation wide comprehensive collection and compilation of statistical information pertaining to the business operation of establishment in the whole country.

Items of data gathered

The following items of data were gathered from respondent establishments through the census:

1972

From large establishments - Physical location, type of activity, period of operation, economic organization, form of ownership, type of ownership, employment, compensation of employees, manhours, fixed assets, costs, receipts, new fixed assets acquired, costs, receipts, inventories, electricity.

From small establishments - Physical location, main activity, economic organization, citizenship of owner, type of ownership, employment, compensation of employees, new fixed assets acquired, costs, receipts, inventories, electricity.

1975 and 1978

From large establishments - Name and address, year start operation, economic organization, other indicators of size, average total engaged, average monthly sales/receipts, description of activity and industry, name and address of main office, employment, compensation of paid, employees, manhours, receipts, costs, value of fixed assets, capital expenditures, inventories, electricity, indirect taxes, subsidies and selected indicators.

From small establishments - Name and address, year started operation, economic organization, other indicators of size, average total engaged, average monthly sales/receipts, description of activity and industry, name and address of main office, employment, wages and salaries paid, receipts, costs and new fixed assets acquired/produced.

The first nine items for both large small establishments were gathered in the first phase of the census (listing of establishment); the rest were gathered in detail through questionnaires during the second phase of the inquiry.

## Scope and coverage

1972, 1975 and 1978

The reporting and statistical unit in this inquiry is the establishment. For this census purpose, an establishment is defined as an economic unit which engages, under a single ownership or control, i.e., under a single legal entity, in one or predominantly one kind of economic activity at a fixed single physical location, and having permanency of assets, such as goods for resale, materials, products, equipment, etc., in its premises during its operation. Thus, stores, factories, mines, construction companies, electric plants, transportation lines, public bonded warehouses, hotels, restaurants, hospitals, barber and beauty shops, dress and tailoring shops, schools, law offices, and the like are considered establishments.

However, ambulant peddlers, streetside vendors and hawkers, because they do not have fixed business location, as well as market stalls and vendors of meat, fish, vegetables and fruits, because they remove their stocks from their place of business after business hours, are not considered establishments.

Census of Establishments covered all establishments engaged in any of the following economic activities: logging; mining and quarrying; manufacturing; electricity, gas and water; construction; wholesale and retail, restaurants and hotels; transport, storage and communication; financing, insurance, real estate and business services; and community, social and personal services.

Excluded from this census are government administrative services; religious institutions; political, civic, social and fraternal organizations; welfare institutions; authors, music composers and other independent artists; libraries, museums and similar institutions; self-employed nurses, midwives, etc.; letting and operating apartment buildings and dwellings; international and extra-territorial bodies; and domestic (household) services. Ancillary units that provide non-durable goods or services to parent establishments are also excluded.

Likewise, the census covered all establishments regardless of type of ownership and economic organization. Thus, government-owned or controlled corporations as well as privately-owned establishments were included. Similarly, establishments, whether single units or part of multi-establishment enterprises were covered in the census. Note, however, that central administrative (main) offices, as well as ancillary units like warehouses, garage, repair shops or electric power plants which primarily serve their parent establishments are out of the coverage of this census.

## Twenty selected industries

1972, 1975 and 1978

Based on previous census where a few industries predominated in number of establishments and whose characteristics were more or less uniform, a list of the twenty most common and prevalent industries in the country was compiled. The list is as follows:

	Code	Description
Industrial	31161	Rice milling
	31171	Bakery
	32201	Tailor shop
	32202	Dress shop
Non-Industrial	62111	Sari-sari store
	62112	Retail grocery store
	62121	Dry goods store
	62131	Met (fresh or frozen) store
	62134	Fresh fruits retailing
	62136	Rice retailing
	62222	Textile retailing
	63111	Carinderia (turo-turo)
	63121	Refreshments parlor
	63191	Beverages and liquor stand
	71131	Jeepney (PUJ and AC) operator
	93312	Medical clinic
	95911	Barber shop
	95912	Beauty shop

### Sampling

Although all establishments were covered in the listing, for the purposes of operational convenience and statistical exigencies, sampling was employed in the distribution of questionnaires to small establishments. The sampling design used was stratified systematic sampling with random start. The sampling unit was the individual small establishment.

#### 1972

Multiple stratification was based on activity classification (5-digit industry) by province and by employment size - within the province, small establishments were sorted by 5-digit industry, and within each 5-digit industry sub-group, establishments were further sorted by employment size category of 1-4 and 5-9. Sampling fractions are as follows:

1. Industrial - Small establishments with employment size of 1 to 5 were sampled at 1:10; those with employment size of 5 to 9 were sampled at 1:5.
2. Non-industrial - Small establishments with employment size of 1 to 9 were sampled at 1:10 except sari-sari stores which were sampled at 1:20;

#### 1975

Multiple stratification was based on activity classification (5-digit industry) by province and by employment size. Within the province, small establishments were sorted by 5-digit industry, and within each 5-digit industry sub-group, establishments were further

sorted by average total engaged (ATE) for industrial and average monthly sales/receipts (AMS/R) for non-industrial. Sampling fractions are as follows:

KB	ATE 1-9	AMS/R Less than ₱10,000
1	100 %	
2	10%	
3	10%	
4	10%	
5	10%	
6 Ssari		5%
Non-Ssari		10%
7 *		10%
8		10%
9		10%

\*Except some 3-digit KB where, instead of ATE or AMS/R, number of transport units or gross tonnage was used.

## 1978

Multiple stratification was based on activity classification (industry) by province and by size within the province. Establishments were sorted by industry sub-group (5-digit) and within each industry subgroup, establishments were further sorted by size, as follows:

1. Agriculture and industrial establishments
  - a. Stratum I - (employment size of 1-4) - 1:20
  - b. Stratum II - (employment size of 5-9) - 1:10
  - c. Stratum III - (employment size of 10-19) - 1:2
  - d. Stratum IV - (employment size of 20 and over) - 1:1
2. Non-industrial establishments
  - a. Stratum I - (average monthly sales/receipts of less than ₱1,000) - 1:20
  - b. Stratum II - (average monthly sales/receipts of ₱1,000-4,999) - 1:10
  - c. Stratum III - (average monthly sales/receipts of ₱5,000-49,999) - 1:12
  - d. Stratum IV - (average monthly sales/receipts of ₱50,000 and over) - 1:1

The minimum number of samples was three. If the number of establishments in any given sub-population was less than or equal to 3, all establishments were taken as samples.

### Delivery of questionnaires

Questionnaires were delivered to the samples selected for this census. Questionnaires were personally delivered by the census field office staff to establishments located in areas within commutable distance from the location of census offices, areas without post offices, as well as areas outside delivery limits of post offices. The rest of the questionnaires were distributed by the registered mail. For Manila and Rizal, personal delivery of questionnaires was done by a private messengerial (mail delivery) service office.

### Collection and follow-up

All questionnaires were distributed together with self-addressed return envelope, with instructions that these should be accomplished and mailed back to the office within thirty days. Personal collection, therefore, was limited to those establishments which did not comply within the prescribed period. Utmost efforts were exerted to follow-up those establishments which were delayed or delinquent in the submission of their reports; personal follow-up was utilized, augmented with reminder letters, telegrams and telephone calls.

### Treatment of non-response

Data for non-responding establishments were imputed from food questionnaires submitted by other establishments (substitutes). These substitutes were selected on the bases of similar industry classification, employment size group and geographic location.

### Industrial Classification

In conformity with the tabulation plan and in consonance with the recommendation of the United Nations Statistical Commission to compile statistical data which are internationally comparable, this census substantially based its classification of activities on the International Standard Classification of All Economic Activities (ISIC). Thus, the activity levels from 1-digit (major division) to 5-digit (Group) were lifted from the UN classification. However, the 5-digit industry classification was prepared by the census office to provide the necessary flexibility that conformed with the industrial peculiarities of the country.

### Definitions of terms and concepts

i) Establishment - An Economic unit which engages, under a single ownership or control, i.e., under a single entity in one or predominantly one kind of economic activity at a fixed single physical location, and having permanency of assets, such as goods for resale, materials, products, equipment, etc., in its premises during its operation.

ii) Kind of activity - The economic activity of the establishment as determined by the group of the ISIC in which the major activity is

included, i.e., determined from the product it ships or sells or the services which it renders. When two or more activities are involved, the activity with the greatest volume of receipts is considered to determine the kind of activity engaged in by the establishment.

iii) Number of persons engaged (selected periods) - Total number of persons who work in or for the establishment, including working owners and active business partners and unpaid family workers, operatives and other employees.

iv) Working owners - All individual proprietors and partners who are actively engaged in the work of the establishment and are not on regular payrolls, excluding silent or inactive partners.

v) Unpaid family workers (Family workers not on regular payroll) - All persons living in the household of any of the owners and working in the establishment without regular pay for at least one third of the working time normal to the establishment.

vi) Employees - All persons who work in or away from the establishment and receive compensation and are under the control of the establishment. Also included are salaried managers. The category "employees" includes all persons engaged other working owners and unpaid family workers.

vii) Operatives - All employees who are directly engaged in the production or related activities of the establishment, including any clerical or working supervisory personnel whose function is to record or expedite any step in the production process, such as persons engaged in fabricating, processing, or assembling, shop-cleaning personnel, warehousemen, repairmen, record-keeping personnel, and inspector. This particular group of workers applies to establishments engaged in mining and quarrying, manufacturing, electricity, gas and water.

viii) Other employees - All employees other than operatives, such as administrative, technical and clerical personnel, managers, bookkeepers, administrative supervisors, salesmen and the like.

ix) Average total engaged - The arithmetic average of the number of operatives and other employees in specified periods plus the number of working owners and unpaid family workers. The average total engaged of an establishment is computed as the total of the quarterly number of operatives and other employees divided by four (even if the establishment operated for less than four quarters) plus November 15 working owners and unpaid family workers.

x) Salaries and wages - All payments, whether in cash or in kind, made by the establishment to operatives and other employees. This includes all cash payments, bonuses, cost-of-living allowances, paid vacation and sick leaves, and payments in kind.

xi) Extra benefits - These are extra items (value estimated in pesos) given in kind over and above salaries and wages paid to operatives and

other employees. This may consist of foodstuffs, housing facilities and other tangible items whose values are not deducted from the earnings of the employees.

xii) Employer's contribution to social security, etc. - This covers payments made by the establishment on behalf of the employees to social security schemes and pension funds. This is considered part of the total compensation of employees but not part of the employees' salaries and wages.

xiii) Total costs - These are the cost of all materials and supplies; fuels; industrial contract; commission work, industrial repair, installation and maintenance done by others; non-industrial services rendered by others; goods for resale; and electricity purchased.

xiv) Total receipts - Refers to the value of all products shipped, resale of goods, industrial service done for others, non-industrial services rendered to others, and electricity sold.

xv) Shipment of products - The value of all goods shipped from the establishment during 1972 whether produced in 1972 or in previous years (i.e., all goods, the control of which was relinquished in 1972). This includes products shipped by the establishment on consignment and excludes products paid for but still within the control of the establishment.

xvi) Resale - The sale, without further transformation, of goods bought in the same condition as received. This includes the sale of goods normally consumed by the establishment.

xvii) Fixed assets - All physical assets expected to have a productive life of more than one year and intended for use by the establishment, such as buildings, structures and improvements to land, machinery, equipment and vehicles.

xviii) Book value of fixed assets - The value, net of accumulated depreciation, of fixed assets as of beginning of 1972 and appearing in the book of accounts of the establishments.

xix) Depreciation - The value set aside for the decline of fixed assets from natural causes (such as floods, earthquakes, etc.), or obsolescence or wear and tear as a result of business operations.

xx) New fixed assets - Include all fixed assets that have not been previously used in the country, such as brand new and newly-imported fixed assets.

xxi) Used fixed assets - All fixed assets obtained from other users and have been previously used within the country.

xxii) Capital expenditures for fixed assets - Include cost of acquisition of new and used fixed assets, fixed assets produced by the establishment for its own use, major alterations, additions and improvements to fixed assets, whether done by others or done on own

account.

xxiii) Gross fixed capital formation - This is equal to capital expenditures (acquisition of new and used fixed assets, fixed assets produced for own use and major alterations, additions to fixed assets) less sale of fixed assets.

xxiv) Inventories - All materials and supplies, fuels, goods for resale, work-in-process and finished products owned and held by or under the control of the establishment.

xxv) Changes in stock - This is computed as the value of ending inventory less the value of beginning inventory.

xxvi) Indirect taxes - Include all taxes incidental to the production or sale of goods and services by the establishments which are chargeable as expenses of production, such as excise and sales taxes, motor vehicle duties, local taxes, business licenses and fees and stamp duties.

xxvii) Subsidies - All special grants in the form of financial assistance or tax exemption or tax privilege given by the government (to aid and develop and industry or production and to protect it against competition).

xxviii) Census value added - This is equal to the sum of the value of fixed assets produced by the establishment for its own use; major alterations, additions and improvements to fixed assets done by the establishment on own account; shipments of products; receipts from resales; receipts from industrial services done for others; ending inventory; and electricity sold less the sum of the cost of materials and supplies; fuels; industrial services done by others; goods bought for resale; beginning inventory; and electricity purchased.

xxix) Prime movers - These are machines that convert various forms of energy (except electrical) into mechanical energy. Though usually stationary, they may be mobile and are activated by water, steam, heat or chemical reactions and may consist of simple wheelshaft arrangements, windmills, water wheels, steam engines or turbines, or internal combustion engines. These are rated in horsepower.



II. General Industrial Statistics

II-1. UN, UNIDO and National Data.

II-2. National Data.

II-1. Statistical Tables of UN, UNIDO and National Data

1. Number of Establishments
2. Employment (Average number of persons engaged)
3. Employment (Average number of employees)
4. Gross Output
5. Wages and Salaries
6. Value Added
7. Gross Fixed Capital Formation
8. Index Number of Industrial Production (1975=100)

## Explanatory Notes

### 1. Table note

COUNTRY: PHILIPPINES

CODE	INDUSTRY	1970	
3	UN		----- a/ (1st row)
	UNIDO		----- b/ (2nd row)
	NA 01	3587	----- c/ (3rd row)

a/ UN, Yearbook of Industrial Statistics, vol I, General Industrial Statistics.

b/ UNIDO, General Industrial Data base.

c/ National Census and Statistics Office,  
 -Annual Survey of Establishment-Manufacturing,  
 -Census of Establishments-Manufacturing.

### 2. Data note

1. For NA 01 data, refer to notes on National Data (i.e. II-2)

COUNTRY: PHILIPPINES

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	10490	10238	4476	13055	13313	77291	78476	74621	86931	85100	85230	84031		
311/2	Food products	3093	2943	989	3774	3833	1494	27688	27998	---	29495	29282	---		
		3093	2943	989	3774	3833	27224	27688	26546	29775	29495	29282	29190		
313	Beverages	101	98	86	118	97	91	1139	1122	---	1066	1076	---		
		101	98	86	118	97	768	1139	1106	1087	1066	1076	1065		
314	Tobacco	68	53	44	48	43	37	40	44	---	44	45	---		
		68	53	44	48	43	30	40	30	34	44	45	35		
321	Textiles	197	214	266	567	537	431	3514	3542	---	4432	4472	---		
		197	213	266	567	537	3721	3514	3157	4510	4432	4472	4415		
322	Wearing apparel	2675	2589	310	3003	3319	576	28027	28429	---	28194	28200	---		
		2675	2589	310	3003	3319	27599	28027	28086	28383	28194	28200	28148		
323	Leather and products	68	85	36	78	101	52	252	235	---	256	251	---		
		68	85	36	78	101	240	252	219	284	256	251	323		
324	Footwear	---	---	91	555	560	163	1452	1357	---	1371	1370	---		
		---	---	91	555	560	1343	1452	1294	1418	1371	1370	1370		
331	Wood products	539	551	457	796	812	483	2707	2325	---	2443	2432	---		
		539	551	457	796	812	2683	2707	1945	2447	2443	2432	2415		

COUNTRY: PHILIPPINES

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	302	298	206	694	713	322	2713	2665	---	3388	3465	---		
		302	298	206	654	713	2610	2713	2475	3027	3408	3465	3430		
341	Paper and products	157	149	102	138	112	103	218	220	---	241	247	---		
		157	149	102	138	112	200	218	190	255	241	247	241		
342	Printing, publishing	514	505	276	569	466	350	1288	1231	---	1356	1364	---		
		514	505	276	569	566	1104	1288	1131	1478	1356	1364	1363		
351	Industrial chemicals	280	286	65	80	72	88	135	144	---	130	144	---		
		280	286	65	80	72	104	135	98	102	130	144	136		
352	Other chemical products	---	---	141	175	214	178	245	303	---	328	342	---		
		---	---	141	175	214	203	245	282	377	328	342	336		
353	Petroleum refineries	5	6	4	4	5	5	4	4	---	4	4	---		
		---	---	4	4	5	5	4	4	4	4	4	4		
354	Petroleum, coal products	8	7	3	7	6	6	9	11	---	12	13	---		
		14	13	3	7	6	14	9	11	27	12	13	13		
355	Rubber products	84	70	82	141	117	88	300	272	---	780	760	---		
		84	70	82	141	117	293	300	205	800	780	760	750		

COUNTRY: PHILIPPINES

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	150	---	122	150	148	169	140	284	---	250	280	---		
		---	---	122	150	148	287	140	234	260	250	280	282		
361	Pottery, china etc.	11	14	7	34	45	21	545	658	---	625	721	---		
		---	---	7	34	45	543	545	630	711	625	721	717		
362	Glass and products	64	87	31	30	28	27	38	45	---	80	82	---		
		---	---	31	30	28	51	38	42	93	80	82	78		
363	Cement	---	---	---	---	---	---	---	---	19	19	19	19		
369	Non-metal products n.e.c.	393	314	170	478	458	195	1352	1345	---	1614	1700	---		
		468	410	170	478	458	1454	1352	1060	1705	1595	1081	1673		
371	Iron and steel	65	68	71	88	74	75	116	117	---	264	252	---		
		81	88	71	88	74	75	116	110	325	264	252	245		
372	Non-ferrous metals	16	20	17	33	23	22	27	29	---	68	64	---		
		---	---	17	33	23	22	27	28	80	68	64	63		
381	Metal products	454	474	275	633	646	363	3411	3218	---	4803	4830	---		
		454	474	275	633	646	3390	3411	3019	4747	4710	4743	4742		
382	Machinery n.e.c.	335	340	194	302	295	337	914	940	---	1230	1238	---		
		335	340	194	302	295	895	914	821	1352	1230	1238	1223		

COUNTRY: PHILIPPINES

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	204	232	102	161	150	141	211	229	---	268	294	---		
		203	232	102	161	150	212	211	201	339	268	204	280		
384	Transport equipment	613	549	211	193	210	281	740	753	---	853	890	---		
		613	549	211	193	210	754	740	635	965	853	890	874		
385	Professional goods	22	---	12	21	18	15	32	25	---	34	33	---		
		---	---	12	21	18	39	32	22	53	34	33	32		
386	Repair of furniture and fixtures primarily	---	---	---	---	---	---	---	---	79	93	90	90		
		---	---	---	---	---	---	---	---	79	93	90	90		
390	Other industries	78	286	94	179	211	278	1210	1129	---	1364	1361	---		
		250	280	94	179	211	1265	1210	938	1490	1364	1361	1349		

COUNTRY: PHILIPPINES

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NA 01	85.0	88.0	87.5	117.6	111.7	100.4	167.1	205.6	---	217.6	258.2	---		
313	Beverages	15.2	15.9	15.0	17.7	18.9	27.0	22.0	29.0	---	30.2	34.3	---		
314	Tobacco	22.6	21.3	19.8	22.3	22.0	20.3	18.8	22.4	---	20.1	20.5	---		
321	Textiles	52.4	48.3	58.1	84.9	86.9	72.5	94.2	115.4	---	140.8	143.7	---		
322	Wearing apparel	34.7	37.3	18.4	33.5	35.7	32.9	124.8	121.1	---	151.7	195.9	---		
323	Leather and products	1.8	1.9	1.2	2.2	2.3	2.3	3.4	3.7	---	4.8	5.0	---		
324	Footwear			2.4	7.2	6.5	3.8	11.4	10.8	---	12.5	12.2	---		
331	Wood products	38.9	41.7	55.7	47.8	42.7	43.6	83.7	73.7	---	73.5	81.3	---		



COUNTRY: PHILIPPINES

## Employment (Average Numbers of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	6.9	6.3	7.7	10.6	11.5	10.9	22.5	22.0	---	37.0	37.8	---		
341	Paper and products	8.9	10.4	16.9	12.1	12.1	10.8	14.2	15.9	---	20.6	21.3	---		
342	Printing, publishing	16.1	15.3	12.4	16.5	14.6	12.5	21.1	19.7	---	24.2	23.0	---		
351	Industrial chemicals	22.8	25.7	6.9	7.8	7.8	7.8	11.8	16.4	---	11.0	12.3	---		
352	Other chemical products			18.7	20.5	21.1	20.9	22.2	26.0	---	24.8	28.2	---		
353	Petroleum refineries	1.0	1.0	1.0	1.0	1.1	1.6	1.0	1.1	---	1.7	1.3	---		
354	Petroleum, coal products	0.6	0.7	0.1	0.2	0.2	0.1	0.1	0.2	---	0.4	0.4	---		
355	Rubber products	8.6	9.2	9.6	12.9	13.0	9.5	14.4	13.4	---	18.7	28.4	---		

COUNTRY: PHILIPPINES

Employment (Average Numbers of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	6.4	6.7	8.3	10.4	11.0	14.7	13.2	17.7	---	15.0	19.4	---		
361	Pottery, china etc.	0.5	0.7	0.9	1.6	2.2	2.3	6.4	5.4	---	6.1	6.8	---		
362	Glass and products	7.5	7.8	6.7	7.0	6.7	6.0	6.2	10.3	---	10.0	10.2	---		
369	Non-metal products n.e.c.	10.6	13.3	12.2	18.8	16.6	13.5	15.9	29.7	---	31.4	29.5	---		
371	Iron and steel	9.1	9.7	8.7	13.0	13.5	8.7	12.6	13.0	---	14.7	17.1	---		
372	Non-ferrous metals	1.8	1.9	0.5	2.8	3.0	1.3	3.0	2.0	---	5.2	5.9	---		
381	Metal products	16.2	18.1	16.2	21.4	17.7	22.3	34.2	31.0	---	41.8	49.6	---		
382	Machinery n.e.c.	6.7	6.9	9.9	11.2	12.0	16.0	19.5	19.8	---	20.8	28.0	---		

COUNTRY: PHILIPPINES

Employment (Average Numbers of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	13.5	14.9	13.6	17.3	19.3	21.7	26.3	38.0	---	40.4	45.5	---		
384	Transport equipment	13.5	14.7	16.0	13.9	15.2	19.7	24.1	33.6	---	32.8	39.8	---		
385	Professional goods	0.5	0.6	0.7	1.0	1.2	1.3	1.3	1.6	---	5.3	5.2	---		
390	Other industries	2.0	2.5	4.2	4.7	5.5	7.0	13.3	11.4	---	18.3	17.6	---		

COUNTRY: PHILIPPINES

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
3	Total UN UNIDO NA 01	389	407	439	522	515	512	702	676	1 713	926	1054	944			
311/2	Food products	79.4 79 79	82.7 83 83	85.3 85 90	111.0 111 110	105.0 105 105	98.5 98 100	129.7 130 130	164.8 105 140	---	179.0 179 179	215.0 ---	---	---	---	---
313	Beverages	15.1 15 15	15.9 16 16	14.9 15 15	17.7 18 18	18.8 19 19	27.8 28 28	21.1 21 21	27.7 28 24	---	28.8 20 29	32.8 ---	---	---	---	---
314	Tobacco	22.6 23 23	21.2 21 21	19.8 20 20	22.3 22 22	22.0 22 22	20.3 20 20	18.8 19 19	22.3 22 21	---	20.1 20 20	20.5 ---	---	---	16	
321	Textiles	52.3 52 52	48.1 48 48	57.8 58 61	84.4 84 84	86.4 86 86	71.9 72 72	88.0 88 88	100.0 109 93	---	133.9 134 134	136.2 ---	---	---	107	
322	Wearing apparel	29.7 25 30	32.6 27 33	17.8 18 22	29.4 29 29	30.3 30 30	32.1 32 33	85.4 85 85	84.6 85 84	---	112.7 113 113	150.8 ---	---	---	143	
323	Leather and products	1.7 2 2	1.8 2 2	1.1 1 1	2.1 2 2	2.2 2 2	2.2 2 2	3.2 3 3	3.2 3 3	---	4.5 4 4	4.7 ---	---	---	4	
324	Footwear	--- 5 ---	--- 5 ---	2.2 2 ---	6.4 6 6	5.8 6 6	3.5 3 -	8.0 9 9	8.7 9 c	---	10.1 10 10	9.7 ---	---	---	11	
331	Wood products	38.4 38 38	41.1 41 41	55.2 55 56	40.9 47 47	41.0 42 42	43.2 43 44	80.1 80 80	70.6 71 42	---	70.4 70 70	78.0 ---	---	---	64	

COUNTRY: PHILIPPINES

Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	6.4	5.9	7.4	10.0	10.6	10.6	19.3	19.4	---	33.0	32.9	---		
		6	6	7	10	11	11	19	19	---	33	---	---		
		6	6	8	10	11	11	19	10	41	33	33	32		
341	Paper and products	8.8	10.3	16.8	12.0	12.1	10.7	14.0	15.8	---	20.4	20.2	---		
		9	10	17	12	12	11	14	16	---	20	---	---		
		9	10	17	12	12	11	14	15	29	20	21	16		
342	Printing, publishing	15.5	14.9	12.2	16.2	14.3	12.2	19.7	18.2	---	23.0	21.6	---		
		15	15	12	16	14	12	20	18	---	23	---	---		
		16	15	11	16	14	12	20	16	51	23	22	23		
351	Industrial chemicals	22.7	25.7	6.8	7.8	7.8	7.8	11.6	16.3	---	11.9	12.3	---		
		6	7	7	8	8	8	12	16	---	12	---	---		
		2.3	2.6	26	8	8	8	12	9	22	12	12	12		
352	Other chemical products	---	---	18.6	20.5	21.0	20.1	22.2	25.9	---	24.7	28.2	---		
		17	19	19	20	21	20	22	26	---	25	---	---		
		---	---	---	20	21	20	22	23	74	25	28	25		
353	Petroleum refineries	1.0	1.1	1.0	1.0	1.1	1.6	1.0	1.1	---	1.7	1.3	---		
		1	1	1	1	1	2	1	1	---	2	---	---		
		---	---	---	1	1	2	1	1	1	1	1	1	2	
354	Petroleum, coal products	0.5	0.7	0.1	0.2	0.2	0.1	0.1	0.2	---	0.4	0.4	---		
		---	1	---	---	---	---	---	---	---	---	---	---		
		2	2	1	0	0	0	0	0	1	0	0			
355	Rubber products	8.6	9.1	9.5	12.7	12.9	9.5	14.1	13.0	---	17.4	27.1	---		
		9	9	9	13	13	9	14	13	---	17	---	---		
		9	9	10	13	13	10	14	11	54	17	27	21		

COUNTRY: PHILIPPINES

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	6.4	6.6	8.2	10.4	11.0	14.7	13.2	17.5	---	15.0	19.2	---		
		6	7	8	10	11	15	13	17	---	15	---	---		
		---	---	---	10	11	15	13	19	23	15	20	18		
361	Pottery, china etc.	0.4	0.7	0.8	1.6	2.1	2.3	3.7	4.0	---	4.8	5.4	---		
		---	1	1	2	2	2	4	4	---	5	---	---		
		---	---	---	2	2	2	4	3	1	5	5	4		
362	Glass and products	7.3	7.6	6.7	7.0	6.7	6.0	6.1	10.3	---	10.0	10.2	---		
		7	8	7	7	7	6	6	10	---	10	---	---		
		---	---	---	7	7	6	6	7	21	10	10	8		
363	Cement	---	---	---	---	---	---	---	---	6	8	9	8		
		---	---	---	---	---	---	---	---	---	---	---	---		
		---	---	---	---	---	---	---	---	---	---	---	---		
369	Non-metal products n.e.c.	10.3	13.0	11.9	18.3	16.2	13.3	15.6	28.0	---	29.3	27.5	---		
		10	13	12	18	16	13	16	28	---	29	---	---		
		18	21	20	18	16	14	16	19	18	22	19	16		
371	Iron and steel	9.1	9.7	8.6	13.0	13.5	8.7	12.5	12.9	---	14.6	17.0	---		
		9	10	9	13	13	9	12	13	---	15	---	---		
		11	12	---	13	13	9	13	12	21	15	17	16		
372	Non-ferrous metals	1.8	1.9	0.5	2.8	3.0	1.3	3.0	2.0	---	5.2	5.8	---		
		2	2	---	3	3	1	3	2	---	5	---	---		
		---	---	9	3	3	1	3	2	3	5	6	4		
381	Metal products	16.0	17.8	15.9	21.0	17.1	22.1	30.6	26.5	---	35.4	43.7	---		
		16	18	16	21	17	22	30	26	---	35	---	---		
		16	18	17	21	17	22	30	24	52	34	42	37		
382	Machinery n.e.c.	6.5	8.6	9.8	10.9	11.8	15.8	18.6	18.9	---	25.6	27.1	---		
		6	7	10	11	12	16	19	19	---	26	---	---		
		7	7	10	11	12	16	19	16	68	26	27	25		

COUNTRY: PHILIPPINES

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
383	Electrical machinery	13.3	14.7	13.6	17.2	19.3	21.6	20.2	38.8	---	40.3	45.3	---			
		13	15	14	17	19	22	26	39	---	40	---	---			
		13	15	13	17	19	22	26	34	111	40	45	48			
384	Transport equipment	12.7	14.0	13.2	13.8	15.2	19.5	23.4	23.0	---	32.1	39.1	---			
		13	14	13	14	15	19	23	33	---	32	---	---			
		13	14	16	14	15	20	23	25	67	32	39	29			
385	Professional goods	0.5	0.6	0.7	1.0	1.2	1.3	1.3	1.6	---	5.3	5.2	---			
		0	1	1	1	1	1	1	1	2	---	5	---	---		
		---	---	---	1	1	1	1	1	1	4	5	5	3		
386	Repair of furniture and fixtures primarily	---	---	---	---	---	---	---	---	1	2	2	2			
390	Other industries	2.0	2.5	4.0	4.5	5.3	6.7	11.2	9.5	---	16.0	15.0	---			
		2	2	4	4	5	7	11	9	---	16	---	---			
		9	9	14	5	5	7	13	6	22	16	15	12			

COUNTRY: PHILIPPINES

Gross Output (in Producers' Values)

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	15847	19522	21451	31248	47553	51950	53850	67826	185442	103744	137536	134179		
311/2	Food products	3870	4834	6190	9210	14516	13483	12676	19029	---	25318	30677	---		
		3870	4834	6190	9210	14516	13483	12676							
		3870	4834	6231	9210	14516	13482	12676	17623	56084	25324	30677	30429		
313	Beverages	845	1017	907	1250	1762	3935	2440	3877	---	3826	5676	---		
		845	1017	907	1250	1762	3935	2440	3877	---	3826	---	---		
		845	1071	903	1250	1762	3934	2440	3025	4077	3826	5676	5878		
314	Tobacco	884	995	1246	1506	2149	2510	2255	3776	---	4448	4721	---		
		884	995	1246	1506	2149	2510	2255	3776	---	4448	---	---		
		884	995	1251	1506	2149	2510	2255	3220	3230	4448	4721	5748		
321	Textiles	1108	1441	1634	2619	3490	3315	4272	5549	---	8278	9577	---		
		1108	1441	1634	2619	3490	3315	4272	5549	---	8278	---	---		
		1108	1441	1546	2619	3490	3313	4272	5154	14412	8278	9577	8327		
322	Wearing apparel	281	337	167	287	374	430	934	1013	---	2882	4138	---		
		285	282	167	287	374	430	934	1013	---	2882	---	---		
		281	337	164	287	374	446	934	1282	6011	2882	4138	8675		
323	Leather and products	33	37	30	56	60	81	84	98	---	240	203	---		
		33	37	30	56	60	81	84	98	---	240	---	---		
		33	37	30	56	60	81	84	94	455	240	201	183		
324	Footwear	---	---	39	58	58	55	73	91	---	283	368	---		
		46	55	30	58	58	55	73	91	---	283	---	---		
		---	---	39	58	58	55	73	124	259	283	368	769		
331	Wood products	659	796	1246	1227	1281	1496	1875	2058	---	4424	5495	---		
		659	796	1146	1227	1281	1496	1875	2058	---	4424	---	---		
		659	796	1246	1227	1281	1496	1875	1742	4472	4424	5495	4463		



COUNTRY: PHILIPPINES

Gross Output (in Producers' Values)

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	56	67	105	141	193	202	293	364	---	906	1045	---		
		56	67	105	141	193	202	293	364	---	906	---	---		
		56	67	105	141	193	202	293	410	1015	906	1045	1054		
341	Paper and products	509	607	777	1064	1578	1126	2002	2608	---	4356	4524	---		
		509	607	777	1064	1578	1126	2002	2608	---	4356	---	---		
		509	607	777	1064	1578	1126	2002	2498	5759	4336	4524	3121		
342	Printing, publishing	307	355	338	505	667	640	624	811	---	1863	1721	---		
		307	355	338	505	667	640	624	811	---	1863	---	---		
		307	354	340	505	667	640	624	1003	5261	1863	1721	1880		
351	Industrial chemicals	2174	2872	584	1346	1800	1349	1520	3237	---	4567	5561	---		
		863	1140	584	1346	1800	1349	1520	3237	---	4567	---	---		
		2174	2872	571	1347	1801	1349	1520	2107	6658	4567	5567	6078		
352	Other chemical products			1684	1953	2869	3113	3801	4408	---	4535	6505	---		
		1311	1732	1684	1953	2969	3113	3801	4408	---	4535	---	---		
		---	---	1680	1953	2869	3113	3801	4348	16549	4535	6505	5016		
353	Petroleum refineries	1316	1696	1726	2445	6251	8478	8557	10110	---	11554	22648	---		
		1316	1696	1726	2445	6251	8478	8557	10110	---	11554	---	---		
		---	---	1718	2445	6251	8447	8557	8096	13659	11554	22648	22782		
354	Petroleum, coal products	72	62	7	75	64	69	163	167	---	24	51	---		
		72	62	7	75	64	69	163	161	---	24	---	---		
		1374	1758	7	75	64	69	163	178	42	24	51	76		
355	Rubber products	404	378	468	563	806	854	847	990	---	2146	2866	---		
		404	378	463	563	806	854	847	990	---	2146	---	---		
		404	377	464	563	806	854	847	969	3053	2146	2866	2053		

COUNTRY: PHILIPPINES

Gross Output (in Producers' Values)

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	162	199	306	342	534	789	627	793	---	1361	1696	---		
		162	199	306	342	534	789	627	793	---	1361	---	---		
		---	---	306	342	534	789	627	1011	1714	1361	1696	2421		
361	Pottery, china etc.	14	15	18	40	74	106	157	249	---	352	339	---		
		14	15	18	40	74	106	157	249	---	352	---	---		
		---	---	18	41	74	106	157	188	37	352	339	251		
362	Glass and products	205	240	269	344	419	336	300	862	---	899	1143	---		
		205	240	269	344	419	336	300	862	---	899	---	---		
		---	---	232	344	419	336	299	586	1655	899	1143	1046		
363	Cement	---	---	---	---	---	---	---	---	1277	1872	2811	2917		
		---	---	---	---	---	---	---	---	---	---	---	---		
		---	---	---	---	---	---	---	---	---	---	---	---		
369	Non-metal products n.e.c.	249	442	453	718	1164	1323	1642	1799	---	3074	4069	---		
		249	442	453	718	1164	1323	1642	1799	---	3074	---	---		
		468	697	443	718	1164	1323	1642	1782	1034	1203	1258	1037		
371	Iron and steel	770	627	622	1668	1906	2196	2440	2660	---	3294	7627	---		
		770	627	622	1668	1906	2196	2440	2660	---	3294	---	---		
		901	780	625	1668	1906	2196	2440	2748	2800	3294	7627	3614		
372	Non-ferrous metals	136	154	20	255	371	154	389	209	---	983	1103	---		
		136	154	20	255	371	154	389	209	---	983	---	---		
		---	---	20	255	371	154	389	291	239	983	1103	684		
381	Metal products	508	678	859	1137	1290	1533	1376	1534	---	2882	2630	---		
		508	678	859	1137	1290	1533	1376	1534	---	2882	---	---		
		508	678	876	1137	1290	1533	1376	1707	3627	2716	2561	3034		
382	Machinery n.e.c.	114	130	296	333	628	728	534	498	---	1476	1395	---		
		114	130	296	333	628	728	534	498	---	1476	---	---		
		114	130	290	333	628	728	534	643	5348	1476	1359	1695		

COUNTRY: PHILIPPINES

Gross Output (in Producers' Values)

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	517	636	627	818	1215	1478	1422	2170	---	4306	3593	---		
		517	636	627	818	1215	1478	1422	2170	---	4206	---	---		
		517	636	627	818	1215	1478	1422	2477	9520	4206	3593	4780		
384	Transport equipment	628	868	942	1178	1878	1909	2405	3962	---	4774	7295	---		
		628	868	942	1178	1878	1909	2405	3962	---	4774	---	---		
		628	868	940	1178	1878	1909	2406	3386	15044	4774	7295	4701		
385	Professional goods	6	8	12	21	32	34	26	79	---	195	134	---		
		6	8	12	21	32	34	26	79	---	195	---	---		
		---	---	13	21	32	34	26	77	789	195	134	121		
386	Repair of furniture and fixtures primarily	---	---	---	---	---	---	---	---	48	106	60	80		
390	Other industries	36	37	61	89	124	214	125	212	---	594	720	---		
		36	37	61	80	124	214	125	212	---	594	---	---		
		204	238	61	80	124	215	125	158	1085	594	720	605		

COUNTRY: PHILIPPINES

## Wages and Salaries

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	1296	1556	1841	2091	2398	2843	4047	4632	14673	8015	10765	10745		
311/2	Food products	248	291	346	417	477	611	733	1077	---	1237	1734	---		
		248	291	377	417	477	611	733	928	3075	1294	1810	2180		
313	Beverages	75	85	85	111	132	190	198	296	---	382	353	---		
		75	85	92	111	132	189	198	257	381	400	575	468		
314	Tobacco	59	69	67	79	83	82	107	129	---	172	228	---		
		59	69	75	79	83	82	107	130	165	180	236	232		
321	Textiles	126	149	171	266	314	293	423	560	---	963	1141	---		
		126	149	185	266	314	293	423	522	1624	1009	1185	993		
322	Wearing apparel	51	69	46	59	66	119	257	301	---	577	980	---		
		51	69	48	59	66	117	257	311	1570	604	1110	1021		
323	Leather and products	4	5	3	6	6	9	13	15	---	27	35	---		
		4	5	3	6	6	9	13	12	37	28	37	32		
324	Footwear	---	---	5	12	11	10	23	28	---	50	56	---		
		---	---	5	12	11	10	23	24	32	53	58	79		
331	Wood products	104	128	197	153	152	208	494	395	---	520	743	---		
		104	128	210	153	152	209	494	243	581	544	780	658		

COUNTRY: PHILIPPINES

## Wages and Salaries

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	14	15	23	28	33	35	77	85	---	201	226	---		
		14	15	24	28	33	35	77	74	211	211	235	247		
341	Paper and products	38	49	75	65	70	68	105	130	---	225	281	---		
		38	49	78	65	71	68	105	128	321	235	293	245		
342	Printing, publishing	63	72	49	69	71	67	123	128	---	241	234	---		
		63	72	53	69	71	67	123	124	556	253	244	290		
351	Industrial chemicals	151	173	39	54	56	69	118	225	---	201	233	---		
		151	173	42	54	57	70	118	122	362	211	241	256		
352	Other chemical products			135	165	209	229	291	372	---	402	602	---		
		---	---	150	165	209	229	291	346	1521	420	633	607		
353	Petroleum refineries	15	19	17	17	25	41	28	30	---	86	56	---		
		---	---	19	17	25	41	28	31	45	88	56	108		
354	Petroleum, coal products	2	3	1	1	1	1	1	1	---	4	4	---		
		17	22	0	1	1	1	1	2	5	4	4	5		
355	Rubber products	32	34	40	50	61	59	83	188	---	200	325	---		
		32	34	44	50	61	59	83	98	416	208	334	284		

COUNTRY: PHILIPPINES

## Wages and Salaries:

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	18	22	28	34	47	71	74	88	---	116	190	---		
		---	---	29	34	47	71	73	110	179	121	198	211		
361	Pottery, china etc.	3	3	4	7	10	13	25	35	---	51	44	---		
		---	---	4	7	10	13	25	27	5	53	46	45		
362	Glass and products	29	35	36	38	44	51	56	113	---	107	142	---		
		---	---	37	38	44	51	56	80	249	113	151	113		
363	Cement	---	---	---	---	---	---	---	---	48	83	159	158		
369	Non-metal products n.e.c.	34	51	46	73	72	74	110	188	---	272	322	---		
		65	90	40	73	72	74	110	136	141	203	177	163		
371	Iron and steel	40	43	36	63	73	46	83	97	---	151	197	---		
		40	54	37	63	73	46	83	93	197	158	205	238		
372	Non-ferrous metals	9	12	2	18	22	7	27	20	---	65	85	---		
		---	---	2	18	22	8	27	23	20	68	89	77		
381	Metal products	52	77	64	90	78	128	150	169	---	273	376	---		
		52	77	68	90	78	128	150	163	394	275	377	401		
382	Machinery n.e.c.	21	24	30	50	63	89	106	117	---	220	276	---		
		21	24	42	50	63	82	106	109	556	230	289	305		

COUNTRY: PHILIPPINES

## Wages and Salaries

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	52	65	66	82	107	125	158	298	---	388	519	---		
		52	65	72	82	107	125	158	271	940	404	539	705		
384	Transport equipment	50	56	67	69	94	131	182	310	---	395	595	---		
		50	56	73	60	94	131	182	230	830	416	621	444		
385	Professional goods	1	2	2	3	4	5	6	7	---	30	39	---		
		---	---	2	3	4	5	6	10	46	38	41	57		
386	Repair of furniture and fixtures primarily	---	---	---	---	---	---	---	---	8	11	15	18		
		---	---	---	---	---	---	---	---	8	11	15	18		
390	Other industries	6	6	12	13	17	22	36	35	---	95	114	---		
		25	30	12	13	17	22	37	25	143	100	119	107		

COUNTRY: PHILIPPINES

Value Added

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO RA 01	9589	7438	8637	11225	15647	21030	13607	12544	62064	31747	43852	39990		
311/2	Food products	1505 1505 2365	1869 1869 1869	2210 2210 2315	3030 3030 2918	4861 4861 4862	4758 4758 4757	2534 2534 2534	3449 3449 2485	---	6411 6411 6403	7994 ---	---	7682	
313	Beverages	502 502 343	587 587 587	408 408 436	643 643 643	872 872 872	2888 2888 2886	1433 1433 1433	1943 1943 1834	---	1824 1824 1824	2443 ---	---	3061	
314	Tobacco	430 430 454	544 544 544	390 390 543	542 542 542	968 968 968	1361 1361 1361	611 611 611	1861 1861 676	---	2140 2140 2140	2684 ---	---	2448	
321	Textiles	408 408 700	506 506 506	587 587 632	950 950 950	1187 1187 1187	1345 1345 1343	1065 1065 1065	1190 1190 725	---	3112 3112 3112	2955 ---	---	2820	
322	Wearing apparel	106 91 175	162 139 162	80 80 86	127 127 127	151 151 151	179 179 231	425 225 425	475 475 558	---	1410 1410 1410	1916 ---	---	3172	
323	Leather and products	11 11 22	12 12 12	11 11 10	18 18 18	18 18 18	27 27 26	21 21 21	23 23 17	---	70 70 70	64 ---	---	64	
324	Footwear	---	---	14	22	24	19	29	34	---	117	119	---		
		15 ---	23 ---	14	22	24	19	29	34	---	117	---	---		
				14	22	24	19	29	45	112	117	119	360		
331	Wood products	254 254 405	314 314 314	601 601 642	527 527 529	485 485 485	701 701 702	552 552 552	435 435 505	---	1477 1477 1477	1950 ---	---	1540	



CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	27	31	48	58	75	85	129	139	---	376	464	---		
		27	31	48	58	75	85	129	139	---	376	---	---		
		30	31	54	58	75	83	129	133	463	376	464	519		
341	Paper and products	186	201	266	320	550	488	771	905	---	1607	1427	---		
		186	201	266	320	550	488	771	905	---	1607	---	---		
		323	201	294	320	550	500	771	634	2103	1607	1427	711		
342	Printing, publishing	160	181	158	217	263	161	191	180	---	652	503	---		
		160	181	158	217	263	161	191	180	---	652	---	---		
		147	181	163	217	263	161	191	294	2180	652	503	796		
351	Industrial chemicals	800	981	186	539	447	483	57	294	---	1887	2296	---		
		275	337	186	539	447	483	57	294	---	1887	---	---		
		1375	981	194	539	447	518	57	366	2968	1887	2296	2282		
352	Other chemical products			689	799	1121	912	1442	1491	---	1604	2571	---		
		525	644	689	799	1121	912	1442	1491	---	1604	---	---		
		---	---	704	799	1121	914	1442	1102	7201	1604	2571	1742		
353	Petroleum refineries	449	439	433	803	1254	1489	1276	2082	---	774	2399	---		
		449	439	433	803	1254	1487	1276	2082	---	774	---	---		
		---	---	468	803	1254	3215	1276	n.a.	579	774	2399	3228		
354	Petroleum, coal products	15	19	3	19	26	14	36	59	---	9	16	---		
		15	19	3	19	26	14	36	59	---	9	---	---		
		928	441	3	20	26	14	36	47	16	9	16	21		
355	Rubber products	194	156	182	216	320	309	281	318	---	677	1087	---		
		194	156	182	216	320	309	281	318	---	677	---	---		
		211	156	187	217	321	309	281	280	1154	677	1087	843		

COUNTRY: PHILIPPINES

Value Added

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	57	83	102	114	176	262	145	261	---	471	581	---		
		57	83	102	114	176	262	145	261	---	471	---	---		
		---	---	111	114	176	277	145	230	558	471	581	1134		
361	Pottery, china etc.	10	10	10	22	40	77	75	129	---	199	205	---		
		10	10	10	22	40	77	75	129	---	199	---	---		
		---	---	10	22	40	76	75	43	12	199	205	132		
362	Glass and products	114	138	137	183	169	118	40	306	---	423	393	---		
		114	138	137	183	169	118	106	306	---	423	---	---		
		---	---	117	183	169	121	40	172	920	423	393	356		
363	Cement	---	---	---	---	---	---	---	---	480	601	731	721		
		---	---	---	---	---	---	---	---	---	---	---	---		
		---	---	---	---	---	---	---	---	---	---	---	---		
369	Non-metal products n.e.c.	124	206	174	317	431	491	402	335	---	1156	1233	---		
		124	206	174	317	431	491	402	335	---	1156	---	---		
		228	351	320	317	431	545	492	332	535	540	503	446		
371	Iron and steel	195	135	188	483	417	571	425	694	---	457	4104	---		
		195	135	188	483	417	571	425	694	---	457	---	---		
		652	182	208	483	417	571	425	196	858	457	4105	572		
372	Non-ferrous metals	58	50	7	91	131	76	76	115	---	266	365	---		
		58	50	7	91	131	76	76	115	---	266	---	---		
		---	---	7	91	131	76	76	77	89	266	365	141		
381	Metal products	160	235	309	364	330	521	315	391	---	744	976	---		
		160	235	307	364	339	521	315	391	---	744	---	---		
		348	235	324	364	339	521	315	348	1048	622	946	962		
382	Machinery n.e.c.	59	71	125	159	323	---	180	123	---	620	600	---		
		59	71	125	159	323	360	180	123	---	620	---	---		
		55	71	138	159	323	376	180	194	2552	620	600	820		

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	226	283	247	310	475	538	405	482	---	1348	1714	---		
		226	283	247	310	475	538	405	482	---	1348	---	---		
		291	283	256	310	475	543	405	594	4524	1348	1714	1473		
384	Transport equipment	216	241	294	303	461	689	563	1027	---	1563	2395	---		
		216	241	294	303	461	689	563	1027	---	1563	---	---		
		412	241	352	303	461	796	563	604	3992	1563	2395	1577		
385	Professional goods	3	4	6	10	15	13	7	27	---	127	95	---		
		3	4	6	10	15	13	7	27	---	127	---	---		
		---	---	7	11	15	14	6	27	506	127	95	54		
386	Repair of furniture and fixtures primarily	---	---	---	---	---	---	---	---	25	122	30	32		
390	Other industries	19	20	28	39	48	72	32	51	---	240	303	---		
		19	20	28	39	48	72	32	51	---	240	---	---		
		125	91	27	39	48	72	32	34	468	240	303	280		

COUNTRY: PHILIPPINES

## Gross Fixed Capital Formation

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
3	Total UN UNIDO NA 01	1342	1179	---	1463	2134	2731	2944	2737	15665	5788	9071	8033		
311/2	Food products	255.3 255.3 255	309.2 309.2 309	266.9 266.9 ---	388.2 388.2 388	370.9 370.9 371	642.1 642.1 543	373 373 467	550 550 557	---	866 866 1025	1085 ---	---	---	1208
313	Beverages	25.1 25.1 25	44.5 44.5 45	41.4 41.4 ---	63.0 63.0 63	86.3 86.3 86	---	69 68.7 71	292 292 206	---	337 337 341	970 ---	---	---	314
314	Tobacco	39.2 39.2 39	42.3 42.3 42	68.6 68.6 ---	52.3 52.3 52	66.6 66.6 67	52.1 52.1 52	48 48.3 49	106 106 170	---	23 23 40	131 ---	---	---	152
321	Textiles	91.9 91.9 92	87.1 87.1 87	132.4 132.4 ---	191.1 191.1 191	340.0 340.0 340	784.0 784.0 585	555 555.0 577	312 312 331	---	1122 1122 1213	991 ---	---	---	568
322	Wearing apparel	8.8 8.8 9	10.9 10.9 11	10.8 --- ---	10.6 --- 11	9.2 --- 9	43.8 --- 57	27 --- 28	41 41 39	---	95 95 104	158 ---	---	---	1218
323	Leather and products	0.5 0.5 0	1.2 1.2 1	0.6 0.6 ---	1.0 1.0 1	0.6 0.6 1	1.5 1.5 2	4 3.6 4	3 3 2	---	6 6 6	9 ---	---	---	5
324	Footwear	---	---	2.1 2.1 ---	0.4 0.4 0	0.5 0.5 1	16.7 16.7 17	11 11.5 11	2 1.6 2	---	7 7 7	10 ---	---	---	4
331	Wood products	67.2 67.2 67	74.8 74.8 75	203.7 203.7 ---	106.9 106.9 107	109.4 109.4 109	238.5 238.5 187	137 137.0 160	104 104 83	---	240 240 247	323 ---	---	---	517

COUNTRY: PHILIPPINES

## Gross Fixed Capital Formation

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	0.7	2.7	4.2	3.6	3.6	14.5	12	28	---	60	75	---		
		0.7	2.7	4.2	3.6	3.6	14.5	12.0	28	---	60	---	---		
		1	3	---	4	4	16	12	22	82	60	75	30		
341	Paper and products	57.4	37.4	460.7	41.3	57.1	183.1	154	117	---	266	304	---		
		57.4	37.4	460.7	41.3	57.1	183.1	154.2	117	---	266	---	---		
		57	37	---	41	57	44	155	111	428	269	309	232		
342	Printing, publishing	6.4	15.7	23.4	33.8	32.0	12.8	61	67	---	108	139	---		
		6.4	15.7	23.4	33.8	32.0	12.8	61.0	67	---	108	---	---		
		6	16	---	34	32	22	63	66	804	114	145	65		
351	Industrial chemicals	70.6	95.9	47.5	104.0	89.0	83.3	120	277	---	241	615	---		
		70.6	95.9	---	---	---	---	---	277	---	264	---	---		
		71	96	---	104	89	76	283	193	309	224	618	739		
352	Other chemical products	---	---	46.7	61.0	64.0	64.3	89	147	---	198	345	---		
		---	---	46.7	61.0	64.0	64.0	89.3	147	---	198	---	---		
		---	---	---	61	64	60	102	132	820	200	364	187		
353	Petroleum refineries	170.4	174.8	69.7	82.9	87.5	57.7	42	55	---	132	157	---		
		170.4	174.8	69.7	82.9	87.5	58.0	41.8	55.2	---	132	---	---		
		---	---	---	83	87	57	44	55	92	132	158	137		
354	Petroleum, coal products	3.0	2.0	0.2	0.1	0.3	0.8	2	6	---	1	---	---		
		3.0	2.0	0.2	0.1	0.3	0.8	1.7	6	---	1	---	---		
		173	177	---	1	0	1	2	10	2	1	0	1		
355	Rubber products	11.4	23.7	29.2	44.8	27.8	40.7	112.4	49	---	64	---	---		
		11.4	23.7	29.2	44.8	27.8	40.7	112.4	49	---	64	---	---		
		11	24	---	45	28	37	113	28	182	64	105	88		

COUNTRY: PHILIPPINES

## Gross Fixed Capital Formation

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	12.6	15.8	10.5	15.1	42.8	67.8	28	52	---	68	76	---		
		12.6	15.8	10.5	15.1	42.8	67.8	27.6	52	---	68	---	---		
		---	---	---	15	43	68	31	75	400	72	80	75		
361	Pottery, china etc.	1.9	1.9	5.7	14.3	4.5	203.8	18	72	---	43	---	---		
		1.9	1.9	5.7	14.3	4.5	203.8	18.4	72	---	43	---	---		
		---	---	---	14	5	171	20	44	2	45	0	65		
362	Glass and products	40.6	37.0	21.5	23.6	28.5	33.8	36.	44	---	184	124	---		
		40.6	37.0	21.5	23.6	28.5	33.8	30.0	44	---	184	---	---		
		---	---	---	24	28	27	30	42	104	180	124	136		
363	Cement	---	---	---	---	---	---	---	---	315	90	207	340		
		---	---	---	---	---	---	---	---	---	---	---	---		
		---	---	---	---	---	---	---	---	---	---	---	---		
369	Non-metal products n.e.c.	115.5	53.1	181.1	68.4	334.2	80.4	310	154	---	152	484	---		
		115.5	53.1	181.1	68.4	334.2	80.4	310.3	154	---	152	---	---		
		158	92	---	68	334	55	372	89	103	64	281	80		
371	Iron and steel	261.0	44.2	20.2	36.8	145.2	81.4	55	131	---	80	1028	---		
		261.0	44.2	20.2	36.8	145.2	81.4	55.1	131	---	80	---	---		
		273	61	---	37	145	80	55	90	180	80	1020	1061		
372	Non-ferrous metals	11.8	16.8	0.2	14.6	12.0	5.1	8	10	---	77	87	---		
		11.8	16.8	0.2	14.6	12.0	5.1	7.0	10	---	77	---	---		
		---	---	---	15	12	5	8	11	33	78	87	87		
381	Metal products	14.5	16.9	20.9	23.3	27.6	82.2	39	49	---	94	49	---		
		14.5	16.9	20.9	23.3	27.6	82.2	39.2	49	---	94	---	---		
		14	17	---	23	28	79	43	50	239	92	48	137		
382	Machinery n.e.c.	6.6	13.0	20.5	12.0	58.4	41.0	33	48	---	93	67	---		
		6.6	13.0	20.5	12.0	58.4	41.0	33.2	48	---	93	---	---		
		7	13	---	12	58	39	42	45	507	94	67	64		

COUNTRY: PHILIPPINES

## Gross Fixed Capital Formation

Unit: Million Pesos

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	56.7	40.6	51.8	31.5	45.2	65.3	76	148	---	225	854	---		
		56.7	40.6	51.8	31.5	45.2	65.3	76.2	148	---	225	---	---		
		57	41		31	45	59	83	126	670	230	872	323		
384	Transport equipment	9.7	16.2	41.1	35.5	80.2	299.3	95	157	---	617	670	---		
		9.7	16.2	41.1	35.5	80.2	299.3	95.5	157	---	617	---	---		
		10	16	---	36	80	293	98	154	604	636	671	155		
385	Professional goods	1.3	---	---	0.7	3.3	1.8	---	---	---	54	42	---		
		1.3	---	---	0.7	3.3	1.8	0.2	0.1	---	54	---	---		
		---	---	---	1	3	2	1	0	15	54	42	33		
386	Repair of furniture and fixtures primarily	---	---	---	---	---	---	---	---	4	5	2	5		
390	Other industries	1.4	1.2	1.6	1.9	6.9	9.2	12	5	---	14	19	---		
		1.4	1.2	1.6	1.9	6.9	9.2	11.7	5	---	14	---	---		
		15	14	---	2	7	9	13	3	25	16	22	9		

COUNTRY: PHILIPPINES

## Index Number of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UN	79	89	102	140	95	115	118	124	136	149	---		
		UNIDO	79	90	102	140	95	115	118	125	135	149	164		
		NA 01													
313	Beverages		72	73	92	92	95	116	140	136	142	144	---		
			72	73	92	92	94	116	140	137	142	144	134		
314	Tobacco		84	94	98	76	88	87	85	98	105	101	---		
			84	93	98	76	88	87	85	98	105	101	105		
321	Textiles		79	98	92	107	98	99	112	127	135	130	---		
			79	98	93	107	98	99	112	127	135	131	139		
322	Wearing apparel		66	75	76	85	89	124	130	144	156	145	---		
			66	75	76	85	89	125	130	144	156	145	157		
323	Leather and products		149	94	110	87	86	95	107	100	100	122	---		
			149	94	110	88	87	96	107	101	100	122	132		
324	Footwear		---	---	---	---	---	---	---	---	---	---	---		
			66	75	76	85	89	125	130	144	156	145	157		
331	Wood products		114	88	117	136	101	106	120	113	125	128	---		
			114	88	117	135	100	106	120	113	125	128	136		



COUNTRY: PHILIPPINES

Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	35	32	64	80	110		99	89	96	104	101	---		
		35	32	64	80	110		99	89	96	104	101	107		
341	Paper and products	123	106	111	124	119		126	134	150	165	160	---		
		123	107	111	124	119		126	134	150	165	160	188		
342	Printing, publishing	27	30	81	104	128		100	87	96	109	100	---		
		27	30	81	104	128		100	87	96	108	100	102		
351	Industrial chemicals	52	68	81	88	142		80	92	100	93	89	---		
		52	68	81	88	142		80	92	100	93	89	89		
352	Other chemical products	---	---	---	---	---		---	---	---	---	---	---		
		52	68	81	88	142		80	92	100	93	89	89		
353	Petroleum refineries	---	---	---	---	---		---	---	---	---	---	---		
		72	75	84	76	69		95	95	100	104	100	107		
354	Petroleum, coal products	269	238	270	227	110		109	141	136	140	137	---		
		270	238	270	227	110		109	141	136	143	137	133		
355	Rubber products	92	105	115	120	103		111	88	98	110	92	---		
		92	105	116	120	103		111	80	97	110	92	80		

COUNTRY: PHILIPPINES

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	---	---	---	---	---		---	---	---	---	---	---		
		45	62	81	81	84		100	---	---	---	---	---		
361	Pottery, china etc.														
362	Glass and products	120	130	104	130	113		112	114	123	129	135	---		
		119	129	104	138	113		111	114	122	130	135	155		
369	Non-metal products n.e.c.														
371	Iron and steel	---	---	---	---	---		---	---	---	---	---	---		
		60	70	36	81	71		122	154	179	207	223	---		
372	Non-ferrous metals	---	---	---	---	---		---	---	---	---	---	---		
		63	79	82	84	113		105	121	117	132	135	129		
381	Metal products	83	66	75	82	100		104	99	117	127	131	---		
		83	65	75	82	99		103	99	117	127	131	121		
382	Machinery n.e.c.	88	81	60	122	91		80	83	95	104	110	---		
		73	72	83	107	131		113	139	161	---	---	---		

COUNTRY: PHILIPPINES

Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
383	Electrical machinery	90	98	77	94	88		94	87	122	145	171	---		
		90	98	77	94	80		94	87	122	145	171	206		
384	Transport equipment	66	60	70	92	90		103	105	123	120	120	---		
		66	60	70	91	95		103	105	123	120	120	123		
385	Professional goods	---	---	---	---	---		---	---	---	---	---	---		
		31	33	72	100	108		104	---	---	---	---	---		
390	Other industries	102	164	122	153	150		02	113	134	155	181	---		
		82	80	84	80	94		100	97	98	---	---	---		

II-2. Statistical tables of National Data

1. Number of Establishments
2. Employment (Average number of employees)
3. Gross Output
4. Wages and Salaries
5. Value Added
6. Gross Fixed Capital Formation

Data Source:

National Census and Statistics Office.

-Annual Survey of Establishments-Manufacturing  
1970-1971, 1973-1974 (Employee: 5 or more)  
1976-1977, 1979-1981 (Employee: 1 or more)

-Census of Establishments-Manufacturing  
1972 and 1975 (Employee: 10 or more)  
1978 (Employee: 1 or more)

		1970	1971	1972	1973	1974	g/1975
3		10,496	10,238	4,476	13,055	13,313	77,291
311/312	Food manufacturing	3,093	2,943	989	3,774	3,833	27,224
313	Beverage manufacturing	101	98	86	118	97	768
314	Tobacco manufacturing	68	53	44	48	43	39
321	Manufacture of textiles	197	213	266	567	537	3,721
322	Manufacture of wearing apparel, except footwear	a/ 2,675	a/ 2,589	316	3,003	3,319	27,594
323	Manufacture of leather and leather products, leather substi ...	68	85	36	78	101	240
324	Manufacture of footwear, except rubber, plastic or wood...			91	555	560	1,343
331	Manufacture of wood and wood and cork products, except furni ...	539	551	457	796	812	2,683
332	Manufacture and repair of furniture and fixtures ...	302	298	206	654	713	2,610
341	Manufacture of paper and paper products	157	149	102	138	112	200
342	Printing, publishing and allied industries	514	505	276	569	566	1,194
351	Manufacture of industrial chemicals	b/ 280	b/ 286	65	80	72	104
352	Manufacture of other chemical products			141	175	214	263
353	Petroleum refineries			4	4	5	5
354	Manufacture of miscellaneous products of petroleum and coal	c/ 14	c/ 13	3	7	6	14
355	Manufacture of rubber products	84	70	82	141	117	293
356	Manufacture of plastic products			122	150	148	287
361	Manufacture of pottery, china and earthenware			7	34	45	543
362	Manufacture of glass and glass products			31	36	28	51
363	Manufacture of cement			---	---	---	---
369	Manufacture of other non-metallic mineral products	d/ 408	d/ 416	176	478	458	1,454
371	Iron and steel basic industries	81	88	71	88	74	75
372	Non-ferrous metal basic industries			17	33	23	22
381	Manufacture of fabricated metal products, except machinery ...	e/ 454	e/ 474	275	633	646	3,399
382	Manufacture of machinery except electrical	335	340	194	302	295	895
383	Manufacture of electrical machinery apparatus	203	232	102	161	150	212
384	Manufacture of transport equipment	613	549	211	193	210	754
385	Manufacture of professional and scientific and measuring		1	12	21	18	39
386	Manufacture of repair of furniture and fixtures primarily			---	---	---	---
390	Other manufacturing industries	f/ 250	f/ 286	94	179	211	1,265

COUNTRY: PHILIPPINES (National Data)

## Number of Establishments

Unit: No.

		1976	<u>h</u> /1977	<u>h</u> /1978	1979	1980	<u>h</u> /1981
3		78,476	74,621	86,031	85,100	85,236	84,931
311/312	Food manufacturing	27,688	24,546	29,775	29,495	29,282	29,189
313	Beverage manufacturing	1,139	1,106	1,087	1,066	1,076	1,065
314	Tobacco manufacturing	40	39	34	44	45	35
321	Manufacture of textiles	3,514	3,157	4,510	4,432	4,472	4,415
322	Manufacture of wearing apparel, except footwear	28,027	28,080	28,383	28,194	28,200	28,148
323	Manufacture of leather and leather products, leather substi ...	252	219	284	256	251	323
324	Manufacture of footwear, except rubber, plastic or wood...	1,452	1,294	1,418	1,371	1,370	1,370
331	Manufacture of wood and wood and cork products, except furni ...	2,707	1,945	2,447	2,443	2,432	2,415
332	Manufacture and repair of furniture and fixtures ...	2,713	2,475	3,627	8,468	3,465	3,436
341	Manufacture of paper and paper products	218	199	255	241	247	241
342	Printing, publishing and allied industries	1,288	1,131	1,478	1,356	1,304	1,363
351	Manufacture of industrial chemicals	135	98	192	139	144	136
352	Manufacture of other chemical products	245	282	377	328	342	336
353	Petroleum refineries	4	4	4	4	4	4
354	Manufacture of miscellaneous products of petroleum and coal	9	11	27	12	13	13
355	Manufacture of rubber products	300	265	809	789	769	759
356	Manufacture of plastic products	149	234	266	250	286	282
361	Manufacture of pottery, china and earthenware	545	639	711	625	721	717
362	Manufacture of glass and glass products	38	42	93	80	82	78
363	Manufacture of cement	---	---	19	19	19	19
369	Manufacture of other non-metallic mineral products	1,352	1,066	1,705	1,595	1,681	1,673
371	Iron and steel basic industries	116	119	325	264	252	245
372	Non-ferrous metal basic industries	27	28	80	68	64	63
381	Manufacture of fabricated metal products, except machinery ...	3,411	3,019	4,747	4,710	4,743	4,742
382	Manufacture of machinery except electrical	914	821	1,352	1,239	1,238	1,223
383	Manufacture of electrical machinery apparatus	211	201	339	268	294	280
384	Manufacture of transport equipment	740	635	965	853	800	874
385	Manufacture of professional and scientific and measuring	32	22	53	34	33	32
386	Manufacture of repair of furniture and fixtures primarily	---	---	79	93	96	96
390	Other manufacturing industries	1,210	938	1,490	1,364	1,361	1,349

## Note:

Including major group 324.  
 DU 352 and 356.  
 DU 353.  
 DU 361 and 362.  
 DU 372.

f/ Including major group 382 and 386.  
g/ Philippine Yearbook, 1983.  
ly Preliminary data.

COUNTRY: PHILIPPINES (National Data)

Employment (Average Number of Employees)

Unit: No.

		1970	1971	g/1972	1973	1974	1975
3		389,008	406,617	439,468	522,078	514,845	511,737
311/312	Food manufacturing	79,381	82,685	90,384	110,014	105,037	100,442
313	Beverage manufacturing	15,130	15,898	15,148	17,658	18,857	27,868
314	Tobacco manufacturing	22,571	21,231	19,525	22,276	21,971	20,314
321	Manufacture of textiles	53,305	48,139	60,870	84,419	86,420	72,487
322	Manufacture of wearing apparel, except footwear	<u>a/</u> 29,663	<u>a/</u> 32,586	<u>a/</u> 21,566	29,370	30,205	32,912
323	Manufacture of leather and leather products, leather substi ...	1,714	1,793	1,246	2,127	2,177	2,259
324	Manufacture of footwear, except rubber, plastic or wood...				6,374	5,827	3,800
331	Manufacture of wood and wood and cork products, except furni ...	38,390	41,085	56,448	46,850	41,870	43,576
332	Manufacture and repair of furniture and fixtures ...	6,489	5,876	8,033	10,002	10,617	10,929
341	Manufacture of paper and paper products	8,812	10,304	17,450	11,969	12,086	10,751
342	Printing, publishing and allied industries	15,550	14,908	11,270	16,210	14,337	12,451
351	Manufacture of industrial chemicals	<u>b/</u> 22,702	<u>b/</u> 25,674	<u>b/</u> 26,176	7,771	7,778	7,776
352	Manufacture of other chemical products				22,494	21,108	20,136
353	Petroleum refineries				974	1,112	1,629
354	Manufacture of miscellaneous products of petroleum and coal	<u>c/</u> 1,522	<u>c/</u> 1,701	<u>c/</u> 1,113	211	180	148
355	Manufacture of rubber products	8,581	9,143	10,417	12,703	12,937	9,506
356	Manufacture of plastic products				10,398	10,976	14,749
361	Manufacture of pottery, china and earthenware				1,606	2,063	2,345
362	Manufacture of glass and glass products				7,012	6,086	6,032
363	Manufacture of cement				---	---	---
369	Manufacture of other non-metallic mineral products	<u>d/</u> 18,062	<u>d/</u> 21,313	<u>d/</u> 19,859	18,306	16,201	13,502
371	Iron and steel basic industries	10,892	11,653		13,026	13,508	8,713
372	Non-ferrous metal basic industries			9,547	2,787	3,033	1,266
381	Manufacture of fabricated metal products, except machinery ...	<u>e/</u> 15,860	<u>e/</u> 17,797	<u>e/</u> 16,760	21,015	17,068	22,326
382	Manufacture of machinery except electrical	6,509	6,552	10,301	10,923	11,787	16,036
383	Manufacture of electrical machinery apparatus	13,277	14,724	13,411	17,225	19,260	21,682
384	Manufacture of transport equipment	12,704	14,023	16,438	13,775	15,171	19,690
385	Manufacture of professional and scientific and measuring				1,035	1,210	1,341
386	Manufacture of repair of furniture and fixtures primarily				---	---	---
390	Other manufacturing industries	<u>f/</u> 8,885	<u>f/</u> 9,532	<u>f/</u> 13,505	4,548	5,354	7,040

COUNTRY: PHILIPPINES (National Data)

Employment (Average Number of Employees)

Unit: No.

		1976	h/1977	h/1978	1979	1980	h/1981
3		702,366	675,831	1,713,448	925,815	1,053,333	943,649
311/312	Food manufacturing	129,717	139,757	353,419	178,974	215,594	207,406
313	Beverage manufacturing	21,111	33,749	28,061	28,783	32,310	28,128
314	Tobacco manufacturing	18,843	20,918	22,849	20,099	20,531	16,171
321	Manufacture of textiles	88,039	92,709	217,419	133,939	136,183	106,081
322	Manufacture of wearing apparel, except footwear	85,368	88,804	294,637	112,721	150,752	142,879
323	Manufacture of leather and leather products, leather substi ...	3,158	2,568	8,361	4,480	4,679	4,235
324	Manufacture of footwear, except rubber, plastic or wood...	8,896	7,534	8,946	10,149	9,695	11,341
331	Manufacture of wood and wood and cork products, except furni ...	80,144	42,380	87,053	73,408	77,981	64,100
332	Manufacture and repair of furniture and fixtures ...	19,274	16,304	41,251	32,953	32,902	31,863
341	Manufacture of paper and paper products	14,050	14,979	28,958	20,421	21,246	16,047
342	Printing, publishing and allied industries	19,682	16,340	51,362	23,043	21,035	22,978
351	Manufacture of industrial chemicals	11,583	9,412	22,495	11,899	12,257	12,288
352	Manufacture of other chemical products	22,184	26,364	73,549	24,670	28,168	25,113
353	Petroleum refineries	1,077	1,088	1,272	1,714	1,282	1,742
354	Manufacture of miscellaneous products of petroleum and coal	154	308	574	396	383	370
355	Manufacture of rubber products	14,150	11,280	53,882	17,432	27,113	21,148
356	Manufacture of plastic products	13,182	19,177	23,123	14,967	19,193	18,110
361	Manufacture of pottery, china and earthenware	3,680	2,161	1,345	4,758	5,458	3,802
362	Manufacture of glass and glass products	6,151	7,208	20,829	10,033	10,186	8,332
363	Manufacture of cement	---	---	6,361	7,548	8,552	8,486
369	Manufacture of other non-metallic mineral products	15,562	18,967	18,187	21,790	18,978	16,186
371	Iron and steel basic industries	12,500	12,027	20,791	14,605	16,992	15,650
372	Non-ferrous metal basic industries	3,072	2,379	3,227	5,150	5,850	4,328
381	Manufacture of fabricated metal products, except machinery ...	29,954	23,637	51,530	33,908	42,003	37,658
382	Manufacture of machinery except electrical	18,592	15,938	67,614	25,625	27,132	24,568
383	Manufacture of electrical machinery apparatus	26,257	34,073	111,130	40,337	45,201	47,854
384	Manufacture of transport equipment	23,424	25,009	66,558	32,120	39,120	29,248
385	Manufacture of professional and scientific and measuring	1,340	1,292	4,282	5,304	5,169	3,161
386	Manufacture of repair of furniture and fixtures primarily	---	---	1,312	1,546	1,729	1,719
390	Other manufacturing industries	13,292	6,379	22,471	16,043	14,969	12,009

Note:

Including major group 324.  
 DU 352 and 356.  
 DU 353.  
 DU 361 and 362.  
 DU 372.

f, Including major group 385 and 386.  
 g, Philippine Yearbook, 1978.  
 h, Preliminary data.



COUNTRY: PHILIPPINES (National Data)

Gross Output

Unit: Thousands Pesos

		1970	1971	g/1972	1973	1974	h/1975
3		15,846,954.0	19,521,682.1	21,451,050	31,248,300	47,552,924	51,949,712
311/312	Food manufacturing	3,869,525.4	4,833,780.9	6,230,473	9,210,067	14,516,254	13,481,708
3i3	Beverage manufacturing	844,656.0	1,071,315.6	902,803	1,249,970	1,761,652	3,934,420
314	Tobacco manufacturing	884,441.1	994,892	1,250,670	1,506,433	2,149,274	2,509,906
321	Manufacture of textiles	1,107,849.9	1,441,277.3	1,546,008	2,618,654	3,490,233	3,313,277
322	Manufacture of wearing apparel, except footwear	a/ 281,494.3	a/ 336,355.2	184,096	287,037	373,656	446,157
323	Manufacture of leather and leather products, leather substi ...	33,101.1	37,218.2	29,943	56,231	59,685	80,879
324	Manufacture of footwear, except rubber, plastic or wood...			38,799	57,777	57,787	54,771
331	Manufacture of wood and wood and cork products, except furni ...	659,590.4	796,330.1	1,222,846	1,226,719	1,281,149	1,496,380
332	Manufacture and repair of furniture and fixtures ...	56,463.1	67,197.6	104,793	140,612	193,465	202,392
341	Manufacture of paper and paper products	508,732.9	606,762.7	734,087	1,063,883	1,577,780	1,126,289
342	Printing, publishing and allied industries	307,440.9	354,488.5	340,671	504,918	666,783	639,832
351	Manufacture of industrial chemicals	b/ 2,174,406.7	b/ 2,872,249.7	571,720	1,346,508	1,800,506	1,349,184
352	Manufacture of other chemical products			1,880,460	1,952,624	2,868,697	3,113,163
353	Petroleum refineries			1,717,622	2,445,238	6,250,683	8,447,227
354	Manufacture of miscellaneous products of petroleum and coal	c/ 1,373,672.0	c/ 1,758,003.1	7,390	74,642	64,320	68,822
355	Manufacture of rubber products	404,358.9	377,460.6	463,987	563,495	806,341	854,690
356	Manufacture of plastic products			302,981	341,545	534,282	789,312
361	Manufacture of pottery, china and earthenware			18,036	40,580	74,007	106,130
362	Manufacture of glass and glass products			232,445	343,734	419,158	336,429
363	Manufacture of cement			---	---	---	---
369	Manufacture of other non-metallic mineral products	d/ 468,441.9	d/ 696,692.8	442,796	717,608	1,163,555	1,322,679
371	Iron and steel basic industries	901,066.5	780,943.4	624,868	1,668,112	1,905,529	2,195,727
372	Non-ferrous metal basic industries			19,682	255,383	370,943	154,498
381	Manufacture of fabricated metal products, except machinery ...	e/ 508,456.7	e/ 677,769.7	876,262	1,136,695	1,290,111	1,532,748
382	Manufacture of machinery except electrical	114,438.0	130,411.9	289,963	333,384	628,186	728,367
383	Manufacture of electrical machinery apparatus	517,106.1	635,906.1	624,513	818,554	1,215,143	1,477,701
384	Manufacture of transport equipment	627,834.8	868,288.7	939,751	1,177,737	1,877,972	1,908,689
385	Manufacture of professional and scientific and measuring			12,544	21,094	31,989	34,411
386	Manufacture of repair of furniture and fixtures primarily			---	---	---	---
390	Other manufacturing industries	f/ 203,782.0	f/ 238,332.6	60,829	89,052	123,771	214,524

COUNTRY: PHILIPPINES (National Data)

Gross Output

Unit: Thousands Pesos

		1976	i/1977	i/j/1978	1979	1980	i/1981
3		53,859,273	67,826,087	185,442,302	103,744,351	137,535,699	134,178,870
311/312	Food manufacturing	12,675,865	17,622,837	56,083,732	25,323,808	30,677,471	30,429,244
313	Beverage manufacturing	2,440,111	2,924,951	4,076,620	3,825,586	5,675,643	5,878,157
314	Tobacco manufacturing	2,254,859	3,219,810	3,230,014	4,447,938	4,721,366	5,747,895
321	Manufacture of textiles	4,272,445	5,154,220	14,411,648	8,278,429	9,576,696	8,326,088
322	Manufacture of wearing apparel, except footwear	933,502	1,282,474	6,010,967	2,881,638	4,137,795	8,675,492
323	Manufacture of leather and leather products, leather substi ...	84,313	93,569	455,485	239,986	202,544	182,692
324	Manufacture of footwear, except rubber, plastic or wood...	72,565	123,908	259,290	282,989	367,815	768,829
331	Manufacture of wood and wood and cork products, except furni ...	1,875,199	1,741,993	4,471,835	4,424,006	5,495,157	4,462,781
332	Manufacture and repair of furniture and fixtures ...	292,769	410,191	1,015,061	905,987	1,045,064	1,054,005
341	Manufacture of paper and paper products	2,002,088	2,497,565	5,758,563	4,325,567	4,523,910	3,121,362
342	Printing, publishing and allied industries	624,070	1,003,265	5,260,919	1,863,113	1,721,251	1,879,576
351	Manufacture of industrial chemicals	1,519,750	2,106,610	6,658,417	4,567,484	5,566,616	6,078,426
352	Manufacture of other chemical products	3,800,775	4,348,102	16,549,001	4,535,229	6,504,758	5,615,576
353	Petroleum refineries	8,556,911	8,095,882	13,659,394	11,553,535	22,647,755	22,782,506
354	Manufacture of miscellaneous products of petroleum and coal	163,388	178,406	41,605	23,616	51,089	76,111
355	Manufacture of rubber products	847,045	969,368	3,053,097	2,146,394	2,865,994	2,052,715
356	Manufacture of plastic products	627,240	1,010,780	1,714,044	1,360,706	1,696,051	2,421,140
361	Manufacture of pottery, china and earthenware	156,754	187,689	36,797	351,895	339,242	250,768
362	Manufacture of glass and glass products	299,970	586,073	1,855,166	898,874	1,142,843	1,046,266
363	Manufacture of cement	---	---	1,277,349	1,872,005	2,811,168	2,917,107
369	Manufacture of other non-metallic mineral products	1,642,368	1,781,905	1,033,660	1,202,558	1,258,257	1,037,478
371	Iron and steel basic industries	2,439,748	2,747,806	2,800,265	3,294,440	7,626,681	3,614,060
372	Non-ferrous metal basic industries	388,721	290,854	239,052	983,342	1,103,213	683,578
381	Manufacture of fabricated metal products, except machinery ...	1,375,711	1,707,174	3,626,974	2,715,572	2,561,030	3,033,716
382	Manufacture of machinery except electrical	534,057	643,023	5,347,907	1,475,648	1,304,925	1,695,468
383	Manufacture of electrical machinery apparatus	1,421,889	2,476,735	9,519,705	4,205,594	3,593,387	4,780,003
384	Manufacture of transport equipment	2,405,931	3,385,554	15,043,728	4,773,815	7,295,366	4,700,877
385	Manufacture of professional and scientific and measuring	26,365	77,417	788,783	194,930	134,180	121,203
386	Manufacture of repair of furniture and fixtures primarily	---	---	78,318	165,909	69,032	80,258
390	Other manufacturing industries	124,920	157,926	1,084,904	593,758	729,400	664,903

Note:

a/ Including major group 324.  
 b/ DU 352 and 356.  
 c/ DU 353.  
 d/ DU 361 and 362.  
 e/ DU 372.

f/ Including major group 385 and 386.  
 g/ Total receipts, Philippine Yearbook, 1979.  
 h/ Total receipts.  
 i/ Preliminary data.  
 j/ Total receipts, Philippine Yearbook, 1983.

COUNTRY: PHILIPPINES (National Data)

## Wages and Salaries

Unit: Thousands Pesos

		1976	g/1977	g/1978	1979	1980	g/1981
3		4,074,238	4,631,917	14,672,918	8,014,652	10,755,100	10,745,235
311/312	Food manufacturing	732,577	927,702	3,075,110	1,294,139	1,809,547	2,179,898
313	Beverage manufacturing	198,473	257,491	380,701	399,971	574,511	468,486
314	Tobacco manufacturing	106,790	130,390	165,461	180,186	235,783	231,516
321	Manufacture of textiles	423,107	522,100	1,624,302	1,009,155	1,185,278	993,600
322	Manufacture of wearing apparel, except footwear	256,636	311,421	1,570,216	604,017	1,109,795	1,021,054
323	Manufacture of leather and leather products, leather substi ...	12,883	11,794	37,175	28,181	30,694	32,101
324	Manufacture of footwear, except rubber, plastic or wood...	22,713	23,735	31,742	52,910	58,403	78,664
331	Manufacture of wood and wood and cork products,except furni ...	494,463	242,536	580,890	544,105	779,828	657,662
332	Manufacture and repair of furniture and fixtures ...	77,152	74,086	211,191	211,422	234,887	247,136
341	Manufacture of paper and paper products	105,090	128,232	320,671	234,502	292,626	244,892
342	Printing, publishing and allied industries	123,185	123,760	556,043	252,844	244,071	290,295
351	Manufacture of industrial chemicals	118,032	121,501	361,634	210,837	240,952	255,623
352	Manufacture of other chemical products	291,402	346,462	1,521,387	419,610	632,731	606,738
353	Petroleum refineries	27,656	31,113	45,420	88,485	56,445	107,728
354	Manufacture of miscellaneous products of petroleum and coal	1,230	2,173	5,471	3,718	3,715	5,452
355	Manufacture of rubber products	82,898	98,328	415,848	207,665	334,370	283,611
356	Manufacture of plastic products	73,925	110,317	179,450	121,357	197,904	201,888
361	Manufacture of pottery, china and earthenware	24,714	26,883	5,216	53,002	45,945	44,462
362	Manufacture of glass and glass products	55,758	80,312	249,439	113,397	150,899	112,774
363	Manufacture of cement	---	---	47,941	82,629	158,061	157,680
369	Manufacture of other non-metallic mineral products	109,811	135,758	140,829	203,168	176,851	162,857
371	Iron and steel basic industries	82,537	92,762	197,097	157,868	205,258	237,676
372	Non-ferrous metal basic industries	27,274	23,084	29,383	67,925	88,098	76,630
381	Manufacture of fabricated metal products, except machinery ...	150,390	162,865	393,720	275,323	376,738	401,471
382	Manufacture of machinery except electrical	105,849	109,400	556,042	229,973	289,165	304,613
383	Manufacture of electrical machinery apparatus	157,859	271,213	939,931	403,969	539,218	704,905
384	Manufacture of transport equipment	182,144	235,708	830,478	415,739	621,456	444,373
385	Manufacture of professional and scientific and measuring	5,764	15,916	48,590	37,592	41,119	57,367
386	Manufacture of repair of furniture and fixtures primarily			8,142	11,401	14,798	17,725
390	Other manufacturing industries	36,519	24,875	143,391	99,566	118,674	107,358

## Note:

a/ Including major group 324.  
 b/ DU 352 and 356.  
 c/ DU 353.  
 d/ DU 361 and 362.

e/ Including major group 372.  
 f/ DU 382 and 386.  
 g/ Preliminary data.

COUNTRY: PHILIPPINES (National Data)

## Wages and Salaries

Unit: Thousands Pesos

		1970	1971	1972	1973	1974	1975
3		1,296,449.9	1,555,550.1	1,840,592	2,091,135	2,398,007	2,842,752
311/312	Food manufacturing	248,405.8	290,528.5	370,527	417,000	477,179	611,353
313	Beverage manufacturing	74,529.8	84,809.8	92,150	111,229	131,595	189,810
314	Tobacco manufacturing	58,809.6	68,738.7	75,203	78,924	82,823	81,617
321	Manufacture of textiles	126,008.9	148,675.9	185,314	205,950	313,851	292,515
322	Manufacture of wearing apparel, except footwear	a/ 51,026.6	a/ 68,542.3	47,934	58,802	66,378	110,706
323	Manufacture of leather and leather products, leather substi ...	4,085.7	4,705.0	3,314	5,673	6,248	8,596
324	Manufacture of footwear, except rubber, plastic or wood...			4,962	11,917	10,658	9,516
331	Manufacture of wood and wood and cork products, except furni ...	103,972.9	127,790.6	215,871	153,264	151,768	208,551
332	Manufacture and repair of furniture and fixtures ...	14,126.3	15,366.9	23,959	28,379	32,800	34,624
341	Manufacture of paper and paper products	34,694.1	48,747.8	78,030	65,278	70,558	68,125
342	Printing, publishing and allied industries	63,173.2	72,279.3	53,110	68,507	71,089	66,748
351	Manufacture of industrial chemicals	b/ 150,678.4	b/ 173,430.9	41,879	53,692	53,569	69,339
352	Manufacture of other chemical products			150,347	165,147	200,052	229,380
353	Petroleum refineries			19,431	17,028	24,804	40,693
354	Manufacture of miscellaneous products of petroleum and coal	c/ 16,936.6	c/ 21,762.0	468	1,005	739	1,316
355	Manufacture of rubber products	32,434.1	34,148.0	43,542	50,320	60,658	58,758
356	Manufacture of plastic products			28,811	32,700	46,964	71,914
361	Manufacture of pottery, china and earthenware			4,019	6,912	9,780	13,488
362	Manufacture of glass and glass products			36,941	37,974	43,980	50,875
363	Manufacture of cement			---	---	---	---
369	Manufacture of other non-metallic mineral products	d/ 65,459.0	d/ 87,850.9	48,713	72,845	72,256	73,829
371	Iron and steel basic industries	49,422.1	54,430.0	37,480	63,381	72,848	45,642
372	Non-ferrous metal basic industries			1,619	17,594	21,717	7,581
381	Manufacture of fabricated metal products, except machinery ...	e/ 51,560.2	e/ 77,091.2	68,396	89,945	77,985	127,943
382	Manufacture of machinery except electrical	21,415.9	24,082.9	42,394	49,838	63,197	81,501
383	Manufacture of electrical machinery apparatus	51,642.4	64,902.0	72,394	81,939	107,470	125,063
384	Manufacture of transport equipment	50,001.1	55,508.9	73,367	68,558	94,316	131,145
385	Manufacture of professional and scientific and measuring			2,220	3,131	3,810	5,040
386	Manufacture of repair of furniture and fixtures primarily			---	---	---	---
390	Other manufacturing industries	f/ 25,069.2	f/ 30,212.5	12,281	13,100	16,897	22,134

COUNTRY: PHILIPPINES (National Data)

Value Added

Unit: Thousands Pesos

		1970	1971	1972	1973	1974	1975
3		9,588,815.6	7,438,091.4	8,037,384	11,225,469	15,647,202	21,029,690
311/312	Food manufacturing	2,364,676.2	1,869,388.4	2,315,184	2,917,781	4,861,544	4,756,953
313	Beverage manufacturing	342,829.1	586,699.1	436,419	643,164	871,583	2,886,236
314	Tobacco manufacturing	454,226.6	543,943.7	542,844	541,762	967,554	1,301,301
321	Manufacture of textiles	699,527.1	505,799.9	631,770	950,135	1,186,628	1,343,301
322	Manufacture of wearing apparel, except footwear	a/ 175,375.1	a/ 161,732.5	86,140	126,927	150,901	231,148
323	Manufacture of leather and leather products, leather substi ...	21,945.9	12,002.8	9,994	17,581	17,761	26,464
324	Manufacture of footwear, except rubber, plastic or wood...			13,918	22,279	23,735	19,371
331	Manufacture of wood and wood and cork products, except furni ...	405,447.8	313,803.8	642,453	528,732	485,110	702,447
332	Manufacture and repair of furniture and fixtures ...	29,846.3	30,951.4	54,193	57,690	75,279	82,529
341	Manufacture of paper and paper products	323,112.9	200,988.6	293,727	319,832	549,574	499,947
342	Printing, publishing and allied industries	146,974.8	181,099.5	169,371	216,626	263,075	160,593
351	Manufacture of industrial chemicals	b/ 1,374,639.2	b/ 980,780.7	193,982	539,342	446,780	517,844
352	Manufacture of other chemical products			703,857	799,254	1,120,883	914,390
353	Petroleum refineries			468,281	803,152	1,254,383	3,215,382
354	Manufacture of miscellaneous products of petroleum and coal	c/ 927,758.6	c/ 440,769.2	2,882	19,558	26,368	13,547
355	Manufacture of rubber products	210,606.2	156,455.5	186,706	216,537	320,548	309,221
356	Manufacture of plastic products			111,128	113,759	176,057	276,746
361	Manufacture of pottery, china and earthenware			10,807	21,748	39,906	76,455
362	Manufacture of glass and glass products			116,696	182,989	169,370	121,304
363	Manufacture of cement			---	---	---	---
369	Manufacture of other non-metallic mineral products	d/ 228,183.0	d/ 350,601.5	328,929	316,929	430,647	544,977
371	Iron and steel basic industries	651,539.8	182,046.4	208,006	482,661	417,430	571,247
372	Non-ferrous metal basic industries			6,880	90,753	130,577	76,419
381	Manufacture of fabricated metal products, except machinery ...	e/ 348,360.8	e/ 234,815.4	323,672	364,010	338,757	521,346
382	Manufacture of machinery except electrical	55,400.9	71,002.8	137,778	158,941	323,111	375,922
383	Manufacture of electrical machinery apparatus	291,498.0	282,767.9	256,002	310,251	475,433	542,921
384	Manufacture of transport equipment	411,988.2	240,963.6	352,077	303,104	461,085	795,818
385	Manufacture of professional and scientific and measuring			6,880	10,511	14,709	13,909
386	Manufacture of repair of furniture and fixtures primarily			---	---	---	---
390	Other manufacturing industries	f/ 124,878.2	f/ 91,478.7	26,809	39,092	48,404	72,018

COUNTRY: PHILIPPINES (National Data)

Value Added

Unit: Thousands Pesos

		1976	g/1977	g/1978	1979	1980	g/1981
3		13,607,108	12,543,820	62,064,450	31,747,024	43,852,015	39,995,896
311/312	Food manufacturing	2,533,645	2,484,949	14,436,303	6,403,018	7,993,581	7,681,626
313	Beverage manufacturing	1,432,823	1,834,420	2,200,532	1,824,304	2,442,837	3,060,574
314	Tobacco manufacturing	610,697	675,938	1,784,030	2,140,300	2,683,700	2,448,150
321	Manufacture of textiles	1,065,207	725,224	5,519,434	3,111,911	2,954,929	2,820,150
322	Manufacture of wearing apparel, except footwear	424,609	558,474	3,010,604	1,409,987	1,915,906	3,172,351
323	Manufacture of leather and leather products, leather substi ...	20,990	17,413	104,640	69,500	64,081	64,167
324	Manufacture of footwear, except rubber, plastic or wood...	28,741	44,569	111,572	116,598	119,204	360,282
331	Manufacture of wood and wood and cork products, except furni ...	552,009	505,078	1,655,793	1,476,957	1,949,730	1,539,695
332	Manufacture and repair of furniture and fixtures ...	128,543	132,641	463,076	376,152	464,329	518,535
341	Manufacture of paper and paper products	770,860	633,693	2,102,786	1,609,220	1,426,776	711,136
342	Printing, publishing and allied industries	191,156	293,966	2,180,311	652,035	802,252	795,617
351	Manufacture of industrial chemicals	57,036	365,960	2,968,092	1,887,273	2,296,417	2,282,385
352	Manufacture of other chemical products	1,441,856	1,102,179	7,201,090	1,604,173	2,571,357	1,741,915
353	Petroleum refineries	1,276,010	n.a.	578,988	774,184	2,399,144	3,228,380
354	Manufacture of miscellaneous products of petroleum and coal	36,177	46,929	15,865	9,291	15,579	20,533
355	Manufacture of rubber products	281,134	279,533	1,154,484	676,730	1,087,184	843,143
356	Manufacture of plastic products	144,568	230,458	557,575	471,175	580,966	1,133,563
361	Manufacture of pottery, china and earthenware	74,773	43,305	12,468	199,053	205,183	131,606
362	Manufacture of glass and glass products	40,356	172,317	920,484	422,923	392,578	355,606
363	Manufacture of cement	---	---	488,646	600,966	730,693	721,621
369	Manufacture of other non-metallic mineral products	492,023	331,811	535,221	548,818	502,622	446,114
371	Iron and steel basic industries	424,960	195,980	858,354	456,616	4,101,570	572,359
372	Non-ferrous metal basic industries	76,062	76,912	88,826	265,651	364,860	140,874
381	Manufacture of fabricated metal products, except machinery ...	315,044	347,809	1,047,949	621,840	945,600	961,817
382	Manufacture of machinery except electrical	180,437	193,609	2,552,426	619,527	599,928	819,518
383	Manufacture of electrical machinery apparatus	404,993	593,834	4,524,325	1,348,283	1,713,804	1,473,301
384	Manufacture of transport equipment	563,100	603,836	3,991,844	1,563,076	2,394,978	1,577,918
385	Manufacture of professional and scientific and measuring	6,801	27,203	505,587	127,275	95,136	54,482
386	Manufacture of repair of furniture and fixtures primarily	---	---	24,904	121,944	30,337	32,421
390	Other manufacturing industries	32,498	33,873	468,235	240,238	302,674	286,210

Note:

a/ Including major group 324.  
DU 352 and 356.  
DU 353.  
DU 361 and 362.

b/

Including major group 372  
DU 385 and 386.  
Preliminary data.

COUNTRY: PHILIPPINES (National Data)

Gross Fixed Capital Formation a/

Unit: Thousands Pesos

		1970	1971	1972	1973	1974	h/ 1975
3		1,342,435.5	1,178,626.1		1,462,719	2,133,569	2,730,673
311/312	Food manufacturing	255,331.6	309,222.7		388,218	370,857	542,593
313	Beverage manufacturing	25,097.3	44,499.4		62,972	86,254	88,807
314	Tobacco manufacturing	39,167.9	42,304.7		52,259	66,554	52,241
321	Manufacture of textiles	91,937.3	87,053.2		191,100	340,012	585,339
322	Manufacture of wearing apparel, except footwear	b/ 8,792.0	b/ 10,902.8		10,596	9,215	56,511
323	Manufacture of leather and leather products, leather substi ...	456.9	1,131.2		998	556	1,002
324	Manufacture of footwear, expect rubber, plastic or wood...				396	546	17,027
331	Manufacture of wood and wood and cork products,except furni ...	67,235.5	74,760.2		106,915	109,375	187,491
332	Manufacture and repair of furniture and fixtures ...	730.1	2,669.3		3,631	3,620	16,140
341	Manufacture of paper and paper products	57,379.0	37,354.5		41,336	57,100	44,367
342	Printing, publishing and allied industries	6,345.0	15,707.7		33,854	31,994	22,316
351	Manufacture of industrial chemicals	c/ 70,609.5	c/ 95,905.6		104,051	88,985	75,643
352	Manufacture of other chemical products				60,961	64,038	60,044
353	Petroleum refineries				82,898	87,477	56,545
354	Manufacture of miscellaneous products of petroleum and coal	d/ 173,392.6	d/ 176,789.7		85	329	793
355	Manufacture of rubber products	11,345.1	23,704.5		44,830	27,823	37,493
356	Manufacture of plastic products				15,109	42,778	68,012
361	Manufacture of pottery, china and earthenware				14,252	4,553	170,591
362	Manufacture of glass and glass products				23,592	28,487	20,555
363	Manufacture of cement						
369	Manufacture of other non-metallic mineral products	e/ 158,057.0	e/ 91,979.2		68,359	334,229	55,245
371	Iron and steel basic industries	273,747.6	61,105.0		36,780	145,161	80,221
372	Non-ferrous metal basic industries				14,583	11,981	5,110
381	Manufacture of fabricated metal products, except machinery ...	f/ 14,478.8	f/ 16,936.0		23,351	27,615	79,026
382	Manufacture of machinery except electrical	6,640.3	12,936.0		11,960	58,350	38,716
383	Manufacture of electrical machinery apparatus	56,656.9	40,579.3		31,549	45,181	59,048
384	Manufacture of transport equipment	9,704.1	16,182.9		35,529	80,196	292,546
385	Manufacture of professional and scientific and measuring				695	3,336	2,023
386	Manufacture of repair of furniture and fixtures primarily						
390	Other manufacturing industries	g/ 15,330.1	g/ 16,902.2		1,936	6,946	8,615

COUNTRY: PHILIPPINES (National Data)

## Gross Fixed Capital Formation a/

Unit: Thousands Pesos

		1976	i/1977	h/i/1978	1979	1980	i/1981
3		2,044,425	2,736,805	15,064,598	5,727,859	9,070,784	8,033,335
311/312	Food manufacturing	466,949	556,808	2,703,780	1,025,042	1,131,449	1,207,987
313	Beverage manufacturing	71,003	205,771	292,222	341,099	972,892	313,290
314	Tobacco manufacturing	48,720	170,325	38,403	39,924	131,019	151,884
321	Manufacture of textiles	576,552	331,146	4,784,557	1,212,808	1,016,155	568,104
322	Manufacture of wearing apparel, except footwear	28,147	38,676	896,617	103,600	162,729	1,218,228
323	Manufacture of leather and leather products, leather substi ...	3,643	2,294	40,045	6,250	9,197	5,114
324	Manufacture of footwear, except rubber, plastic or wood...	11,469	1,633	14,386	6,831	10,419	4,142
331	Manufacture of wood and wood and cork products, except furni ...	159,950	82,583	801,301	246,924	330,020	516,535
332	Manufacture and repair of furniture and fixtures ...	12,184	21,541	81,504	60,425	74,852	30,200
341	Manufacture of paper and paper products	154,654	111,142	428,493	268,588	308,901	231,522
342	Printing, publishing and allied industries	62,923	66,468	803,828	114,205	145,039	65,188
351	Manufacture of industrial chemicals	283,036	192,590	308,513	223,752	617,682	739,130
352	Manufacture of other chemical products	102,463	131,883	820,386	199,972	363,818	187,475
353	Petroleum refineries	43,658	55,324	92,464	132,010	157,562	137,316
354	Manufacture of miscellaneous products of petroleum and coal	1,680	9,510	1,563	760	140	1,151
355	Manufacture of rubber products	113,447	28,292	181,727	63,901	105,475	87,635
356	Manufacture of plastic products	31,331	75,314	408,833	75,306	80,336	74,266
361	Manufacture of pottery, china and earthenware	20,467	43,867	2,270	44,671	215	64,049
362	Manufacture of glass and glass products	36,309	41,967	164,299	185,520	124,368	135,979
363	Manufacture of cement			314,748	90,295	206,558	339,867
369	Manufacture of other non-metallic mineral products	372,229	89,105	102,837	64,213	281,163	70,816
371	Iron and steel basic industries	55,239	90,100	188,970	80,170	1,128,738	1,060,829
372	Non-ferrous metal basic industries	7,623	11,238	33,102	77,546	86,979	86,811
381	Manufacture of fabricated metal products, except machinery ...	43,278	50,325	239,457	92,407	47,759	137,028
382	Manufacture of machinery except electrical	41,517	45,431	597,439	93,943	67,418	63,727
383	Manufacture of electrical machinery apparatus	83,290	125,855	669,555	230,279	871,883	322,741
384	Manufacture of transport equipment	98,427	154,041	603,818	635,833	671,093	155,497
385	Manufacture of professional and scientific and measuring	1,105	357	14,589	54,070	42,034	32,546
386	Manufacture of repair of furniture and fixtures primarily			3,540	4,722	2,285	5,469
390	Other manufacturing industries	13,138	3,159	25,350	15,793	22,006	9,209

Note:

a/ Capital expenditure.  
b/ Including major group 324.  
c/ DU 352 and 356.  
d/ DU 353.  
e/ DU 361 and 362.

f/ Including major group 372.  
g/ DU 385 and 386.  
h/ Philippine Yearbook, 1983.  
i/ Preliminary data.



III. Convertors between ISIC and National Industrial  
Classification

<u>ISIC</u>	<u>PSIC</u>	<u>PSIC Sector</u>
3	3	MANUFACTURING
31	31	MANUFACTURE OF FOOD, BEVERAGES, AND TOBACCO
311	311	FOOD MANUFACTURING (INCLUDING 312)
3111	3111	SLAUGHTERING, PREPARING AND PRESERVING MEAT
3112	3112	MANUFACTURING OF FERMENTED MILK AND DAIRY PRODUCTS
3112	3113	MANUFACTURING OF PROCESSED MILK AND DAIRY PRODUCTS
3113	3114	CANNING AND PRESERVING OF FRUITS AND VEGETABLES
3114	3115	CANNING, PRESERVING & PROCESSING OF FISH, CRUSTACEA & OTHER
3115	3116	PRODUCTION OF CRUDE COCONUT OIL, INCLUDING CAKE & MEAL
3115	3117	PRODUCTION OF CRUDE COCONUT OIL, INCLUDING CAKE & MEAL
3116	3118	RICE AND CORN MILLING
3116	3119	FLOUR MILLING AND MANUFACTURE OF OTHER GRAIN MILL PRODUCTS
3116	3121	FLOUR MILLING AND MANUFACTURE OF OTHER GRAIN MILL PRODUCTS
3117	3122	MANUFACTURE OF BAKERY PRODUCTS
3118	3123	SUGAR MILLING & REFINING
3119	3124	MANUFACTURE OF COCOA, CHOCOLATE & SUGAR CONFECTIONERY
3121	3125	MANUFACTURE OF DESICCATED COCONUT
3121	3126	MANUFACTURE OF ICE, EXCEPT DRY ICE
3121	3127	COFFEE ROASTING & PROCESSING
3121	3129	FOOD MANUFACTURING N.E.C.
3122	3128	MANUFACTURE OF PREPARED AND UNPREPARED ANIMAL FEEDS
313	313	BEVERAGE MANUFACTURING
3131	3131	DISTILLING, RECTIFYING AND BLENDING SPIRITS
3132	3132	WINE MANUFACTURING
3133	3133	MALT LIQUORS & MALT
3134	3134	SOFT DRINKS AND CARBONATED WATER MANUFACTURING
314	314	TOBACCO MANUFACTURING
3140	3141	MANUFACTURE OF CIGARETTES
3140	3142	MANUFACTURE OF CIGARS
3140	3143	MANUFACTURE OF CHEWING & SMOKING TOBACCO, SNUFF
3140	3144	CURING & REDRYING TOBACCO LEAVES
3140	3149	TOBACCO MANUFACTURING N.E.C.
32		
321	321	MANUFACTURE OF TEXTILES
3211	3211	SPINNING, WEAVING, TEXTURIZING AND FINISHING TEXTILES
3212	3213	MANUFACTURE OF MAKE-UP TEXTILE GOODS EXCEPT WEARING APPAREL
3213	3212	KNITTING MILLS
3214	3214	MANUFACTURE OF CARPETS & RUGS
3215	3215	CORDAGE, ROPE AND TWINE MANUFACTURING
3219	3216	MNF. OF ARTIFICIAL LEATHER, CIL CLCING OTHER IMPREGNATED FABRIC
3219	3217	MNF. OF FIBER BATTING, PADDING & UNFELT STERY FILLING INCL. COIR
3219	3219	MANUFACTURE OF TEXTILES N.E.C.
322	322	MANUFACTURE OF WEARING APPAREL, EXCEPT FOOTWEAR
3220	3221	CUSTOM TAILORING & DRESSMAKING SHOPS
3220	3222	READY-MADE CLOTHING MANUFACTURING
323	323	MANUFACTURE OF LEATHER & LEATHER PRODUCTS, LEATHER SUBSTITUTE
3231	3231	TANNERIES & LEATHER FINISHING
3232		
3233	3232	MNF OF PROD. OF LEATHER & LEATHER SUBSTITUTE EXCEPT FOOTWEAR
324	324	MNF OF FOOTWEAR, EXCEPT RUBBER, PLASTIC OR WOOD FOOTWEAR
3240	3241	MANUFACTURE OF LEATHER SHOES
3240	3249	MNF OF FOOTWEAR (EXCEPT RUBBER, PLASTIC OR WOOD FOOTWEAR), NEC
33		
331	331	MANUFACTURE OF WOOD, & WOOD & CORK PRODUCTS, EXCEPT FURNITURE
3311	3311	SAWMILLS & PLANING MILLS

3311	3312	MANUFACTURE OF PINEER & FLYWOOD
3311	3313	MANUFACTURE OF HARDBOARD & PARTICLEBOARD
3311	3314	WOOD DRYING & PRESERVING PLANTS, SUCH AS CHECKING & TREAT
3311	3315	MILLWORK PLANTS
3312	3316	MANUFACTURE OF WOODEN & CANE CONTAINERS & SMALL CANE WARES
3319	3317	MANUFACTURE OF WOOD CABINING
3319	3319	MANUFACTURE OF WOOD, CORK & CANE PRODUCTS, N.E.C.
332	332	MNF. & REPAIR OF FURNITURE & FIXTURES
3320	3321	MNF. & REPAIR OF WOOD FURNITURE INCLUDING UPHOLSTERY
3320	3322	MNF. & REPAIR OF WATTEN FURNITURE (FEED, WICKER & CANE)
3320	3323	MANUFACTURE OF BOX BEDS & MATTRESSES
3320	3324	MNF. OF PARTITIONS, SHEEVES, LOCKERS & OFFICE & STORE FIXTURES
3320	3325	MNF. OF WINDOW & DOOR SCREENS, SHADES & VENETIAN BLINDS
3320	3329	MNF. & REPAIR OF FURNITURE & FIXTURES, EXCEPT PRIMARILY OF METAL
34	34	MNF. OF PAPER & PAPER PRODUCTS; PRINTING & PUBLISHING
341	341	MANUFACTURE OF PAPER & PAPER PRODUCTS
3411	3411	MANUFACTURE OF PULP, PAPER & PAPERBOARD
3412	3412	MANUFACTURE OF CONTAINERS & BOXES OF PAPER & PAPER BOARD
3412	3413	MANUFACTURE OF ARTICLES OF PAPER
3412	3414	MANUFACTURE OF ARTICLES OF PAPERBOARD
3419	3419	MANUFACTURE OF PULP, PAPER, PAPERBOARD ARTICLES, N.E.C.
342	342	PRINTING, PUBLISHING AND ALLIED INDUSTRIES
3420	3421	PRINTING OF NEWSPAPERS & PERIODICALS
3420	3422	PRINTING & PUBLISHING OF BOOKS & PAMPHLETS
3420	3423	COMMERCIAL & JOB PRINTING
3420	3429	PRINTING, PUBLISHING & ALLIED INDUSTRIES, N.E.C.
35	35	MNF. OF CHEMICALS & CHEMICAL PETROLEUM, COAL, RUBBER PRODUCTS
351	351	MANUFACTURE OF INDUSTRIAL CHEMICALS
3511	3511	MANUFACTURE OF BASIC INDUSTRIAL CHEMICALS EXCEPT FERTILIZERS
3512	3512	MANUFACTURE OF FERTILIZERS
3512	3514	MNF. OF PESTICIDES, INSECTICIDES, FUNGICIDES & HERBICIDES
3513	3513	MNF. OF SYNTHETIC RESINS, PLASTIC MATERIALS & MAN-MADE FIBER
352	352	MANUFACTURE OF OTHER CHEMICAL PRODUCTS
3521	3521	MANUFACTURE OF PAINTS, VARNISHES & LACQUERS
3522	3522	MANUFACTURE OF DRUGS & MEDICINES
3523	3523	MNF. OF SOAP & CLEANSING, PREPARATIONS, PERFUMS, COSMETICS
3529	3529	MANUFACTURE OF OTHER CHEMICAL PRODUCTS, N.E.S.
353	353	PETROLEUM REFINERIES
3530		
354	354	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM & COAL
3540	3540	MANUFACTURE OF MISCELLANEOUS PRODUCTS OF PETROLEUM & COAL
355	355	MANUFACTURE OF RUBBER PRODUCTS
3551	3551	TYRE & TUBE MANUFACTURING
3559	3552	MANUFACTURE OF RUBBER FOOTWEAR
3559	3559	MANUFACTURE OF RUBBER PRODUCTS N.E.C.
356	356	MANUFACTURE OF PLASTIC PRODUCTS N.E.C.
3560	3560	MANUFACTURE OF PLASTIC PRODUCTS
36	36	MNF. OF NON-METALLIC MINERAL PROD., EXCEPT INCL. OF PETROLEUM
361	361	MANUFACTURE OF POTTERY, CHINA, AND EARTHENWARE
3610	3610	MANUFACTURE OF POTTERY, CHINA & EARTHENWARE
362	362	MANUFACTURE OF GLASS & GLASS PRODUCTS
3620	3620	MANUFACTURE OF GLASS & GLASS PRODUCTS
369	369	MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS
3691	3691	MANUFACTURE OF STRUCTURAL CLAY PRODUCTS
3692	3630	MANUFACTURE OF CEMENT

3699	3692	MANUFACTURE OF STRUCTURAL CONCRETE PRODUCTS
3699	3699	MANUFACTURE OF NON-METALLIC MINERAL PRODUCTS N.E.C.
37	37	BASIC METAL INDUSTRIES
371	371	IRON & STEEL BASIC INDUSTRIES
3710	3711	ELAST FURNACES & STEEL MAKING FURNACES
3710	3712	STEEL WORKS & ROLLING MILLS
3710	3713	IRON & STEEL FOUNDRIES
3710	3719	IRON & STEEL BASIC INDUSTRIES, N.E.C.
372	372	NON-FERROUS METAL BASIC INDUSTRIES
3720	3721	GOLD & OTHER PRECIOUS METAL REFINING
3720	3722	NON-FERROUS SMELTING & REFINING PLANTS, EXCEPT PRECIOUS METAL
3720	3723	NON-FERROUS ROLLING, DRAWING & EXTRUSION MILLS
3720	3724	NON-FERROUS FOUNDRIES
3720	3729	NON-FERROUS METAL BASIC INDUSTRIES, N.E.C.
38	38	MNF. OF FABRICATED METAL PRODUCTS, MACHINERY & EQUIPMENT
381	381	MNF. OF FABRICATED METAL PRODUCTS, EXCEPT MACHINERY & EQUIPT
3811	3811	MANUFACTURE OF CUTLERY, HAND TOOLS & GENERAL HARDWARE
3812	3860	MNF. & REPAIR OF FURNITURE & FIXTURES PRIMARILY OF METAL
3813	3812	MANUFACTURE OF STRUCTURAL METAL PRODUCTS
3819	3813	MANUFACTURE OF METAL CONTAINERS
3819	3814	METAL STAMPING, COATING & ENGRAVING MILLS
3819	3815	MANUFACTURE OF FABRICATED WIRE PRODUCTS
3819	3816	MANUFACTURE OF NON-ELECTRIC LIGHTING & HEATING FIXTURES
3819	3819	MNF. OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY & EQUIPT.
382	382	MANUFACTURE OF MACHINERY EXCEPT ELECTRICAL
3821	3821	MNF. OF ENGINES & TURBINES, EXCEPT FOR TRANSPORT EQUIPMENT
3822	3822	MANUFACTURE OF AGRICULTURAL MACHINERY & EQUIPMENT
3823	3823	MANUFACTURE OF METAL- AND WOOD-WORKING MACHINERY
3824	3824	MNF. OF SPECIAL INDUSTRIAL MACHINERY & EQUIPMENT
3825	3825	MANUFACTURE OF OFFICE, COMPUTING & ACCOUNTING MACHINERY
3829		MNF. OF MACHINERY & EQUIPMENT EXCEPT ELECTRICAL, N.E.C.
383	383	MNF. OF ELECTRICAL MACHINERY APPARATUS, APPLIANCES & SUPPLIES
3831	3831	MANUFACTURE OF ELECTRICAL INDUSTRIAL MACHINERY & APPARATUS
3832	3832	MNF. OF RADIO, TELEVISION & COMMUNICATION EQUIPMENT & APPARATUS
3833	3833	MANUFACTURE OF ELECTRICAL APPLIANCES & HOUSEHOLDS
3839	3834	MANUFACTURE OF PRIMARY CELLS & BATTERIES
3839	3835	MANUFACTURE OF ELECTRIC ACCUMULATORS
3839	3836	MANUFACTURE OF ELECTRIC WIRES & WIRE DEVICES
3839	3839	MANUFACTURE OF ELECTRICAL APPARATUS & SUPPLIES N.E.C.
384	384	MANUFACTURE OF TRANSPORT EQUIPMENT
3841	3841	SHIPBUILDING & REPAIRING
3842	3842	MANUFACTURE OF RAILROAD EQUIPMENT
3843	3843	MANUFACTURE & ASSEMBLY OF MOTOR VEHICLES
3843	3844	REBUILDING & MAJOR ALTERATION OF MOTOR VEHICLES
3843	3845	MANUFACTURE OF MOTOR VEHICLE PARTS & ACCESSORIES
3844	3846	MANUFACTURE OF MOTORCYCLES & BICYCLES
3845	3847	MANUFACTURE OF AIRCRAFT
3849	3849	MANUFACTURE OF TRANSPORT EQUIPMENT N.E.C.
385	385	MNF. OF PROFESSIONAL & SCIENTIFIC & MEASURING EQUIPMENT NEC
3851	3851	MNF. OF PROFESSIONAL & SCIENTIFIC & MEASURING EQUIPMENT NEC
3851	3904	MNF. OF SURGICAL, DENTAL, MEDICAL & ORTHOPEDIC SUPPLIES
3852	3852	MANUFACTURE OF PHOTOGRAPHIC & OPTICAL INSTRUMENTS
3852	3905	MANUFACTURE OF OPHTHALMIC GOODS, E.G., EYEGLASSES & SPECTACLES
3853	3853	MANUFACTURE OF WATCHES & CLOCKS
39	39	OTHER MANUFACTURING INDUSTRIES

390	390	OTHER MANUFACTURING INDUSTRIES
3901	3901	MANUFACTURE OF JEWELLERY & RELATED ARTICLES
3902	3902	MANUFACTURE OF MUSICAL INSTRUMENTS
3903	3903	MANUFACTURE OF SPORTING & ATHLETIC GOODS
3909	3906	MANUFACTURE OF TOYS & DOLLS, EXCEPT RUBBER & PLASTIC TOYS
3909	3907	MANUFACTURE OF STATIONERS', ARTISTS' & OFFICE SUPPLIES
3909	3909	MANUFACTURING INDUSTRIES N.E.C.

**IV. Commodity Balance Sheets**

List of Commodities

<u>Table No.</u>	<u>Commodity</u>	<u>ISIC Code</u>	<u>SITC Code (Rev. 1)</u>
1.	Fish, tinned	311407	03201
2.	Margarine, imitation lard and other prepared fats	311501	0914
3.	Oils of vegetable origin	311510 311513 311516 311519 311522 311525 311528 311531 311534 311537 311601	4212 4213 4214 4215 422 04601 05545 05171
4.	Wheat flour		0611
5.	Cassava starch		0722
6.	Disiccate coconut		07232
7.	Raw sugar	311801	2219
8.	Cocoa powder	311907	0713
9.	Cocoa butter	311910	08199
10.	Copra meal and cake		1123
11.	Coffee, soluble, instant	312101	1222
12.	Prepared animal feeds	312201	4223
13.	Beer	313304	6513
14.	Cigarettes	314007	6521
15.	Coconut oil, crude		6514
16.	Cotton yarn, pure and mixed	321109	6537
17.	Man-made fibers, yarns and thread	321119	65561
18.	Cotton fabrics	321128	6311
19.	Cotton yarns	321109	6311
20.	Fabrics (Knitted)	321301	6312
21.	Rope and cordage	321501	672
22.	Veneer sheets	331110	673
23.	Venners, plywood boards	331110 331116	674 675 676 677 678
24.	Steel basic forms and shapes	341019	2512
25.	Wood pulp, mechanical	341101	

26.	Wood pulp, sulphate and soda	341110	2517
27.	Newsprint	341119	6411
28.	Other printing and writing paper	341122	6412
29.	Kraft paper and kraft paperboard	341125	6413
30.	Glycerine	351125	51226
31.	Sulfuric acid	351147	51333
32.	Caustic soda	351159	51362
33.	Fertilizer	351201	
		351204	
		351207	561
		351210	
34.	Nitrogenous fertilizers	351201	5611
35.	Phosphatic fertilizers	351204	56129
		351207	
36.	Non-cellulosic staple and tow	351304	26621
			26622
37.	Soaps	352301	5541
38.	Synthetic detergent	352304	5542
39.	Inks, printing, duplicating	352904	5332
40.	Motor gasoline	353007A	Part of SITC Code 3321
41.	Kerosene	353013A	Part of SITC Code 3322
42.	Fuel oils, distillate	353019A	Part of SITC Code 3323
43.	Residual fuel oil	353022A	3324
44.	Lubricationg oils	353025A	3325
45.	Liquefired petroleum gas	353037A	Part of SITC Code 3411
46.	Rubber tires	355104	
		355107	6291
		355110	
47.	Cement	369204	6612
48.	Wire nails, steel	369204	6612
49.	Air-conditioner, room, window	382925A	71912
50.	Household refrigerator	382958	71942
			72501
51.	Television receiving sets	383201	7241
52.	Radio receivers	383204	7242
53.	Storage battery	383913	72912
54.	Motor vehicles	384307	7321
		384310	7322
		384312	7323
		384313	7324
		384315	7325
		384316	
55.	Motorcycle	384401	73291



Data Source:

2. UN, Yearbook of Industrial Statistics, Vol. II. Commodity Production Statistics.
4. AIDXT(International trade Data base compiled by IDE based on the magnetic tapes. of international trade statistics supplied by UN and OECD)
11. National Economic and Development Authority  
Philippine Statistical Yearbook.  
National Census and Statistics Office  
Philippine Yearbook.
12. National Census and statistics Office, Foreign trade Statistics of the Philippines.

Country: Philippines

Commodity: Fish, tinned

No. 1

ISIC Code	311407								Note:
NSIC Code									
SITC Code	93201								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TMa/		TMa/	TMa/			1000\$b/	1000\$b/	
1970	17300		69	68052			29	17961	
1971	21100		234	74610			134	22079	
1972	22400		143	68183			94	21152	
1973	13200		452	39879			402	21176	
1974	6800		569	47108			762	33376	
1975	8400		489	58194			645	36838	
1976	8500		684	45360			925	35370	
1977	20100		430	23596			575	21835	
1978	21600		3860	28136			5169	24171	
1979	17400		4481	20626			7129	19094	
1980	20900		11555	27608			30171	27648	
1981	21400		18550	28667			53091	30157	
1982	-		19942	33743			47539	37357	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

a/ Metric tons

b/ U.S. dollars

Country: Philippines

Commodity: Margarine, imitation lard and other prepared fats

No. 2

ISIC Code	311501								Note:
NSIC Code									
SITC Code	291.4								
NSTC Code	0910100 (1970-1976)				0914100 (1977-1983)				
	Quantity				Value				
Source	11		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH			1000\$	1000\$	
1970	30400		-	-			-	-	
1971	30200		-	-			-	-	
1972	30800		-	-			-	-	
1973	38500		-	-			-	-	
1974	24800		-	-			-	-	
1975	30600		-	-			-	-	
1976	34700		-	-			-	-	
1977	32800		168	3			146	8	
1978	64900		42	16			42	16	
1979	22100		8	5			11	9	
1980	24100		130	2			134	4	
1981	-		479	1			464	2	
1982	-		676	47			628	40	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Oils of vegetable origin

No. 3

ISIC Code	311510, 311513, 311516, 311519, 311522, 311525, 311528, 311531, 311534, 311537								Note:
NSIC Code									
SIIC Code	4212, 4213, 4214, 4215, 422								
NSTC Code									
Source	Quantity				Value				
	2		4	4			4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM		TM	TM			1000\$	1000\$	
1970	382000		339636	9548			37582	2731	
1971	573000		397181	12510			103407	3748	
1972	500000		467626	6693			84582	1743	
1973	649000		430503	6137			152663	2176	
1974	659000		416156	6294			380775	4943	
1975	-		615135	2883			230741	2840	
1976	-		990571	3648			298725	2911	
1977	1012000		769690	6462			412255	5279	
1978	618000		1017120	7539			620640	5893	
1979	525000		803638	11214			742704	9144	
1980	571000		918933	15033			567457	12095	
1981	417000		1040050	15453			533550	10899	
1982	-		921327	1993			401130	10827	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Wheat flour

No. 4

ISIC Code	311601								Note:  a/ Pesos
NSIC Code									
SITC Code	046.01								
HSTC Code	046								
	Quantity				Value				
Source	11	11	4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000PE <sup>a</sup>		1000\$	1000\$	
1970	387043	382349	100	8476	297173		11	816	
1971	418612	414069	-	10453	347248		-	1076	
1972	417895	409237	-	9575	350848		-	912	
1973	400304	394757	-	16005	544072		-	1911	
1974	346076	337066	1	24818	787257		1	5518	
1975	396541	389363	-	13055	967953		-	4214	
1976	464505	449178	1	8589	1122638		2	1783	
1977	482875	471522	1	13995	1148014		1	3390	
1978	442805	-	-	9202	1026662		-	2448	
1979	582163	-	-	19722	1442629		-	5264	
1980	570158	-	-	9150	1504848		-	3193	
1981	-	-	1	13085	-		1	4412	
1982	-	-	-	13402	-		-	5399	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Cassava starchNo. 5

ISIC Code									Note:  a/ Kilograms b/ Pesos
NSIC Code									
SITC Code	05545								
NSTC Code									
Source	Quantity				Value				
	11	11	4	4	11	4	4	4	
Unit	Production 1000KGM <sup>a</sup>	Shipment 1000KGM <sup>a</sup>	Export 1000KGM <sup>a</sup>	Import 1000KGM <sup>a</sup>	Production 1000PE <sup>b</sup>	Shipment 1000\$	Export 1000\$	Import 1000\$	
1970	-	-	3211	28	-		287	11	
1971	-	-	714	2635	-		92	284	
1972	-	-	436	7622	-		63	786	
1973	-	-	2	2828	-		4	367	
1974	-	-	1	4260	-		2	719	
1975	16863	17420	2	4203	34708		2	788	
1976	17391	12964	3	2013	28594		3	360	
1977	15738	16576	3	5	36407		2	7	
1978	21775	-	3	3	39479		5	7	
1979	25803	-	1	5	56171		2	10	
1980	18428	-	4	4	38700		5	9	
1981	-	-	4	3	-		6	6	
1982	-	-	5	3	-		7	7	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	



Country: PhilippinesCommodity: Raw sugar

No. 7

ISIC Code	311801								Note:
NSIC Code									
SITC Code	0611								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	10TM		10TM	10TM			1000\$	1000\$	
1970	-		122757	-			187053	-	
1971	-		137078	-			217549	-	
1972	-		124244	-			214170	-	
1973	209300		147034	-			273968	-	
1974	265600		154208	-			737365	-	
1975	267200		97222	-			580736	-	
1976	298400		145600	-			428522	-	
1977	262400		241900	-			506360	-	
1978	227300		112425	-			106904	1	
1979	239000		115030	0			211554	-	
1980	233200		160234	-			557276	-	
1981	237600		95307	-			416147	-	
1982	270900		109628	-			670804	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: PhilippinesCommodity: Cocoa powder

No. 8

ISIC Code	311907								Note:
NSIC Code									
SITC Code	0722								
NSIC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	805000		-	340			-	53	
1971	790000		-	35			-	10	
1972	1570000		-	104			-	6	
1973	3648000		-	7			-	3	
1974	2040000		-	7			-	4	
1975	1440000		-	35			-	55	
1976	667000		10	60			15	67	
1977	2170000		126	5			271	13	
1978	1268000		-	-			-	-	
1979	1081000		-	21			-	8	
1980	894000		1002	1			1336	3	
1981	707000		2992	178			2644	270	
1982	-		7634	450			5651	646	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: PhilippinesCommodity: Cocoa butter

No. 9

ISIC Code	311910								Note:
NSIC Code									
SITC Code	07232								
NSIC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	245000		417	-			383	-	
1971	208000		235	-			258	-	
1972	1078000		432	-			548	-	
1973	699000		699	2684			1729	2818	
1974	920000		920	3325			2956	6845	
1975	775000		714	2830			1801	6213	
1976	951000		936	3601			3046	7347	
1977	1409000		1409	-			6580	-	
1978	1251000		1245	0			4939	1	
1979	-		1581	-			8313	-	
1980	-		2359	-			16576	-	
1981	-		6036	-			37116	-	
1982	-		7949	-			44154	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Copra meal and cake

No. 10

ISIC Code									Note:  a/ Pesos
NSIC Code									
SITC Code	221.9								
NSTC Code	0810304 (1970-1976)				0813700 (1977-1983)				
	Quantity				Value				
Source	11	11	4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000PE <sup>EV</sup>		1000\$	1000\$	
1970	215143	212352	243875	-	87105		14068	-	
1971	213909	246288	287942	-	93950		15942	-	
1972	310246	300942	321618	-	118561		17470	-	
1973	289103	283623	263214	-	157658		22785	-	
1974	296163	314116	270685	-	230268		27887	-	
1975	344720	306418	302962	-	230258		33331	-	
1976	499936	486779	497632	-	350837		54523	-	
1977	417427	477485	436112	-	414496		58151	-	
1978	260040	-	531673	-	233189		69059	-	
1979	221072	-	548301	-	216430		85519	-	
1980	235786	-	545194	-	217311		81390	-	
1981	-	-	620360	-	-		80758	-	
1982	-	-	558565	-	-		72116	-	
1983	-	-	550844	-	-		72014	-	
1984	-	-	-	-	-		-	-	

Country: Philippines

Commodity: Coffee, soluble, instant

No. 11

ISIC Code	312101								Note:  a/ Kilograms  b/ Pesos
NSIC Code									
SITC Code	071.3								
NSTC Code	0710300 (1970-1976)				07120-00 (1977-1983)				
	Quantity				Value				
Source	11	11	4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000KG <sup>a</sup>	1000KG <sup>a</sup>	1000KG <sup>a</sup>	1000KG <sup>a</sup>	1000PE <sup>b</sup>		1000\$	1000\$	
1970	-	-	0	-	-		0	-	
1971	-	-	0	-	-		0	-	
1972	-	-	11	-	-		34	-	
1973	-	-	133	-	-		636	-	
1974	-	-	81	-	-		404	-	
1975	6614	6819	12	-	305785		87	-	
1976	7249	6568	39	-	348328		249	-	
1977	7208	6654	68	-	504507		803	-	
1978	6519	-	308	1	533829		3278	1	
1979	7932	-	268	1	664193		2884	10	
1980	7056	-	175	31	695230		2012	340	
1981	-	-	193	-	-		1931	-	
1982	-	-	136	-	-		1354	-	
1983	-	-	208	3	-		1902	193	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Prepared animal feeds

No. 12

ISIC Code	312201								Note:  a/ Pesos
NSIC Code									
SITC Code	08199								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000PEa/		1000\$	1000\$	
1970	307367	334867	35	2017	178608		3	432	
1971	297800	306582	932	1710	198646		125	416	
1972	417521	418530	456	797	268819		42	135	
1973	410145	365706	20640	1147	312921		1020	300	
1974	458441	425255	8215	1470	477287		574	485	
1975	566399	541143	8475	3009	548915		757	932	
1976	590795	590219	11327	6526	700706		957	2328	
1977	589397	570006	485	1416	700287		42	617	
1978	647493	-	1131	1780	869474		771	688	
1979	647490	-	1417	1124	1012395		681	502	
1980	66959	-	3915	1094	1230068		1032	620	
1981	-	-	1577	2002	-		1160	1409	
1982	-	-	3008	3426	-		1040	3359	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Philippines

Commodity: Beer

No. 13

ISIC Code		313304							Note: by Litres Cubic metres
NSIC Code									
SITC Code		1123							
RSTC Code									
Source	Quantity				Value				
	2	4	4	4	4	4	4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	100LHA/		CHH <sup>b</sup> /	CHH <sup>b</sup> /			1000\$	1000\$	
1970	3500000		4472	28			1250	12	
1971	-		4039	23			1139	11	
1972	3850000		4538	7			1228	3	
1973	3600000		3958	4			1229	2	
1974	4800000		3900	14			1514	9	
1975	5000000		3384	2			1301	1	
1976	6000000		3879	46			1506	30	
1977	-		4290	43			1899	31	
1978	-		4401	20			2050	21	
1979	-		4058	33			1866	36	
1980	-		3395	49			1547	46	
1981	-		6999	54			3553	83	
1982	-		6434	87			3610	79	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Cigarettes

No. 14

ISIC Code	314007								Note:  a/ Number units
NSIC Code									
SITC Code	1222								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NON	3/	TM	TM			1000\$	1000\$	
1970	39671000		-	-			17	554	
1971	41988000		-	-			10	408	
1972	45777000		-	-			8	197	
1973	51193000		18	62			38	271	
1974	41454000		13	95			22	423	
1975	47688000		31	81			85	431	
1976	50950000		12	164			37	1038	
1977	51373000		6	117			27	783	
1978	50920000		3	218			14	1773	
1979	55273000		2	205			9	1801	
1980	58810000		3	281			10	2704	
1981	55050000		4	265			33	3050	
1982	70565000		121	291			676	3755	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Coconut oil, crude

No. 15

ISIC Code									Note:
NSIC Code									
SITC Code 422.3									
NSTC Code 412070 (1970-1976)					4243100 (1977-1983)				
Source	Quantity				Value				
	11	11	12	4	11	12	4		
Unit	Production	Shipment	Export	Export	Production	Shipment	Export	Export	
	TM	TM	TM	TM	1000PE <sup>a/</sup>	1000\$	1000\$	1000\$	
1970	385312	303610	338712	339378	520905		97415	97448	
1971	394223	431004	396496	396924	896248		102010	103342	
1972	507450	491267	461160	466278	601891		82820	84307	
1973	525731	459329	427373	430485	814627		151083	152648	
1974	530611	405927	415120	415742	2712530		380021	380732	
1975	642170	549112	605654	614387	1524438		225795	230299	
1976	820680	718175	854020	990559	1783105		294839	298713	
1977	781838	664187	714173	769631	2620210		380140	412238	
1978	455791	-	962006	101700	2002559		585026	620572	
1979	386261	-	743397	803483	2393823		683213	742513	
1980	407138	-	872820	914607	1581627		530835	566848	
1981	-	-	984183	1039900	-		501034	533406	
1982	-	-	866213	921237	-		373750	401026	
1983	-	-	933396	-	-		474833	-	
1984	-	-	-	-	-		-	-	

a/ Pesos



Country: Philippines

Commodity: Cotton yarn, pure and mixed

HS. 16

ISIC Code	321109								Note:
NSIC Code									
SITC Code	6513								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	41900000		-	1			-	2	
1971	40400000		-	-			-	-	
1972	26600000		13	27			5	63	
1973	32200000		9	-			23	-	
1974	29400000		-	1			-	12	
1975	35700000		-	-			-	-	
1976	32600000		-	-			-	-	
1977	30800000		3	56			7	282	
1978	32000000		-	119			-	646	
1979	35900000		-	900			-	2016	
1980	38400000		0	821			1	2024	
1981	36300000		2	186			9	759	
1982	35600000		-	104			-	588	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: PhilippinesCommodity: Man-made fibers, yarns and thread

No. 17

ISIC Code	321119								Note:  a/ Kilograms  b/ Pesos
NSIC Code									
SITC Code	8516-8517								
NSTC Code									
	Quantity				Value				
Source	11	2	4	4	11	4	4		
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	1000KG	TM	TM	TM	1000PE		1000\$	1000\$	
1970	-	4500	138	7902	-		290	12250	
1971	-	6900	664	11848	-		1147	15120	
1972	-	-	97	14094	-		246	18235	
1973	-	12800	1894	17232	-		3088	36541	
1974	-	20800	357	19070	-		977	52408	
1975	-	-	945	25849	-		1089	48522	
1976	-	-	1387	13779	-		3441	28031	
1977	-	-	1369	15398	-		3373	29055	
1978	18161	18200	2604	13702	400772		6074	23137	
1979	22544	22500	1932	9731	456660		5830	20494	
1980	72416	72400	4119	5380	1402990		14176	13990	
1981	-	25500	4150	4314	-		13457	13909	
1982	-	23500	3907	3948	-		11628	12905	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Cotton fabrics

No. 18

ISIC Code	321128								Note:  a/ Metres b/ Square metres c/ Pesos
NSIC Code									
SITC Code	8521								
NSTC Code	852								
	Quantity				Value				
Source	11	2	4	4	11		4	4	
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	1000MM <sup>a</sup>	1000SHM <sup>b</sup>	1000SHM <sup>b</sup>	1000SHM <sup>b</sup>	1000PE <sup>c</sup>		1000\$	1000\$	
1970	212905	233000	-	-	322501		203	23	
1971	200747	219000	25	2	488701		10	1	
1972	205528	225000	105	-	308060		72	28	
1973	243115	266000	11719	-	508543		2003	-	
1974	200949	220000	583	5	634094		279	4	
1975	209143	230000	16	8	774297		8	16	
1976	204032	244000	-	-	937824		-	-	
1977	202517	242000	-	-	952441		-	133	
1978	182763	218000	-	180	1346480		-	148	
1979	178474	213000	-	-	1450616		-	55	
1980	166183	199000	0		1352835		1	188	
1981	-	244000	-	-	-		-	306	
1982	-	187000	-	-	-		-	592	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Cotton yarns

No. 19

ISIC Code	321109								Note:  a/ Pesos
NSIC Code									
SITC Code	651.4								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TN	TN	TN	TN	1000PE <sup>a</sup>		1000\$	1000\$	
1970	41916	16804	6	55	101810		15	112	
1971	40422	20774	12	46	140491		43	124	
1972	26630	15257	1	39	132988		6	85	
1973	32225	24626	28	29	272125		98	145	
1974	29401	19254	48	31	330631		234	197	
1975	35675	19961	39	14	304970		180	89	
1976	32618	23056	45	28	380707		194	163	
1977	30756	17984	52	11	336749		279	71	
1978	31985	-	18	73	645112		176	486	
1979	35903	-	18	29	752768		214	432	
1980	38433	-	48	32	808530		275	230	
1981	-	-	97	8	-		459	65	
1982	-	-	49	9	-		169	71	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Philippines

Commodity: Fabrics (Knitted)

No. 20

ISIC Code	321301								Note:  a/ Pesos
NSIC Code									
SITC Code	653.7								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000PEA/		1000\$	1000\$	
1970	8430	8161	-	-	84319		-	22	
1971	8424	6592	1	-	92100		3	83	
1972	5835	5180	-	-	93104		-	10	
1973	6542	6038	15	-	133370		07	76	
1974	6453	5416	55	-	186011		283	41	
1975	11687	9704	111	-	348316		311	59	
1976	18548	14312	130	-	531050		587	46	
1977	21112	17258	785	-	653102		3341	90	
1978	12761	-	2572	1547	463649		11407	10221	
1979	14506	-	3144	2084	473982		8017	14819	
1980	17765	-	3813	2883	590847		13152	19838	
1981	-	-	1159	2832	-		6243	23327	
1982	-	-	504	2507	-		3027	21291	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Rope and cordage

No. 21

ISIC Code	321501								Note:  a/ Kilograms b/ Pesos
NSIC Code									
SITC Code	65531								
NSTC Code									
	Quantity				Value				
Source	11	2	4	4	11		4	4	
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	1000KG <sup>a</sup>	TN	TN	TN	1000PE <sup>b</sup>		1000\$	1000\$	
1970	-	13877	5667	75	-		2141	111	
1971	-	13967	5045	60	-		2100	44	
1972	-	22664	6958	59	-		3243	51	
1973	-	15073	8335	50	-		4633	94	
1974	-	12912	8235	38	-		9813	125	
1975	-	16616	7850	34	-		7722	115	
1976	-	15754	11692	112	-		10390	358	
1977	-	16123	14089	53	-		12527	166	
1978	16123	15647	13738	67	94714		12482	209	
1979	15647	15032	17601	115	110229		16793	385	
1980	15032	-	16012	56	137654		18518	263	
1981	-	-	18538	93	-		20493	406	
1982	-	-	11456	97	-		13864	404	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: Philippines

Commodity: Veneer sheets

No. 22

ISIC Code	331110								Note: a/ Cubic metres
NSIC Code									
SITC Code	6311								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	CMM <sup>a/</sup>		CMM <sup>a/</sup>	CMM <sup>a/</sup>			1000\$	1000\$	
1970	242000		109184	-			7366	-	
1971	234000		128946	-			7399	-	
1972	212000		235062	-			12905	-	
1973	172000		71478	147			18471	1	
1974	189000		166315	806			18634	7	
1975	272000		74434	-			8115	-	
1976	403000		124527	-			17882	-	
1977	496000		-	-			20121	8	
1978	546000		-	-			22278	1	
1979	634000		-	-			34646	62	
1980	600000		-	-			35964	26	
1981	138000		-	-			31526	23	
1982	98000		-	-			20247	-	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Venners, Plywood boards

No. 23

ISIC Code	331110		331116					
	NSIC Code							
SITC Code	6311		6312					
NSTC Code								
Source	Quantity				Value			
	11	11	4	4	11	4	4	4
Unit	Production 1000SMN <sup>a/</sup>	Shipment 1000SMN <sup>a/</sup>	Export CNM <sup>b/</sup>	Import CNM <sup>b/</sup>	Production 1000PE <sup>c/</sup>	Shipment 1000\$	Export 1000\$	Import 1000\$
1970	173528	121447	109184	-	261992		38051	-
1971	176409	127530	128946	90	270733		26951	1
1972	182737	132351	235062	-	327162		36066	-
1973	168219	148187	155797	180	519407		77479	3
1974	120946	101792	337330	806	405930		46164	7
1975	98128	90738	188530	-	331160		31075	-
1976	143886	123362	316111	0	606481		66311	1
1977	172758	136645	-	-	746035		62196	193
1978	159295	-	-	-	933905		98281	43
1979	157580	-	-	-	1121252		147403	187
1980	251938	-	-	-	2515996		151320	204
1981	-	-	-	-	-		150066	112
1982	-	-	-	-	-		91399	6
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ Square metres

b/ Cubic metres

c/ Pesos



Country: Philippines

Commodity: Steel basic forms and shapes

No. 24

ISIC Code	341019								Note:  a) Pesos
NSIC Code									
SITC Code	672-678								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000PE <sup>a)</sup>		1000\$	1000\$	
1970	366932	-	80853	863833	-		11500	116349	
1971	287049	255585	61060	469866	209203		8153	63443	
1972	181931	125415	3947	680301	117218		1207	87637	
1973	457725	377088	2984	614582	425152		736	120071	
1974	433522	329910	686	865261	580843		352	235699	
1975	459740	452569	1755	588778	845148		760	184762	
1976	746983	669368	18427	720016	1355493		4048	206222	
1977	945241	776968	16887	101181	1786419		3758	258508	
1978	1097000	-	52188	992140	2649112		15307	323772	
1979	1272000	-	84261	119812	3521481		27512	461732	
1980	1371000	-	123257	907682	3981439		34080	419171	
1981	-	-	23938	784775	-		6300	346624	
1982	-	-	1312	119259	-		539	461331	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Wood pulp, mechanical

No. 25

ISIC Code	341101								Note:
NSIC Code									
SITC Code	2512								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	21000		-	12170			-	1965	
1971	20000		-	11576			-	1784	
1972	21000		-	5077			-	801	
1973	57000		106	-			20	-	
1974	41000		-	1142			-	391	
1975	33000		-	528			-	198	
1976	45000		-	1056			-	392	
1977	50000		-	1420			-	547	
1978	52000		-	759			-	244	
1979	50000		-	1018			-	338	
1980	44000		-	2022			-	823	
1981	33000		-	636			-	262	
1982	33000		-	403			-	211	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Wood pulp, sulphate and soda

No. 26

ISIC Code	341110								Note:
NSIC Code									
SITC Code	2517								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	18000		-	-			-	-	
1971	31000		-	-			-	-	
1972	32000		-	-			-	-	
1973	117000		-	-			-	-	
1974	105000		-	-			-	-	
1975	66000		-	-			-	-	
1976	104000		-	-			-	-	
1977	131000		-	65795			-	18804	
1978	136000		-	58380			-	17175	
1979	139000		-	61683			-	23328	
1980	108000		-	51343			-	25301	
1981	170000		2061	32372			582	17289	
1982	193000		1599	35389			104	19387	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Newsprint

No. 27

ISIC Code	341119								Note:
NSIC Code									
SITC Code	6411								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	30000		-	45717			-	7268	
1971	45000		-	57202			-	9176	
1972	70000		4569	42399			1	7434	
1973	70000		23461	4607			4448	858	
1974	64000		1105	732			450	278	
1975	68000		115	787			30	375	
1976	74000		1	62			0	11	
1977	78000		-	363			-	136	
1978	80000		-	4999			-	1689	
1979	81000		-	19312			-	8129	
1980	77000		-	20012			-	10245	
1981	77000		-	4895			-	2872	
1982	63000		-	2671			-	1903	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Other printing and writing paper

No. 28

ISIC Code	341122								Note:
NSIC Code									
SITC Code	6412								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	30000		28	11536			175	3182	
1971	45000		13	12730			56	3253	
1972	70000		18	10843			12	3025	
1973	70000		2363	6296			439	2543	
1974	67000		1271	15418			1422	10475	
1975	38000		184	10746			187	5864	
1976	43000		28	9837			31	5241	
1977	40000		19	14398			20	7252	
1978	43000		13	12840			14	7049	
1979	73000		48	8287			50	5843	
1980	70000		162	11972			85	8944	
1981	30000		2	9102			20	6644	
1982	34000		1	19262			3	13641	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Kraft paper and kraft paperboard

No. 29

ISIC Code	341125								Note:
NSIC Code									
SITC Code	6413								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	23000		28	37899			12	6271	
1971	83000		13	34745			12	5688	
1972	132000		18	30450			242	5124	
1973	180000		2363	12609			1	2680	
1974	124000		1271	8213			321	2492	
1975	101000		184	6447			91	2276	
1976	152000		28	654			-	235	
1977	167000		19	4457			2	1243	
1978	198000		484	8480			157	2322	
1979	177000		2209	24970			560	9112	
1980	159000		2	38483			2	16474	
1981	122000		-	31998			-	13283	
1982	111000		-	43324			-	17887	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Glycerine

No. 30

ISIC Code	351125								Note:  a) Pesos
NSIC Code									
SITC Code	512.26								
NSTC Code	51203 (1970-1976)				51218 (1977-1983)				
	Quantity				Value				
Source	11	11	4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000PE <sup>a</sup>		1000\$	1000\$	
1970	4300	-	2330	5	-		522	6	
1971	4300	-	2278	6	-		532	4	
1972	4309	-	1952	3	-		555	4	
1973	3431	-	1457	4	-		480	4	
1974	3782	-	1795	13	-		1302	31	
1975	4662	4599	2677	4	26611		1607	7	
1976	4225	3589	1110	5	20043		625	10	
1977	4837	4429	2080	5	23198		1083	9	
1978	4021	-	2204	3	14752		1436	6	
1979	1715	-	2646	8	8789		1538	19	
1980	2452	-	2832	5	17271		2888	12	
1981	-	-	3206	58	-		3206	152	
1982	-	-	5063	121	-		4067	277	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Sulfuric acid

No. 31

ISIC Code	351147								Note:  a/ Pesos
NSIC Code									
SITC Code	513.33								
NSTC Code	5110105 , 5110106 (1970-1976)				52222 (1977-1983)				
	Quantity				Value				
Source	11	4	4	11	4	4			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000PEM		1000\$	1000\$	
1970	196000		9000	36	-		180	13	
1971	264000		7	132	-		0	33	
1972	273000		6	317	-		1	78	
1973	295000		8251	262	-		236	98	
1974	342000		2100	36	-		139	38	
1975	277000		82	30002	-		18	1247	
1976	280000		22	42237	-		4	1144	
1977	267000		106	52762	-		34	1262	
1978	169000		2	77183	131223		19	2186	
1979	210000		147	87963	93424		32	2791	
1980	-		54	70827	-		12	2451	
1981	-		50	119550	-		9	4221	
1982	-		-	79127	-		-	6147	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	



Country: PhilippinesCommodity: Caustic soda

No. 32

ISIC Code	351159								Note:  a/ Pesos
NSIC Code									
SITC Code	513.62								
NSTC Code	51103 (1970-1976)				52252, 52253 (1977-1983)				
Source	Quantity				Value				
	1		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000PEa		1000\$	1000\$	
1970	32000		-	18065	-		-	2166	
1971	39000		-	17778	-		-	2654	
1972	21000		2	8633	-		1	1265	
1973	21000		-	9198	-		-	1500	
1974	23000		-	16811	-		-	5612	
1975	18000		-	12705	-		-	4264	
1976	17000		-	28751	-		-	5428	
1977	19000		-	23005	-		-	3058	
1978	21000		-	39114	39166		-	5888	
1979	26000		-	27567	52837		-	4972	
1980	24000		-	15137	51003		-	5578	
1981	-		-	15361	-		-	6239	
1982	-		1250	13310	-		294	4375	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Philippines

Commodity: Fertilizer

No. 33

ISIC Code	351201	351204	351207	351210	Note:			
NSIC Code								
SITC Code	581							
NSTC Code								
Source	Quantity				Value			
	11	11	4	4	11	4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import
	TM	TM	TM	TM	1000PE <sup>a/</sup>		1000\$	1000\$
1970	-	-	6430	193521	-		312	10487
1971	-	-	2	276960	-		1	16833
1972	-	-	-	259051	-		-	13524
1973	-	-	9510	255470	-		855	17684
1974	-	-	-	717880	-		-	107656
1975	329000	221000	24	241102	307126		17	51691
1976	316000	286000	49	165918	362581		72	14675
1977	270000	198000	6	424538	269806		2	49061
1978	289000	-	2512	362525	317089		1152	53328
1979	299000	-	-	727046	345756		-	101695
1980	409000	-	1550	872253	685302		424	153680
1981	-	-	105	623472	-		65	120457
1982	-	-	5	745817	-		0	127996
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

a/ Pesos

Country: Philippines

Commodity: Nitrogenous fertilizers

No. 34

ISIC Code	351201								Note:
NSIC Code									
SITC Code	5611								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	25000		-	133497			-	8174	
1971	-		-	207461			-	13036	
1972	-		-	156785			-	8434	
1973	40000		-	156403			-	10941	
1974	40000		-	244464			-	40253	
1975	45000		-	87998			-	22341	
1976	50000		-	65464			-	7443	
1977	38000		-	353683			-	43361	
1978	46000		5	345467			1	50921	
1979	35000		-	503287			-	78977	
1980	34000		550	631219			159	122185	
1981	40000		100	322863			44	78259	
1982	-		-	469990			-	85837	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: Philippines

Commodity: Phosphatic fertilizers

No. 35

ISIC Code	351204	351207						Note:
NSIC Code								
SITC Code	56129							
NSTC Code								
Source	Quantity				Value			
	2		4	4			4	4
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import
	TM		TM	TM			1000\$	1000\$
1970	41000		-	-			-	-
1971	42000		-	-			-	-
1972	42000		-	-			-	-
1973	41000		-	-			-	-
1974	42000		-	-			-	-
1975	31000		-	-			-	-
1976	31000		-	-			-	-
1977	29000		6	2			2	3
1978	36000		2500	6002			1150	1033
1979	39000		-	77952			-	7362
1980	37000		-	88828			-	8722
1981	38000		-	150069			-	14871
1982	-		5	58228			0	6359
1983	-		-	-			-	-
1984	-		-	-			-	-

Country: PhilippinesCommodity: Non-cellulosic staple and tow

No. 36

ISIC Code	351304								Note:
NSIC Code									
SITC Code	26621-26622								
NSTC Code									
Source	Quantity				Value				
	2		4	4			4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
	TM		TM	TM			1000\$	1000\$	
1970	-		-	-			-	-	
1971	-		-	-			-	-	
1972	1000		-	35658			-	28135	
1973	3200		91	60935			157	31597	
1974	6200		619	34517			1419	56264	
1975	7700		65	33239			165	43833	
1976	7800		145	37415			258	46275	
1977	7800		-	27462			-	40445	
1978	8600		103	24400			32	37158	
1979	11600		-	31128			-	49128	
1980	14000		30	19963			47	39572	
1981	14000		3	25605			22	54351	
1982	15000		-	24885			-	53665	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: PhilippinesCommodity: Soaps

No. 37

ISIC Code	352301								Note:  a/ Kilograms b/ Pesos
NSIC Code									
SITC Code	554.1								
NSTC Code	5520203 (1970-1976)				5541300 (1977-1983)				
	Quantity				Value				
Source	11	11	12	12	11	12	12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	KGM a/	KGM a/	KGM a/	KGM a/	1000PE b/		1000\$	1000\$	
1970	58168000	-	183419	3777	-		80031	3231	
1971	57162000	-	583282	160	-		205019	280	
1972	50248000	-	539874	2240	-		283827	5975	
1973	48509000	-	665050	-	-		445413	-	
1974	51672000	-	1007826	84	-		972358	228	
1975	60510000	55853000	832419	15861	290540		941483	25408	
1976	71577000	70254000	921677	21885	395716		1010914	27800	
1977	83559000	77215000	659025	9655	449315		086054	40907	
1978	52027000	-	1121301	10883	328319		1278032	59490	
1979	37647000	-	725727	93454	305368		1121750	207395	
1980	65944000	-	801726	49602	468248		1357751	231698	
1981	-	-	680494	46600	-		1027817	64713	
1982	-	-	159364	672507	-		250145	673246	
1983	-	-	17211	659993	-		49587	623061	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Synthetic detergent

No. 38

ISIC Code	352304								Note:  a/ Pesos
NSIC Code									
SITC Code	554.2								
NSTC Code									
	Quantity				Value				
Source	11	11	4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM	TM	TM	TM	1000PE a/		1000\$	1000\$	
1970	-	-	105	797	-		30	664	
1971	-	-	285	2122	-		113	957	
1972	50816	-	212	1311	-		115	993	
1973	64833	-	24	3441	-		7	3342	
1974	68802	-	7	4481	-		14	5491	
1975	66025	62613	8	2679	409287		31	3848	
1976	58744	59649	9	3403	369013		8	4708	
1977	66312	66002	217	4381	400421		154	6100	
1978	56331	-	299	4431	373261		229	6586	
1979	127432	-	5954	4899	648106		7120	8205	
1980	158094	-	364	4192	912326		379	7750	
1981	-	-	200	3855	-		267	7425	
1982	-	-	239	4127	-		354	7385	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Inks, printing, duplicating

No. 39

ISIC Code	352904								Note:  a/ Kilograms b/ Pesos
NSIC Code									
SITC Code	533.2								
NSTC Code	533020 (1970-1976)				5332100 (1977-1983)				
	Quantity				Value				
Source	11	2	4	4	11	4	4		
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	1000KGM a/	TN	TN	TN	1000PE b/		1000\$	1000\$	
1970	-	2400	55	170	-		79	217	
1971	-	2400	55	179	-		78	228	
1972	-	-	8	132	-		11	221	
1973	-	3000	9	106	-		9	116	
1974	-	3000	15	80	-		21	193	
1975	-	-	116	160	-		85	206	
1976	-	-	76	86	-		84	88	
1977	-	-	298	39	-		204	147	
1978	2573	2600	27	74	39639		28	179	
1979	2342	-	45	47	40714		15	191	
1980	2975	-	48	74	50560		45	308	
1981	-	-	0	63	-		45	397	
1982	-	-	-	283	-		3	5156	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	



Country: Philippines

Commodity: Motor gasoline

No. 40

ISIC Code		353007A <sup>a</sup>							
NSIC Code									
SITC Code		332.1							
NSTC Code		3130102 (1970-1976)			3341102 (1977-1983)				
Source		Quantity				Value			
		11	2	4	4	11	4	4	
		Production	Production	Export	Import	Production	Shipment	Export	Import
Unit		1000CTN <sup>b</sup>	TH	TH	TH	1000PE <sup>c</sup>		1000\$	1000\$
1970		15521	1826000	2659	18823	500002		89	847
1971		15618	1837000	8267	16008	610537		340	987
1972		17752	1875000	11766	22903	671936		306	1153
1973		16447	1939000	31893	20326	698861		1770	1156
1974		14381	1691000	8954	56655	839033		1176	7000
1975		16037	1917000	40852	42072	2282669		6477	6752
1976		15568	1810000	102157	14697	2467221		16150	3077
1977		14429	1790000	71448	216207	2377161		11906	27409
1978		14443	1692000	28460	329912	3030700		4449	44489
1979		11791	1717000	12256	259302	3755286		2147	63407
1980		-	1381000	84330	37855	5375613		25914	19080
1981		-	1271000	92391	4699	-		28723	4268
1982		-	1231000	33678	5142	-		10500	2860
1983		-	-	-	-	-		-	-
1984		-	-	-	-	-		-	-

Note:

- a/ Part of SITC Code  
3321
- b/ Barrels
- c/ Pesos

Country: PhilippinesCommodity: Kerosene

No. 41

ISIC Code		353013A <sup>a</sup>							Note: a/ Part of SITC Code 3322 b/ Barrels c/ pesos
NSIC Code									
SITC Code		332.2							
NSTC Code		313020 (1970-1976)			3342100 (1977-1983)				
		Quantity				Value			
Source	11	2	4	4	11		4	4	
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	1000CTM <sup>b</sup>	TM	TM	TM	1000PEG <sup>c</sup>		1000\$	1000\$	
1970	3365	433000	15739	5095	85674		320	227	
1971	3309	432000	37330	15721	155156		1347	275	
1972	3839	454000	5260	2583	115548		268	101	
1973	3580	432000	58898	-	140863		2995	-	
1974	2859	363000	30761	1	334333		3933	0	
1975	3288	420000	47889	6	411193		7054	5	
1976	3037	385000	8915	-	428794		1175	-	
1977	3146	401000	7743	-	450581		1197	-	
1978	3594	453000	8499	4120	558378		1100	633	
1979	4198	522000	1121	7319	839929		225	1268	
1980	3629	466000	-	5017	1293414		-	1714	
1981	-	578000	-	0	-		-	5	
1982	-	528000	630	13	-		231	21	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Fuel oils, distillate

No. 42

ISIC Code 353019Aa/								Note:
NSIC Code								
SITC Code 332.3								
NSTC Code								
Source	Quantity				Value			
	11	2	4	4	11	4	4	
Unit	Production 1000CTN	Production TM	Export TM	Import TM	Production 1000PEC	Shipment	Export 1000\$	Import 1000\$
1970	13925	1926000	354250	3964	281433		7207	108
1971	13967	2067000	453319	1	394043		12195	225
1972	15141	1851000	210303	8593	413173		5222	261
1973	13855	1723000	255424	-	470341		7095	-
1974	11974	1654000	46937	503343	1325235		4742	35484
1975	13499	1867000	70331	267288	1649453		8121	19294
1976	14430	1957000	60013	801510	1995549		7537	58864
1977	14920	2078000	25252	110254	2080181		3017	86743
1978	15606	2070000	21700	586022	2573349		2805	48832
1979	16468	2287000	24655	152479	3293594		5684	184011
1980	17220	2380000	960	177902	6108675		304	339339
1981	-	2427000	-	139641	-		-	324539
1982	-	2325000	5639	112647	-		1861	248054
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

a/ Part of SITC Code  
3323

b/ Barrels

c/ Pesos

Country: PhilippinesCommodity: Residual fuel oil

No. 43

ISIC Code	353022A								Note:
NSIC Code									
SITC Code	332.4								
NSTC Code									
	Quantity				Value				
Source	11	2	4	4	11		4	4	
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	1000CTN/a	TM	TM	TM	1000PEB/		1000\$	1000\$	
1970	-	3437000	326729	800	-		4282	90	
1971	-	3705000	136855	20299	-		2500	320	
1972	-	3630000	124072	3019	-		2472	293	
1973	-	3715000	51637	-	-		1699	-	
1974	-	3133000	34191	-	-		3586	-	
1975	25838	3597000	81184	-	2631444		6117	-	
1976	28281	3798000	19852	-	2894097		2336	-	
1977	29247	4115000	-	-	3229498		-	-	
1978	32160	4456000	-	-	3709566		-	-	
1979	31282	4422000	14017	-	4430384		1254	-	
1980	28138	4128000	3958	93	6841302		8750	68	
1981	-	4140000	-	-	-		-	-	
1982	-	3850000	1	1112	-		0	96	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

a/ Barrels

b/ Pesos

Country: PhilippinesCommodity: Lubricating oils

No. 44

ISIC Code	353025A								Note:
NSIC Code									
SITC Code	3325								
NSTC Code									
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	33000		519	145399			142	14223	
1971	32000		884	124720			244	12398	
1972	42000		570	106498			239	11323	
1973	21000		6873	135865			615	15827	
1974	25000		8665	126590			2724	24968	
1975	100000		26999	67905			8825	15333	
1976	89000		21733	42249			6462	11922	
1977	90000		8599	25057			2790	8116	
1978	95000		2238	23010			1152	9191	
1979	105000		3331	11197			1433	7835	
1980	110000		1746	16136			1728	13063	
1981	120000		4246	19276			2918	14252	
1982	118000		2277	14907			2614	13252	
1983	-		-	-			-	-	
1984	-		-	-			-	-	

Country: PhilippinesCommodity: Liquefied petroleum gas

No. 45

ISIC Code		353037A <sup>a</sup>							Note: a/ Part of SITC Code 3411 b/ Barrels c/ Pesos
NSIC Code									
SITC Code		341.1							
NSTC Code		3140103 (1970-1976)			3413902 (1977-1983)				
Source		Quantity				Value			
		11	2	4	4	11	4	4	
Unit		Production 1000CTN <sup>b</sup>	Production TM	Export TM	Import TM	Production 1000PEC <sup>c</sup>	Shipment	Export 1000\$	Import 1000\$
1970		1007	86000	6099	2046	21901		304	176
1971		981	114000	1745	5997	34209		82	515
1972		1669	144000	1307	1	41849		40	1
1973		2040	175000	20116	-	49389		953	-
1974		1914	164000	3391	8618	163199		359	1116
1975		2318	199000	-	13352	272556		-	2151
1976		1976	170000	-	24689	287181		-	4016
1977		1726	166000	8	38976	289959		1	6107
1978		1868	160000	-	61691	259838		-	9800
1979		1859	168000	1125	83703	423423		275	20620
1980		1844	158000	4012	54540	620557		1544	21841
1981		-	150000	30241	97112	-		10159	30466
1982		-	114000	3360	162282	-		1025	48127
1983		-	-	-	-	-		-	-
1984		-	-	-	-	-		-	-

Country: Philippines

Commodity: Rubber tires

No. 46

ISIC Code	355104	355107	355110					
NSIC Code								
SITC Code	629.1							
NSTC Code								
Source	Quantity				Value			
	11	11	4	4	11	4	4	
Unit	Production	Shipment	Export	Import	Production	Shipment	Export	Import
	NOM <sup>a/</sup>	NOM <sup>a/</sup>	NOM <sup>a/</sup>	NOM <sup>a/</sup>	1000PE <sup>b/</sup>		1000\$	1000\$
1970	597000	587000	-	-	91751		42	1917
1971	-	-	-	-	-		32	3282
1972	780000	579000	10403	41313	82700		115	1602
1973	686000	603000	1272	117763	120542		24	4687
1974	844000	841000	3156	333693	183888		110	9050
1975	1274000	1234000	9352	503712	421345		593	9583
1976	1301000	1248000	30847	801808	435421		502	7509
1977	1222000	1251000	43459	982941	458817		807	12559
1978	-	-	22657	123264	-		443	13495
1979	1681000	-	25464	101635	532828		540	17422
1980	1854000	-	14501	210585	641041		302	21148
1981	1637000	-	17038	254189	592511		402	17632
1982	-	-	13005	249787	-		477	29617
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

Note:

a/ Number unitsb/ Pesos

Country: Philippines

Commodity: Cement

No. 47

ISIC Code	369204								Note:
NSIC Code									
SITC Code	661.2								
NSTC Code	66101, 66102 (1970-1976)				6612100 (1977-1983)				
	Quantity				Value				
Source	2		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM			1000\$	1000\$	
1970	2447000		134445	15644			2228	682	
1971	2814000		588640	15552			7701	648	
1972	2904000		365975	12978			4571	558	
1973	4059000		988653	7835			17261	427	
1974	3482000		756697	8768			27024	755	
1975	4351000		662062	14580			26829	850	
1976	4229000		844202	8731			18190	698	
1977	4112000		788866	16851			23516	1132	
1978	4201000		291580	7329			25736	3600	
1979	6857000		767170	21027			12677	2275	
1980	4516000		492734	28773			35747	3724	
1981	4008000		581683	11381			21597	2032	
1982	4393000		-	10814			22917	1656	
1983	-		-	-			-	-	
1984	-		-	-			-	-	



Country: PhilippinesCommodity: Wire nails, steel

No. 48

ISIC Code	381913								Note:
NSIC Code									
SITC Code	694.11								
NSTC Code									
	Quantity				Value				
Source	11	2	4	4	11		4	4	
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	1000KGM <sup>a/</sup>	TM	TM	TM	1000PE <sup>b/</sup>		1000\$	1000\$	
1970	-	30100	1	816	-		1	367	
1971	-	27700	3	960	-		1	330	
1972	-	-	5	501	-		5	268	
1973	-	24000	1	1055	-		1	681	
1974	-	26000	-	881	-		-	793	
1975	-	-	1	1058	-		1	1109	
1976	-	-	-	973	-		-	906	
1977	-	-	-	1125	-		-	1103	
1978	12064	12100	1	950	38057		1	857	
1979	13016	13000	-	1301	38945		-	1212	
1980	8227	8200	-	1298	33676		-	1347	
1981	-	-	1	1277	-		1	1114	
1982	-	-	31	1264	-		4	946	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	

a/ Kilograms

b/ Pesos



Country: PhilippinesCommodity: Household refrigerator

No. 50

ISIC Code 382958								Note:
NSIC Code								
SITC Code 719.42 72501								
NSTC Code 8990808 (1970-1976) 77521 (1977-1983)								
Source	Quantity				Value			
	11	2	12	12	11	Shipment	12	12
Unit	Production NOHa/	Production NOHa/	Export NOHa/	Import NOHa/	Production 1000PE <sup>b</sup>		Export 1000\$	Import 1000\$
1970	-	32000	-	200	-		-	25467
1971	-	31000	-	239	-		-	12878
1972	-	46000	-	54	-		-	3592
1973	-	66000	1	3	-		325	134
1974	-	71000	3	8	-		1080	1184
1975	87000	86000	-	6	188052		-	2185
1976	83000	83000	-	4	187482		-	301
1977	110000	111000	1	14	241669		450	35718
1978	135000	134000	1	5	302653		235	2859
1979	150000	-	-	8	336934		-	5511
1980	222000	-	-	29	582585		-	15572
1981	-	-	-	31	-		-	6310
1982	-	-	50	26	-		9950	2745
1983	-	-	307	34	-		70057	4929
1984	-	-	-	-	-		-	-

a/ Number units

b/ Pesos

Country: PhilippinesCommodity: Television receiving sets

No. 51

ISIC Code	383201								Note:  a) Number units b) Pesos
NSIC Code									
SITC Code	724.1								
NSTC Code	7210401 , 7210402 (1970-1976)				761 (1977-1983)				
	Quantity				Value				
Source	11	11	12	12	11	4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NON <u>a</u>	NON <u>a</u>	NON <u>a</u>	NON <u>a</u>	1000PE <u>b</u>		1000\$	1000\$	
1970	44000	-	-	1097	-		-	2332	
1971	42000	-	-	823	-		-	4358	
1972	55000	-	-	312	-		13	2385	
1973	55000	-	2295	37	-		151	1436	
1974	64000	-	66	38	-		48	1724	
1975	104016	103282	200	364	195063		59	1610	
1976	107445	108159	1600	668	205270		253	2080	
1977	156738	150412	300	20	303227		38	8	
1978	180000	-	-	93	323715		-	40	
1979	193000	-	-	10139	386341		-	859	
1980	206000	-	-	21090	-		-	1809	
1981	219000	-	16158	38755	-		2811	3130	
1982	-	-	4331	37968	-		561	2951	
1983	-	-	2200	46165	-		33	2847	
1984	-	-	-	-	-		-	-	

Country: Philippines

Commodity: Radio receivers

No. 52

ISIC Code	383204							Note:  a/ Number units
NSIC Code								
SITC Code	724.2							
NSTC Code	7210408 , 7210411 (1970-1976)			762 (1977-1983)				
Source	Quantity				Value			
	2		4	4			4	4
	Production	Production	Export	Import	Production	Shipment	Export	Import
Unit	NOM <sup>a/</sup>		NOM <sup>a/</sup>	NOM <sup>a/</sup>			1000\$	1000\$
1970	129000		-	-			-	812
1971	129000		-	-			8	2368
1972	146000		-	-			-	1204
1973	173000		-	-			230	824
1974	202000		-	-			912	1605
1975	151000		-	-			651	1624
1976	124000		-	-			2597	1117
1977	149000		-	-			4889	122
1978	-		-	-			6137	185
1979	-		-	-			9650	211
1980	-		-	-			7708	694
1981	-		-	-			5520	269
1982	-		-	-			5937	768
1983	-		-	-			-	-
1984	-		-	-			-	-

Country: Philippines

Commodity: Storage battery

No. 53

ISIC Code	383913								Note:  a/ Number units  b/ Pesos
NSIC Code									
SITC Code	729.12								
NSTC Code	7211902 - 7211906 (1970-1976)				77812 , 77819 (1977-1983)				
Source	Quantity				Value				
	11	11	12	12	11	12	12	12	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	NOH <sup>a/</sup>	NOH <sup>a/</sup>	NOH <sup>a/</sup>	NOH <sup>a/</sup>	1000PE <sup>b/</sup>		1000\$	1000\$	
1970	256000	-	-	463787	-		-	233390	
1971	243000	-	-	636064	-		-	233278	
1972	282000	-	109	517300	-		112	570148	
1973	286000	-	-	198064	-		-	90306	
1974	350000	-	41770	52633	-		39139	260787	
1975	374000	294000	79607	89748	46503		103274	516710	
1976	403000	377000	4828	55641	60547		47573	502377	
1977	432000	426000	36065	66953	82815		55470	578998	
1978	464000	-	1690	122548	81725		52809	1047710	
1979	566000	-	105720	497226	126711		181389	3316042	
1980	929000	-	11696	418629	245251		379379	1958742	
1981	-	-	51865	478419	-		488690	1887096	
1982	-	-	5486	657565	-		98506	1845193	
1983	-	-	20700	3361571	-		367161	2506522	
1984	-	-	-	-	-		-	-	

Country: PhilippinesCommodity: Motor vehicles

No. 54

ISIC Code	384307	384310	384312	384313	384315	384316	Note:	
NSIC Code								
SITC Code	7321-7325							
NSTC Code	73201		73203 (1970-1976)		781 (1977-1983)			
	Quantity				Value			
Source	11	11	4	4	11	4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	NOH <sup>a/</sup>	NOH <sup>a/</sup>	NOH <sup>a/</sup>	NOH <sup>a/</sup>	1000PE <sup>b/</sup>		1000\$	1000\$
1970	13733	-	-	12402	-		-	20495
1971	19037	19545	-	1419	434896		-	22793
1972	20909	17217	9	44433	396273		20	27395
1973	30488	30565	1244	16155	661434		180	30208
1974	44346	41872	20958	26900	1119748		134	64053
1975	48658	47111	3	46143	1545813		8	102588
1976	50578	51502	4	34824	1730489		140	87280
1977	60645	60519	-	-	2062625		34	123291
1978	68000	-	-	-	2728006		127	151635
1979	69000	-	-	-	2887287		247	100209
1980	88000	-	-	-	4231040		1882	152617
1981	-	-	-	-	-		2363	163568
1982	-	-	-	-	-		1154	127704
1983	-	-	-	-	-		-	-
1984	-	-	-	-	-		-	-

a/ Number units

b/ Pesos

Country: Philippines

Commodity: Motorcycle

No. 55

ISIC Code	384401								Note:
NSIC Code									
SITC Code	732.91								
NSTC Code	7320202 (1970-1976)				7851300 (1977-1983)				
Source	Quantity				Value				<u>a/</u> Number units <u>b/</u> Pesos
	11	2	4	4	11		4	4	
	Production	Production	Export	Import	Production	Shipment	Export	Import	
Unit	NOM <sup>a/</sup>	NOM <sup>a/</sup>	NOM <sup>a/</sup>	NOM <sup>a/</sup>	1000PE <sup>b/</sup>		1000\$	1000\$	
1970	-	7000	-	561	-		-	122	
1971	-	16000	-	-	-		-	31	
1972	-	-	-	206	-		-	71	
1973	-	19000	-	46	-		-	7	
1974	-	28000	-	186	-		-	54	
1975	-	-	-	1494	-		-	132	
1976	-	27000	5	372	-		3	93	
1977	-	21000	-	-	-		8	4271	
1978	55000	55000	-	-	283505		-	6085	
1979	46000	46000	-	-	336908		8	5247	
1980	46000	46000	-	-	241206		-	6085	
1981	-	44000	-	-	-		8	6113	
1982	-	-	-	-	-		8	7391	
1983	-	-	-	-	-		-	-	
1984	-	-	-	-	-		-	-	



PART XII

SINGAPORE

- I. Explanatory Notes on Manufacturing Statistics
- II. General Industrial Statistics
- III. Differences between ISIC and SSIC  
(Singapore Standard Industrial Classification)
- IV. Commodity Balance Sheets

**I. Explanatory Notes on Manufacturing Statistics**

## SINGAPORE

### 1. Census of Industrial Production (Annual)

Reference Period : Calendar Year  
Survey Year : from 1959 to 1983  
Office in Charge : Department of Statistics  
Title of Report : Report on the Census of Industrial  
Production

#### Coverage:

This Census covered all establishments with ten or more workers in the private and public sectors which were engaged in industrial activities in Singapore. Industrial establishments engaging 5 to 9 workers were also included in every five years as part of the World Programme on Basic Industrial Statistics. The first such expansion in coverage was carried out in 1963.

The activities covered in the industrial census included manufacturing, industrial servicing, granite quarrying and generation and distribution of electricity and gas. Other industrial activities related to the public sector were also covered but the data are not published in the report because of the small number of establishments involved. Industrial activities of the armed forces were not within the coverage.

#### Frame:

The census frame was based mainly on the master list used in the previous census, updated and supplemented with records and information from the Registry of Companies and Businesses, the Jurong Town Corporation, Economic Development Board, Telephone Directory and other sources.

#### Items:

Legal organization, Capital structure, Employment, Remuneration, Materials used, Electricity, water and fuel used, Other costs of production and disbursements, Total input, Work given out, Gross output, Value added, Sales, Capital expenditure, Sales of fixed assets and net value of fixed assets, Stocks, Other income receipts, Research and development, Floor area.

Classification:

Singapore Standard Industrial Classification, 1969, 1978.

Method of Collection:

The census is primarily conducted by mail enquiry, using standard questionnaires. Scrutiny and editing of the returns are first carried out manually by the office staff. Clarification of incomplete and inconsistent entries is made by telephone, personal visits or correspondence depending on, among other factors, the degree of complexity of the queries. The Computer Services Department of the Ministry of Finance undertakes the function of transferring data onto diskettes, machine editing and tabulation of the final results.

Number of manufacturing establishments included:

1970	1,747
1971	1,813
1972	1,931
1973	2,079
1974	2,179
1975	2,385
1976	2,505
1977	2,638
1978	2,946
1979	3,122
1980	3,355
1981	3,439
1982	3,586
1983	3,616

Definitions and concepts:

The Definitions and concepts used in the industrial census are generally in accordance with the United Nations' recommendations for basic industrial statistics but with certain modifications to suit local needs and conditions. They are comparable with those used in the earlier annual censuses.

1) Statistical Unit

The statistical unit used in the census is the establishment - formally defined as a manufacturing unit engaged in one industrial activity generally in a single location. Where an enterprise is engaged in more than one industrial activity in the same or in different locations, a separate return is to be submitted for each activity. Where an enterprise is engaged in one industrial activity but operates manufacturing units in two or more different locations

in Singapore, these separate units are treated as one establishment if most records are centrally kept. Such an enterprise submits a consolidated return covering all the units.

## 2) Legal Organization

This refers to the legal status of the enterprise rather than the establishment. Establishments are classified into sole proprietorship, partnership, public limited company, private limited company and others.

## 3) Capital Structure

This relates to the nationality of the paid-up capital and invested capital as at the beginning and end of the year. For limited companies, paid-up capital refers to the par value of the paid-up amount. For sole-proprietorship and partnership establishments, it refers to the capital contributed by proprietors or partners as well as the balance in the current account of the proprietors or partners.

## 4) Employment

Detailed employment covers all persons working in the establishment as at the end of June with a summary on the number of employees for the periods ending March, June, September, and December for estimating the average employment for the year. Persons engaged in the establishments are classified under the following categories:

1. Total Workers - This covers all persons directly or indirectly engaged in the industrial activity of the establishment and comprises employees, working proprietors, and unpaid family workers.
2. Employees - This refers only to paid workers and is further subdivided into workmen and other employees.
3. Workmen - This refers to persons employed directly in the process of production. They include all skilled, semi-skilled or unskilled workmen but exclude other employees, working proprietors and unpaid family workers.
4. Other Employees - This refers to other paid personnel employed indirectly in production. They include working directors, managers, supervisors, engineers, technicians, and clerical staff but exclude working proprietors, partners, and unpaid family workers.

5. Working Proprietors - This refers to proprietors and business partners who are actively engaged in the operation of the establishment.
6. Unpaid Family Workers - This refers to relatives of the proprietors or partners working in the establishment without regular pay.

#### 5) Remuneration

Remuneration refers to the amount expended for the whole year. For employees, total remuneration comprises wages and salaries (which include bonuses), contributions to the Central Provident Fund, pension and other funds, and the value of other benefits provided such as food, lodging, transport and medical care. For working proprietors, it refers to the amount withdrawn for their personal use. For unpaid family workers, it refers only to allowances.

#### 6) Materials Used

Materials Used - Materials used cover raw or basic materials, chemicals and packing materials consumed in production. They refer to the actual consumption during the year. Where information on materials consumed is not directly available, it is derived from total purchases of materials and changes in stocks. For important items, data cover both quantity and value. Valuation is at cost, including delivery charges, commissions and duties.

#### 7) Electricity, Water and Fuel

Data on electricity used cover both quantity and value as recorded in PUB bills. For establishments using self-generated electricity they cover only quantity.

Fuel is classified into fuel oil, kerosene, diesel, gas, and others. Cost of fuel used by vehicles which forms part of transport charges is excluded.

#### 8) Other Costs of Production and Disbursements

Other costs of production incurred by the establishment include rent or annual assessed value (in case of owner-occupied premises), expenditure on maintenance and replacement of parts for plant and machinery, depreciation and miscellaneous expenditure such as stationery, legal fees, etc. For an establishment which is part of a multi-establishment enterprise, an apportionment made from the total value of administrative and other expenses attributable to that establishment is shown under the item "Common Services".

Transport Charges - Data on transport charges distinguish those for inward delivery to the establishment from those for outward supply to customers.

9) Total Input

Total input covered cost of materials, electricity, fuel, water and inward transport.

10) Work Given Out

Work given out refers to payments to other firms or persons either for work undertaken on raw or basic materials supplied or for the servicing work farmed out by the reporting establishment.

11) Gross Output

The gross output of industries refers to the total value of all commodities produced (including by-products) and services rendered during the year. The valuation of commodities produced is at ex-factory price, excluding outward transport charges and excise duties, if any. Where proper records of production are not available, the value of output is computed from the value of sales of goods manufactured and changes in stocks during the year.

12) Value Added

Value added is the additional value generated by the activity of the establishment. It is derived as the difference between the value of gross output and that of total input and work given out.

13) Sales

Data on value of sales are distinguished by destination, viz., Singapore, Malaysia, and other individually important countries. Sales in Singapore are further subdivided into those to wholesalers, retailers, direct consumers and others. Resales of goods not manufactured by the establishment are excluded.

14) Capital Expenditure, Sales of Fixed Assets and Net Value of Fixed Assets

Capital expenditure covers all expenditure on capital assets incurred and sales of fixed assets cover all capital assets sold by the establishment during the year. Capital assets are classified into land, buildings and structures, machinery and equipment, vehicles and office equipment.

15) Stocks

Data on stocks cover the quantity and value of individual items of materials and finished goods as at the beginning and end of the year. Work-in-progress is separately valued at cost.

16) Other Income Receipts

Other incomes include rental income from machinery, equipment, premises and building, interest, dividends, gain from sale of fixed assets, bad debts recovered, insurance claim, and other non-operation income.

17) Research and Development

Research and development expenditure refer to the costs incurred in the intensive study in the field of science or technology with the objective of using the results for production or improvements of materials, devices, products or processes.

18) Floor Area

This covers floor area of premises used for production, storage or as office. Floor area used for residential purpose is excluded.



## II. General Industrial Statistics

### 1. Explanatory Notes

### 2. Statistical Tables

2.1 Number of Establishments

2.2 Employment (Average Number of Persons Engaged)

2.3 Employment (Average Number of Employees)

2.4 Gross Output

2.5 Wages and Salaries

2.6 Value Added

2.7 Gross Fixed Capital Formation

2.8 Index Number of Industrial Production (1975=100)

## 1. Explanatory Notes

### I. Classification:

The data are taken from the ISIC, 3 digit code (International Standard Industrial Classification of All Economic Activities). The NC data (national source) based on the SSIC (Singapore Standard Industrial Classification) are converted into ISIC based data. Deviations from these standards, when known, are mentioned in the footnotes to each table.

### II. Source of Data:

The statistical data presented in the following tables are derived from three data sources, UN, UNIDO and NC. Data sources are abbreviated as follows.

UN ----- UN, "Yearbook of Industrial Statistics,  
Vol. I. General Industrial Statistics"

UNIDO -- UNIDO, General Industrial Data Base.

NC 01 -- Department of Statistics, "Census of Industrial Production (annual)"

### III. Reference Period:

The period is the calendar year.

### IV. Concepts and Definitions:

For description of concepts and definitions, please refer to the Explanatory Notes on Manufacturing Statistics.

COUNTRY: SINGAPORE

2.1 Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NC 01	222	225	229	223	225	237	234	232	254	268	278	274	283	
		222	225	229	223	225	237	234	232	254	268	278	274	283	289
313	Beverages	22	20	20	19	17	15	14	14	14	14	16	17	16	
		22	20	20	19	17	15	14	14	14	14	16	17	16	16
314	Tobacco	10	9	8	8	8	9	9	9	8	8	8	6	6	
		10	9	8	8	8	9	9	9	8	8	8	6	6	6
321	Textiles	49	53	60	68	68	72	72	69	79	93	99	94	95	
		49	53	60	68	68	72	72	69	79	93	99	94	95	87
322	Wearing apparel	162	174	188	205	222	252	258	300	345	365	374	374	406	
		162	174	188	205	222	252	257	300	345	365	374	374	406	391
323	Leather and products	21	22	24	25	26	29	30	34	44	42	42	40	43	
		21	22	24	25	26	29	30	34	44	42	42	40	43	37
324	Footwear	41	43	46	42	35	34	38	38	48	55	55	57	53	
		41	43	46	42	35	34	38	38	48	55	55	57	53	51
331	Wood products	165	162	164	172	155	148	132	127	134	133	131	132	119	
		165	162	164	173	156	147	133	127	134	133	131	132	119	110

COUNTRY: SINGAPORE

Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	40	46	48	47	52	59	64	70	94	107	117	117	125	
		40	46	48	46	51	58	63	70	94	107	117	117	125	127
341	Paper and products	60	59	67	68	70	74	79	80	86	94	93	95	92	
		60	58	67	68	70	74	79	80	86	94	93	95	92	88
342	Printing, publishing	165	166	178	184	191	207	222	236	261	270	289	295	319	
		165	166	178	184	191	207	222	230	261	270	289	295	319	321
351	Industrial chemicals	13	16	18	20	18	24	25	27	29	34	45	44	48	
		13	18	20	22	20	27	29	27	29	34	45	44	48	50
352	Other chemical products	74	73	77	80	79	83	86	86	88	85	89	86	84	
		74	73	77	80	79	83	86	86	88	85	89	86	84	85
353	Petroleum refineries <u>a/</u>	9	9	9	10	11	11	11	12	11	10	10	11	11	
		<u>a/</u>	9	9	9	10	11	11	12	11	10	10	11	11	11
354	Petroleum, coal products	<u>a/</u>													
		<u>a/</u>													
355	Rubber products	62	59	58	57	57	55	52	48	45	47	46	47	45	
		62	59	58	57	57	55	52	48	45	47	46	47	45	46

a/ 354 is included in 353.

COUNTRY: SINGAPORE

## Number of Establishments

Unit: No.

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	57	70	86	101	109	129	139	160	175	184	195	209	214	
		57	68	84	98	107	126	137	160	175	184	195	209	214	215
361	Pottery, china etc. <u>a/</u>	4	4	5	4	4									
		<u>a/</u>	4	4	5	4	4								
362	Glass and products <u>a/</u>	5	5	7	8	7	10	11	12	11	12	13	13	11	
		<u>a/</u>	4	4	5	4	4	10	12	12	11	12	13	13	11
369	Non-metal products n.e.c.	45	51	51	52	55	61	68	65	65	65	76	76	77	
		45	50	50	51	54	60	64	65	65	66	76	76	77	90
371	Iron and steel	14	14	13	15	15	15	14	15	15	16	17	17	16	
		14	14	13	16	16	16	15	15	15	16	17	17	16	15
372	Non-ferrous metals	4	5	4	6	6	6	5	7	8	10	12	11	16	
		4	5	4	6	6	6	5	7	8	10	12	11	16	18
381	Metal products	158	160	172	199	206	230	237	261	305	310	338	371	413	
		158	160	174	200	210	237	244	261	305	310	338	371	413	426
382	Machinery n.e.c.	102	102	107	144	167	212	245	226	259	274	295	319	314	
		102	107	112	145	164	204	236	226	259	274	295	319	314	341

a/ from 1975, 361 is included in 362.



COUNTRY: SINGAPORE

2.2

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NC 01	9.06	9.70	9.90	9.42	9.28	8.73	8.57	9.20	9.64	10.18	10.05	10.08	10.21	
		9.06	9.71	9.90	9.42	9.28	8.73	8.57	9.20	9.64	10.18	10.05	10.08	10.21	10.31
313	Beverages	2.35	2.35	2.55	2.72	2.67	2.64	2.64	2.51	2.60	2.74	2.65	2.74	2.59	
		2.35	2.35	2.55	2.72	2.67	2.64	2.64	2.51	2.60	2.74	2.65	2.74	2.59	2.49
314	Tobacco	1.05	1.01	1.10	1.19	1.14	1.30	1.18	1.23	1.28	1.24	1.28	0.98	0.88	
		1.05	1.01	1.11	1.19	1.14	1.30	1.18	1.23	1.28	1.24	1.28	0.98	0.88	0.87
321	Textiles	7.05	8.85	12.41	14.10	12.18	11.38	11.62	10.53	9.79	10.09	9.71	7.91	6.36	
		7.05	8.85	12.41	14.10	12.18	11.38	11.62	10.53	9.79	10.09	9.71	7.91	6.36	4.62
322	Wearing apparel	9.99	13.39	18.12	20.91	18.56	17.97	20.69	23.26	28.98	29.27	27.19	27.87	28.61	
		9.99	13.39	18.12	20.91	18.56	17.97	20.67	23.26	28.98	29.24	27.19	27.87	28.61	27.23
323	Leather and products	0.71	0.75	0.76	0.71	0.70	0.83	0.97	1.22	1.35	1.28	1.24	1.19	1.15	
		0.71	0.75	0.76	0.71	0.70	0.86	0.97	1.22	1.35	1.28	1.24	1.19	1.15	0.97
324	Footwear	2.00	2.19	2.39	1.96	1.86	1.90	1.74	1.47	1.55	1.63	1.52	1.43	1.41	
		2.00	2.19	2.39	1.96	1.86	1.90	1.74	1.47	1.55	1.63	1.52	1.43	1.41	1.25
331	Wood products	9.20	10.79	12.25	13.11	11.97	9.42	8.77	8.86	10.06	11.42	10.38	8.29	7.19	
		9.20	10.79	12.25	13.13	11.98	9.44	8.78	8.86	10.06	11.42	10.38	8.29	7.19	5.95

COUNTRY: SINGAPORE

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	1.80	2.07	2.09	2.36	2.64	2.64	2.95	3.43	4.70	5.68	6.15	6.56	6.71	
		1.80	2.07	2.09	2.35	2.63	2.63	2.93	3.43	4.70	5.68	6.15	6.56	6.71	6.86
341	Paper and products	2.56	2.70	3.06	3.41	3.33	3.37	3.62	3.60	3.80	4.04	4.29	4.50	4.45	
		2.56	2.70	3.06	3.41	3.33	3.37	3.62	3.60	3.80	4.04	4.29	4.50	4.45	3.79
342	Printing, publishing	7.02	7.33	7.59	7.73	8.28	8.51	9.08	9.85	11.11	11.51	12.10	12.49	13.45	
		7.02	7.33	7.59	7.73	8.28	8.51	9.08	9.85	11.11	11.51	12.10	12.49	13.45	13.81
351	Industrial chemicals	0.81	1.03	1.21	1.30	1.31	1.45	1.41	1.52	1.69	1.91	2.14	2.06	2.27	
		0.81	1.09	1.22	1.40	1.41	1.56	1.55	1.52	1.69	1.91	2.14	2.06	2.27	2.28
352	Other chemical products	3.06	3.03	2.99	3.47	3.41	3.57	3.48	3.76	3.80	3.82	4.30	4.29	4.51	
		3.06	3.03	2.99	3.47	3.41	3.57	3.48	3.76	3.80	3.82	4.30	4.29	4.51	4.57
353	Petroleum refineries <u>a/</u>	2.20	2.53	2.66	3.06	3.10	3.33	3.17	3.09	3.08	3.21	3.34	3.51	3.79	
		<u>a/</u> 2.20	2.53	2.70	3.06	3.10	3.33	3.17	3.09	3.08	3.21	3.34	3.51	3.79	3.76
354	Petroleum, coal products <u>a/</u>														
		<u>a/</u>													
355	Rubber products	6.49	6.44	5.64	5.10	4.88	4.40	4.28	4.04	3.79	4.02	4.06	3.34	2.75	
		6.49	6.44	5.64	5.10	4.88	4.40	4.28	4.04	3.79	4.02	4.06	3.34	2.75	2.44

a/ 354 is included in 353.



COUNTRY: SINGAPORE

## Employment (Average Number of Persons Engaged)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	2.19	2.99	3.95	4.77	4.68	4.97	5.48	6.37	7.77	8.37	9.23	9.12	8.88	
		2.19	2.91	3.84	4.65	4.55	4.85	5.35	6.37	7.77	8.37	9.23	9.12	8.88	8.56
361	Pottery, china etc. <u>a/</u>	0.92	0.12	0.16	0.16	0.17									
		<u>a/</u>	0.92	0.12	0.16	0.16	0.17								
362	Glass and products <u>a/</u>	0.87	0.86	0.86	0.84	0.85	0.68	0.72	0.82	0.82	0.89	0.96	1.13	1.05	
		<u>a/</u>	0.87	0.86	0.86	0.84	0.85	0.68	0.79	0.82	0.82	0.89	0.96	1.13	1.05
369	Non-metal products n.e.c.	3.04	3.20	3.34	3.65	3.92	4.28	4.37	3.96	3.74	3.52	3.71	3.93	4.61	
		3.04	3.19	3.33	3.63	3.90	4.27	4.34	3.96	3.74	3.52	3.71	3.93	4.61	6.56
371	Iron and steel	1.08	1.25	1.31	1.38	1.53	1.41	1.36	1.46	1.52	1.80	1.88	1.92	1.72	
		1.08	1.25	1.31	1.45	1.69	1.56	1.52	1.47	1.52	1.80	1.88	1.92	1.72	1.65
372	Non-ferrous metals	0.41	0.55	0.39	0.53	0.56	0.45	0.14	0.52	0.62	0.49	0.46	0.45	0.66	
		0.41	0.55	0.39	0.53	0.56	0.45	0.14	0.52	0.62	0.49	0.46	0.45	0.66	0.64
381	Metal products	8.69	9.11	9.70	10.23	10.75	10.98	11.53	12.67	14.82	16.06	17.67	19.48	21.55	
		8.69	9.13	9.74	10.36	11.02	11.21	11.88	12.67	14.82	16.06	17.67	19.48	21.55	21.16
382	Machinery n.e.c.	3.81	4.46	5.35	7.80	11.78	13.68	15.45	14.83	17.34	18.91	20.27	23.96	23.80	
		3.81	6.62	8.56	10.93	13.58	16.75	15.93	14.83	17.34	18.91	20.27	23.96	23.80	22.43

a/ from 1975, 361 is included in 362.



COUNTRY: SINGAPORE

2.3

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NC 01	8.69 9	9.33 9	9.51 10	9.05 9	8.97 9	8.38 8	8.23 8	8.90 9	9.31 9	9.86 10	9.72 10	9.76 10	9.90	
313	Beverages	2.33 2	2.35 2	2.55 3	2.71 3	2.66 3	2.64 3	2.64 3	2.50 2	2.59 3	2.74 3	2.65 3	2.74 3	2.59	
314	Tobacco	1.04 1	1.01 1	1.10 1	1.18 1	1.13 1	1.29 1	1.17 1	1.22 1	1.26 1	1.24 1	1.27 1	0.97 1	0.88	
321	Textiles	7.03 7	8.83 9	12.39 12	14.07 14	12.15 12	11.35 11	11.59 12	10.50 10	9.76 10	10.05 10	9.67 10	7.87 8	6.31	
322	Wearing apparel	9.71 10	13.11 13	17.82 18	20.62 21	18.24 18	17.61 18	20.37 20	22.97 23	28.64 29	28.94 29	26.85 27	27.55 28	28.26	
323	Leather and products	0.67 1	0.70 1	0.70 1	0.65 1	0.65 1	0.81 1	0.93 1	1.18 1	1.30 1	1.23 1	1.20 1	1.14 1	1.10	
324	Footwear	1.95 2	2.13 2	2.32 2	1.92 2	1.81 2	1.86 2	1.70 2	1.42 1	1.48 2	1.57 2	1.46 1	1.36 1	1.34	
331	Wood products	8.97 9	10.58 11	12.05 12	12.91 13	11.81 12	9.28 9	8.64 9	8.75 9	9.89 10	11.31 11	10.26 10	8.19 8	7.10	

COUNTRY: SINGAPORE

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	1.74 2	2.01 2	2.03 2	2.31 2	2.59 3	2.57 3	2.88 3	3.36 3	4.60 5	5.59 6	6.05 6	6.47 6	6.58	
341	Paper and products	2.47 2	2.62 3	2.96 3	3.32 3	3.25 3	3.29 3	3.55 4	3.54 4	3.74 4	3.90 4	4.25 4	4.45 4	4.41	
342	Printing, publishing	6.78 7	7.09 7	7.34 7	7.46 7	8.07 8	8.26 8	8.81 9	9.61 10	10.85 11	11.26 11	11.86 12	12.25 12	13.21	
351	Industrial chemicals	0.81 1	1.03 1	1.21 1	1.30 1	1.31 1	1.44 1	1.40 1	1.52 1	1.69 1	1.91 2	2.14 2	2.06 2	2.27	
352	Other chemical products	3.02 3	2.99 3	2.95 3	3.44 3	3.36 3	3.53 4	3.45 3	3.73 4	3.74 4	3.78 4	4.27 4	4.27 4	4.49	
353	Petroleum refineries <u>a/</u>	2.20 2	2.53 3	2.66 3	3.06 3	3.10 3	3.33 3	3.17 3	3.09 3	3.08 3	3.21 3	3.34 3	3.51 4	3.79	
354	Petroleum, coal products <u>a/</u>														
355	Rubber products	6.45 6	6.41 6	5.61 6	5.07 5	4.85 5	4.38 4	4.26 4	4.03 4	3.78 4	4.00 4	4.05 4	3.33 3	2.74	

a/ 354 is included in 353.

COUNTRY: SINGAPORE

## Employment (Average Number of Employees)

Unit: Thousands

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
358	Plastic products n.e.c.	2.13 2	2.94 3	3.89 4	4.68 5	4.58 5	4.87 5	5.39 5	6.28 6	7.09 8	8.30 9	9.15 9	9.05 9	8.83	
361	Pottery, china etc. <u>a/</u>	0.92 1	0.11 0	0.15 0	0.15 0	0.17 0									
362	Glass and products <u>a/</u>	0.86 1	0.85 1	0.86 1	0.82 1	0.84 1	0.67 1	0.71 1	0.81 1	0.81 1	0.88 1	0.95 1	1.13 1	1.05 1	
369	Non-metal products n.e.c.	3.02 3	3.18 3	3.32 3	4.63 4	3.89 4	4.26 4	4.34 4	3.94 4	3.71 4	3.50 3	3.68 4	3.90 4	4.59	
371	Iron and steel	1.06 1	1.23 1	1.29 1	1.35 1	1.51 2	1.39 1	1.34 1	1.44 1	1.51 1	1.79 2	1.86 2	1.91 2	1.71	
372	Non-ferrous metals	0.41 0	0.55 1	0.39 0	0.52 1	0.56 1	0.44 0	0.14 0	0.51 1	0.62 1	0.48 0	0.46 0	0.45 0	0.65	
381	Metal products	8.55 9	8.98 9	9.53 10	10.04 10	10.58 11	10.79 11	11.35 11	12.50 12	14.41 14	15.85 15	17.47 17	19.27 18	21.32	
382	Machinery n.e.c.	3.70 4	4.36 4	5.25 5	7.67 8	11.65 12	13.52 14	15.27 15	14.68 15	17.15 18	18.74 22	20.10 20	23.82 24	23.63	

a/ from 1975, 361 is included in 362.



COUNTRY: SINGAPORE

## 2.4 Gross Output (in Factor Values)

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products	UM	551	578	552	715	930	844	938	1219	1230	1453	1662	1693	1806
		UNIDO	551	578	552	715	930	844	938	1219	1230	1453	1662	1693	
		NC 01	551.4	577.6	552.0	714.2	930.2	843.5	938.0	1219.0	1229.8	1452.7	1661.5	1692.5	1805.6
313	Beverages		66	70	73	81	98	131	151	168	205	220	249	327	317
			66	70	73	81	98	131	151	168	205	220	249	327	
			66.4	70.1	73.3	80.5	97.8	130.5	150.7	168.3	205.5	219.7	249.1	327.2	317.1
314	Tobacco		98	94	103	130	143	144	154	166	171	166	171	194	219
			98	94	103	130	143	144	154	166	171	166	171		
			97.6	94.0	102.7	129.8	142.7	144.5	153.6	166.4	171.1	166.0	171.3	193.6	219.3
321	Textiles		84	128	193	314	292	260	360	347	353	428	489	422	324
			84	128	193	314	292	260	360	347	353	428	489	422	
			84.4	128.5	192.9	313.8	292.4	259.7	359.8	346.6	352.6	425.8	488.8	422.1	323.7
322	Wearing apparel		86	123	207	289	269	286	407	480	633	737	848	925	929
			86	123	207	289	269	286	406	480	633	736	848		
			86.0	122.6	206.7	289.3	269.1	286.1	406.1	479.5	633.1	737.0	848.4	924.7	929.0
323	Leather and products		15	14	17	28	26	22	31	44	50	51	47	50	47
			15	14	17	28	26	22	31	44	50	51	47		
			14.7	13.7	16.7	27.9	25.6	22.0	31.1	44.2	50.4	51.4	47.0	49.6	47.3
324	Footwear		18	24	26	24	27	30	34	31	35	52	54	55	45
			18	24	26	24	27	30	34	31	36	52	54	55	
			17.9	23.7	25.9	25.7	27.2	30.3	33.9	30.8	34.7	51.5	53.6	54.9	45.3
331	Wood products		186	199	261	466	357	311	422	437	550	796	750	641	532
			186	199	261	466	357	311	422	435	547	792	750	641	
			186.5	199.0	261.0	466.7	358.1	311.5	422.0	437.4	550.2	796.1	749.8	641.0	532.1

COUNTRY: SINGAPORE

Gross Output (in Factor Values)

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures	24	30	29	38	45	49	61	79	117	161	228	277	260		
		24	30	29	38	45	49	61	78	115	158	228	277			
		24.0	29.6	29.0	37.9	44.3	48.7	61.3	79.1	116.9	160.9	227.5	277.1	259.8	282.5	
341	Paper and products	38	44	61	85	104	97	115	127	159	209	273	302	326		
		38	44	61	85	104	97	115	127	159	206	273	302			
		37.8	44.0	60.6	84.9	103.6	96.8	114.8	127.3	158.7	209.2	272.7	302.2	326.1	331.3	
342	Printing, publishing	98	117	143	168	221	225	290	336	376	431	550	674	727		
		98	117	143	168	221	225	290	335	375	430	550	674			
		98.3	117.3	142.3	168.3	221.2	225.2	290.1	335.6	375.5	431.2	550.4	674.3	726.6	833.4	
351	Industrial chemicals	35	46	65	93	156	143	196	227	183	255	346	364	384		
		35	46	65	93	156	143	196	210	166	226	346	364			
		34.9	50.8	72.9	108.8	172.1	154.5	210.1	227.0	183.3	255.2	346.1	363.7	383.8	382.9	
352	Other chemical product	78	88	100	184	237	275	312	345	411	430	583	663	704		
		78	88	100	184	237	275	312	345	412	436	583	663			
		77.7	88.1	100.4	184.3	236.7	274.8	311.9	344.9	411.1	429.9	583.3	663.4	704.4	885.3	
353	Petroleum refineries	a/	1222	1553	1680	1968	5706	4753	6119	7022	7498	9308	11521	14454	14641	
		a/	1222	1554	1680	1968	5706	4753	6119	7022	7498	9471	11521	14454		
		a/	1221.8	1553.5	1680.2	1967.6	5705.5	4753.3	6118.8	7022.4	7498.3	9308.1	11520.5	14453.8	14641.2	13163.6
354	Petroleum, coal products	a/														
		a/														
		a/														
355	Rubber products	776	628	442	814	945	630	888	827	887	1283	1168	877	595		
		776	628	442	814	945	630	888	827	887	1283	1168	877			
		776.3	628.1	442.2	814.2	945.1	629.7	888.2	827.1	887.4	1282.9	1168.1	877.1	594.5	530.5	

a/ 354 is included in 353.



COUNTRY: SINGAPORE

## Gross Output (in Factor Values)

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
358	Plastic products n.e.c.	35	50	68	124	146	132	173	204	278	381	458	519	505		
		35	50	68	124	146	132	173	220	294	408	498	519			
		35.2	44.3	60.5	108.2	130.0	120.7	160.7	204.2	277.8	380.7	498.1	519.0	504.9	547.5	
361	Pottery, china etc.	a/	3	1	2	2	2									
		b/	3	1	2	2	2	2	2	3	3	4	5	6		
362	Glass and products	a/	14	13	14	21	28	28	36	41	50	61	68	90	81	
		b/	14	13	14	21	28	26	35	38	47	57	63	84		
		17.9	14.2	15.9	22.6	30.0	28.3	37.0	41.0	49.7	60.9	68.0	90.3	81.1	94.3	
369	Non-metal products n.e.c.	72	99	117	173	262	321	333	349	355	445	580	784	951		
		72	99	117	173	262	321	333	354	381	452	580	784			
		72.0	98.7	116.6	172.2	260.7	319.9	331.1	348.5	354.7	444.8	579.7	784.2	951.1	1238.4	
371	Iron and steel	51	57	73	105	173	145	149	145	193	272	338	343	357		
		51	57	73	105	173	145	149	143	188	267	338	343			
		50.5	57.0	73.3	105.3	176.7	148.3	152.4	145.0	192.9	272.1	338.1	343.1	356.9	332.9	
372	Non-ferrous metals	25	22	21	33	49	41	34	54	56	135	190	131	156		
		25	22	21	33	49	41	34	54	56	135	190	131			
		25.0	22.0	21.1	33.4	49.4	41.3	33.8	53.7	56.1	135.4	190.4	130.5	156.0	153.6	
381	Metal products	218	223	245	324	430	489	478	598	749	966	1235	1493	1673		
		218	223	245	324	430	489	478	588	735	908	1235	1493			
		218.0	222.7	246.4	340.9	454.0	506.9	507.1	597.9	748.8	965.5	1234.9	1492.7	1673.0	1814.7	
382	Machinery n.e.c.	75	88	128	208	553	651	602	701	844	1183	1663	2484	2322		
		75	88	128	208	553	651	602	706	838	1169	1663	2484			
		74.6	137.8	223.4	338.5	573.0	754.7	676.9	701.0	844.4	1183.5	1662.7	2484.2	2322.1	2050.4	

a/ from 1975, 361 is included in 362.

b/ 361 is included in 362.



COUNTRY: SINGAPORE

2.5

## Wages and Salaries

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NC 01	25.2	30.0	33.4	38.6	45.2	47.9	51.8	58.2	65.8	79.1	87.8	103.4	115.2	
		25.2	30.0	33.4	38.6	45.2	47.9	51.8	58.2	65.8	79.1	87.8	103.4		
		25.2	30.0	33.4	38.6	45.2	47.9	51.8	58.2	65.8	79.1	87.8	103.4	115.2	129.7
313	Beverages	10.0	11.1	12.5	14.6	18.6	22.3	22.9	24.3	26.5	29.9	34.6	40.0	35.3	
		10.0	11.1	12.5	14.6	18.6	22.3	22.9	24.3	26.5	29.9	34.6	40.0		
		10.0	11.1	12.5	14.6	18.6	22.3	22.9	24.3	26.5	29.9	34.6	40.0	35.3	36.5
314	Tobacco	3.9	4.0	5.1	7.2	8.7	8.8	9.5	10.5	11.6	13.2	15.3	15.6	17.3	
		3.9	4.0	5.1	7.2	8.7	8.8	9.5	10.5	11.6	13.2	15.3	15.6		
		3.9	4.0	5.1	7.2	8.7	8.8	9.5	10.5	11.6	13.2	15.3	15.6	17.3	19.2
321	Textiles	13.7	19.7	31.2	44.2	48.0	47.8	58.0	52.7	54.6	63.0	71.7	68.8	60.4	
		13.7	19.7	31.2	44.2	48.0	47.8	58.0	52.7	54.7	63.4	71.7	68.8		
		13.7	19.7	31.2	44.2	48.0	47.8	58.0	52.6	54.6	63.0	71.7	68.8	60.4	49.9
322	Wearing apparel	15.9	22.2	33.8	48.5	50.6	53.8	69.9	87.0	118.0	136.3	150.7	179.3	203.4	
		15.9	22.2	33.8	48.5	50.6	53.8	69.9	87.0	118.0	136.0	150.7	179.3		
		15.8	22.2	33.8	48.5	50.6	53.8	69.8	87.0	118.0	136.3	150.7	179.3	203.4	216.1
323	Leather and products	1.3	1.4	1.6	2.0	2.5	3.1	4.0	5.1	6.1	6.8	7.4	8.0	8.5	
		1.3	1.4	1.6	2.0	2.5	3.1	4.0	5.1	6.1	6.8	7.4	8.0		
		1.3	1.4	1.6	2.0	2.5	3.1	4.0	5.1	6.1	6.8	7.4	8.0	8.5	8.2
324	Footwear	3.6	4.4	5.3	5.2	6.7	7.1	7.9	6.4	6.8	7.9	9.7	10.1	10.7	
		3.6	4.4	5.3	5.2	6.7	7.1	7.9	6.4	6.9	8.1	9.7	10.1		
		3.6	4.4	5.3	5.2	6.7	7.1	7.9	6.4	4.8	7.9	9.7	10.1	10.7	10.3
331	Wood products	28.9	32.6	38.9	51.2	50.9	48.1	48.8	55.8	67.5	81.8	80.1	77.4	69.0	
		28.9	32.6	38.9	51.2	50.9	48.1	48.8	55.5	67.2	81.4	80.1	77.4		
		28.9	32.6	38.9	51.2	51.0	48.1	48.9	55.8	67.5	81.8	80.1	77.4	69.0	64.8

COUNTRY: SINGAPORE

## Wages and Salaries

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures	5.6	6.7	7.6	8.6	11.9	12.8	14.8	16.7	24.4	34.0	44.4	54.8	58.3		
		5.6	6.7	7.6	8.6	11.9	12.8	14.8	16.7	24.4	33.9	44.4	54.8			
		5.5	6.7	7.6	8.6	11.9	12.7	14.8	16.7	24.4	34.0	44.4	54.8	58.3	63.7	
341	Paper and products	4.1	5.1	6.7	9.7	12.1	13.9	16.0	17.6	21.3	27.0	34.7	44.2	51.4		
		4.1	5.1	6.7	9.7	12.1	13.9	16.0	17.6	21.3	26.6	34.7	44.2			
		4.1	5.1	6.7	9.7	12.1	13.9	16.0	17.6	21.3	27.0	34.7	44.2	51.4	51.5	
342	Printing, publishing	25.2	28.8	31.5	36.5	45.9	54.1	61.7	70.1	86.6	97.5	118.6	140.5	171.9		
		25.2	28.8	31.5	36.5	45.9	54.1	61.7	70.1	86.4	97.2	118.6	140.5			
		25.2	28.8	31.5	36.5	45.9	54.1	61.7	70.2	86.6	97.5	118.5	140.5	171.9	248.2	
351	Industrial chemicals	4.4	6.1	8.1	9.4	11.1	12.4	12.9	16.1	17.8	22.3	28.9	33.4	41.1		
		4.4	6.1	8.5	9.4	11.1	12.4	12.9	13.6	16.2	20.0	28.9	33.4			
		4.4	6.4	8.5	10.0	11.8	13.3	14.1	16.1	17.8	22.3	28.9	33.4	41.1	43.2	
352	Other chemical products	9.6	10.7	12.6	18.2	22.0	25.7	30.0	35.1	37.7	43.2	53.4	62.5	76.4		
		9.6	10.7	12.6	18.2	22.0	25.7	30.0	35.1	37.9	43.8	53.4	62.5			
		9.5	10.7	12.6	18.2	22.0	25.7	33.0	35.1	37.7	43.2	53.4	62.4	76.4	90.5	
353	Petroleum refineries	a/	32.9	42.2	44.6	53.9	60.6	66.1	67.2	67.0	73.5	87.1	99.7	114.7	138.6	
		a/	32.9	42.2	44.6	53.9	60.6	66.1	67.2	67.0	73.5	87.1	99.7	114.7		
		a/	32.9	42.2	44.6	53.9	60.6	66.1	67.2	67.0	73.5	87.1	99.7	114.7	138.6	148.0
354	Petroleum, coal products	a/														
		a/														
		a/														
355	Rubber products	18.7	19.5	19.2	23.6	25.4	24.8	25.0	26.1	26.6	33.4	37.0	33.1	32.4		
		18.7	19.5	19.3	23.6	25.3	24.7	26.0	26.1	26.6	33.4	37.0	33.1			
		18.7	19.5	19.2	23.6	25.4	24.8	25.0	26.1	26.6	33.4	37.0	33.1	32.4	33.9	

a/ 354 is included in 353.

COUNTRY: SINGAPORE

## Wages and Salaries

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
356	Plastic products n.e.c	4.2	6.5	10.2	14.7	18.2	21.1	23.9	30.0	39.0	48.5	63.9	71.8	79.9		
		4.2	6.5	9.8	14.7	18.2	21.1	24.8	31.1	40.2	50.4	63.9	71.8			
		4.2	6.3	9.8	14.2	17.6	20.3	23.9	30.0	39.0	48.5	63.9	71.8	79.9	86.5	
361	Pottery, china etc.	a/	1.8	0.3	0.4	0.5	0.6									
		b/	1.8	0.3	0.4	0.5	0.6	0.5	0.6	0.6	0.7	0.8	1.1	1.2		
362	Glass and products	a/	3.9	4.3	5.0	5.7	6.2	6.1	6.5	7.2	8.5	9.9	12.4	13.5	14.4	
		b/	3.9	4.3	5.0	5.7	6.2	5.6	5.9	6.1	7.5	8.7	11.3	12.3		
		b/	5.7	4.6	5.4	6.1	6.8	6.1	6.9	7.2	8.5	9.9	12.4	13.5	14.4	16.3
369	Non-metal products n.e.c.	10.5	13.2	15.0	18.7	23.2	29.6	31.9	29.2	31.2	34.7	42.4	55.5	70.1		
		10.5	13.2	14.8	18.7	23.2	29.6	31.9	30.9	31.7	35.4	42.4	55.5			
		10.6	13.2	14.8	18.6	23.1	29.5	31.6	29.2	31.2	34.7	42.4	55.6	70.1		
371	Iron and steel	4.8	6.2	6.9	8.9	11.7	12.4	13.2	14.8	17.7	22.4	27.4	30.2	32.5		
		4.8	6.2	6.9	8.9	11.7	12.4	13.2	13.9	16.6	22.1	27.4	30.2			
		4.8	6.2	6.9	9.3	12.4	13.4	14.2	14.8	17.7	22.4	27.4	30.2	32.5	36.2	
372	Non-ferrous metals	1.7	2.0	2.1	2.5	3.6	3.7	1.1	4.7	5.6	5.9	7.9	7.4	10.1		
		1.7	2.0	2.1	2.5	3.6	3.7	1.1	4.7	5.6	5.9	7.9	7.4			
		1.7	2.0	2.1	2.5	3.6	3.7	1.1	4.7	5.6	5.9	7.9	7.4	10.1	10.7	
381	Metal products	29.7	34.4	37.6	44.4	59.6	67.1	75.7	86.0	116.9	126.7	157.3	202.0	259.1		
		29.7	34.4	37.8	44.4	59.6	67.1	75.7	83.2	115.1	119.3	157.3	202.0			
		29.7	34.5	37.8	44.8	61.3	68.9	77.8	86.0	116.9	126.7	157.3	202.0	259.1	276.5	
382	Machinery n.e.c.	12.4	14.0	21.8	38.5	70.2	99.3	113.1	129.2	152.6	186.5	228.7	323.8	346.5		
		12.4	14.0	41.2	38.5	70.2	99.3	113.1	124.0	152.5	194.8	228.7	323.8			
		12.4	25.8	41.2	58.3	91.5	127.8	125.8	129.2	152.6	186.5	228.7	323.8	346.5		

a/ from 1975, 361 is included in 362.

b/ 361 is included in 362.



COUNTRY: SINGAPORE

2.6

Value Added (in Factor Values)

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
311/2	Food products UN		92	103	129	147	150	158	199	207	235	262	358	328		
			76	92	103	129	147	150	158	199	207	235	262	358	---	
		76.4	92.1	103.4	128.9	147.2	149.7	157.5	198.8	206.8	235.2	261.6	355.6	328.0	353.9	
313	Beverages		35	33	39	46	57	67	69	81	92	109	140	141		
			35	33	39	46	57	67	69	81	92	109	40			
		34.9	35.1	33.0	38.6	45.7	57.2	66.9	69.2	81.4	91.9	109.0	140.0	140.8	147.9	
314	Tobacco		25	26	31	42	35	35	37	41	43	53	68	91		
			25	26	31	42	35	35	37	41	43	53	68			
		24.8	24.7	25.8	30.8	41.9	34.7	34.7	37.0	41.0	42.8	52.6	68.2	91.0	89.4	
321	Textiles		40	65	122	86	79	117	109	115	137	158	135	106		
			24	40	65	122	86	79	117	109	115	137	158	135		
		23.5	40.3	64.9	121.7	85.9	78.6	117.2	108.8	115.3	137.0	157.6	134.9	105.9	93.6	
322	Wearing apparel		35	59	82	79	92	136	157	207	230	266	308	326		
			24	35	59	82	79	92	136	157	207	230	266	308		
		23.8	34.9	59.5	82.4	78.9	92.2	135.8	156.7	206.5	230.2	266.4	308.3	326.0	333.0	
323	Leather and products		3	4	5	6	5	9	13	13	13	13	14	14		
			3	4	5	6	5	9	13	13	13	13	14			
		2.6	2.8	3.5	5.1	5.8	4.6	9.0	12.7	13.3	13.2	13.4	13.6	14.0	12.7	
324	Footwear		9	10	8	9	12	11	11	13	17	19	19	17		
			6	9	10	8	9	12	11	11	13	17	19	19		
		6.4	8.5	10.3	8.5	9.2	11.6	11.5	10.9	12.6	16.8	19.2	19.0	17.0	18.1	
331	Wood products		66	78	140	97	81	129	141	181	221	181	175	138		
			60	66	78	140	97	81	129	140	180	219	181	175		
		60.5	66.3	78.1	140.3	97.3	80.8	129.1	140.8	180.6	220.9	180.7	175.5	136.4	138.7	

COUNTRY: SINGAPORE

Value Added (in Factor Values)

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures		12	12	15	19	22	27	31	43	59	84	102	102		
		11	12	12	15	19	22	27	31	43	59	84	102			
		10.7	12.4	12.0	15.1	19.1	21.4	26.8	31.2	43.4	59.3	84.3	102.4	102.3	110.8	
341	Paper and products		15	21	32	36	32	40	46	54	73	94	104	123		
		12	15	21	32	36	32	40	46	54	72	94	104			
		12.5	14.8	21.1	31.9	36.4	31.8	39.8	45.8	54.3	73.2	94.5	103.6	122.8	146.2	
342	Printing, publishing		62	83	93	121	125	146	172	191	217	278	342	380		
		51	62	83	93	121	125	146	172	190	216	278	342			
		51.1	62.4	83.4	92.7	120.8	124.9	145.9	172.0	190.8	217.1	277.9	341.8	380.0	459.3	
351	Industrial chemicals		21	31	48	45	43	49	59	65	86	109	119	140		
		16	21	31	48	45	43	49	58	61	77	109	119			
		16.0	22.2	32.4	50.9	46.8	44.9	51.9	59.3	65.3	85.5	109.4	119.3	140.4	142.2	
352	Other chemical product		37	44	89	118	137	155	172	226	225	304	341	361		
		34	37	44	89	118	137	155	172	226	228	304	341			
		33.5	36.9	44.0	88.6	117.5	137.4	154.6	172.5	226.0	224.6	304.2	340.7	360.8	495.9	
353	Petroleum refineries	a/	281	281	362	865	605	699	774	787	916	1470	1707	1618		
		a/	210	281	281	362	865	605	699	774	787	1206	1470	1707		
		a/	210.4	281.0	280.6	362.3	864.6	605.0	698.5	774.2	787.0	916.0	1470.4	1707.2	1617.7	1382.6
354	Petroleum, coal products	a/														
		a/														
		a/														
355	Rubber products		63	46	75	76	55	74	67	67	128	94	75	66		
		56	63	46	75	76	55	74	67	67	128	94	75			
		55.5	62.9	45.7	75.1	76.1	55.2	74.1	67.3	66.7	128.5	93.6	74.9	66.2	73.3	

a/ 354 is included in 353.



COUNTRY: SINGAPORE

Value Added (in Factor Values)

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c		19	28	44	47	43	52	72	97	134	174	185	181	
		12	19	28	44	49	43	52	75	100	142	174	185		
		11.6	17.7	26.5	41.0	44.0	40.7	50.1	72.1	97.0	134.2	173.8	184.6	181.1	195.4
361	Pottery, china etc. <u>a/</u>		1	1	1	1									
		2	1	1	1	1	1	1	1	2	2	2	3		
362	Glass and products <u>a/</u>		7	7	10	12	12	13	18	25	27	26	37	28	
		8	7	7	10	13	11	13	17	23	25	23	34		
	<u>b/</u>	9.9	7.7	8.0	11.0	13.6	11.8	14.3	17.6	25.1	27.3	24.6	36.8	27.5	33.9
369	Non-metal products n.e.c.		36	42	72	93	111	120	126	115	137	174	240	286	
		23	36	42	72	93	111	120	128	117	141	174	240		
		23.4	36.3	41.3	71.5	92.5	110.8	119.1	126.1	114.5	137.3	174.4	239.6	285.5	383.4
371	Iron and steel		16	27	52	99	50	53	66	92	112	132	138	136	
		17	16	27	52	99	50	53	66	90	108	132	138		
		17.1	15.8	27.0	52.4	100.2	51.5	54.3	66.3	92.0	111.9	131.9	138.4	136.1	123.3
372	Non-ferrous metals		6	5	11	13	11	7	13	14	19	22	25	25	
		5	6	5	11	13	11	7	13	13	19	22	25		
		5.1	5.8	5.1	11.4	12.8	11.2	7.2	13.4	13.5	19.0	21.8	25.3	25.4	33.0
381	Metal products		73	88	119	146	168	169	213	258	325	416	538	657	
		72	73	88	119	146	168	169	203	258	323	416	538		
		71.9	73.1	88.0	125.1	151.8	173.1	179.2	212.6	258.2	325.5	416.3	537.8	657.1	692.0
382	Machinery n.e.c.		33	48	83	269	299	292	357	415	527	745	1141	1012	
		28	33	48	83	269	299	292	354	396	545	745	1141		
		28.3	54.0	87.6	145.6	252.5	330.0	343.2	356.5	414.7	526.7	744.8	1140.9	1102.4	

a/ from 1975, 361 is included in 362.b/ 361 is included in 362.



COUNTRY: SINGAPORE

2.7

## Gross Fixed Capital Formation

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO NC 01		19.18	14.95	29.94	19.89	24.09	21.05	26.9	41.5	50.9	66.0	83.6	78.0	
		17.78	19.18	14.95	29.94	19.89	24.09	21.05	26.89	41.50	50.94	65.99	83.60		
		17.78	19.18	14.95	29.94	19.89	24.09	21.05	26.89	41.50	50.94	65.99	83.56	77.96	88.70
313	Beverages		2.68	2.59	5.25	5.32	5.58	4.27	10.0	8.1	9.3	13.7	15.9	26.3	
		2.80	2.68	2.59	5.25	5.32	5.58	4.27	10.05	8.10	9.27	13.69	15.90		
		2.80	2.69	2.59	5.25	5.32	5.58	4.27	10.05	8.10	9.27	13.69	15.88	26.29	21.65
314	Tobacco		2.14	1.31	2.76	4.80	2.83	1.81	2.6	3.8	6.4	10.7	3.9	6.7	
		0.90	2.14	1.31	2.76	4.80	2.83	1.81	2.61	3.77	6.39	10.66	3.90		
		0.90	2.14	1.31	2.76	4.80	2.83	1.81	2.61	3.77	6.39	10.66	3.94	6.71	19.30
321	Textiles		20.18	38.15	22.27	48.81	37.36	22.99	13.1	10.3	23.7	54.8	27.2	9.4	
		26.13	20.18	38.15	22.27	48.81	37.36	22.99	13.09	10.26	23.66	54.82	27.20		
		26.13	20.18	38.15	22.27	48.81	37.36	22.99	13.09	10.26	23.66	54.82	27.18	9.36	9.32
322	Wearing apparel		10.11	23.23	10.03	30.38	8.84	12.39	17.5	23.5	27.7	33.9	34.9	32.3	
		6.45	10.11	23.23	10.03	30.38	8.84	12.29	17.47	23.49	27.72	33.89	34.90		
		6.45	10.11	23.23	10.03	30.38	8.85	12.29	17.47	23.49	27.72	33.89	34.88	32.29	34.76
323	Leather and products		0.09	0.24	0.52	0.45	0.28	1.18	1.0	1.1	1.0	1.5	1.2	3.0	
		0.13	0.09	0.24	0.52	0.45	0.28	1.18	1.00	1.08	1.00	1.52	1.20		
		0.13	0.09	0.24	0.52	0.45	0.28	1.18	0.95	1.08	1.00	1.52	1.16	2.98	1.02
324	Footwear		0.91	1.36	1.00	0.63	0.86	3.76	1.6	1.6	5.9	5.3	5.8	3.7	
		1.06	0.91	1.36	1.00	0.63	0.86	3.76	1.60	1.58	5.93	5.26	5.80		
		1.06	0.91	1.36	1.00	0.63	0.86	3.76	1.60	1.58	5.93	5.26	5.83	3.68	4.92
331	Wood products		29.75	26.79	19.59	22.28	8.96	8.74	23.2	39.5	45.2	30.2	28.7	29.1	
		19.76	29.75	26.79	19.59	22.28	8.96	8.74	23.25	39.53	45.19	30.20	28.70		
		19.76	29.75	26.79	19.59	22.28	8.96	8.74	23.25	39.53	45.19	30.20	28.70	29.11	12.06

COUNTRY: SINGAPORE

## Gross Fixed Capital Formation

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
332	Furniture, fixtures		0.87	1.11	8.45	2.48	2.26	3.55	8.7	18.4	15.2	13.6	16.0	20.4		
		1.20	0.87	1.11	8.45	2.48	2.26	3.60	8.67	18.45	15.17	13.62	16.00			
		1.20	0.87	1.11	8.45	2.48	2.26	3.55	8.67	18.45	15.17	13.62	16.02	20.44	13.88	
341	Paper and products		4.34	4.32	9.16	6.88	5.66	7.29	9.4	9.4	12.0	39.0	90.0	57.0		
		3.37	4.34	4.32	9.16	6.88	5.66	7.29	9.38	9.44	11.99	39.02	90.00			
		3.37	4.34	4.32	9.16	6.88	5.66	7.29	9.38	9.44	11.99	39.02	90.01	57.06	34.36	
342	Printing, publishing		9.23	8.93	13.43	13.89	18.55	13.55	17.2	35.9	45.5	45.5	92.7	89.7		
		26.24	9.23	8.93	13.43	13.89	18.55	13.60	17.20	35.88	45.48	45.54	92.70			
		26.24	9.23	8.93	13.43	13.89	18.55	13.55	17.20	35.88	45.48	45.54	92.67	89.67	119.35	
351	Industrial chemicals		12.99	15.98	10.51	14.27	10.35	10.76	18.0	17.7	27.3	40.4	87.2	34.9		
		11.45	12.99	15.98	10.51	14.27	10.35	11.31	17.99	17.72	27.29	40.42	87.20			
		11.45	12.99	15.98	10.51	14.67	11.10	11.31	17.99	17.72	27.29	40.42	87.23	34.90	29.49	
352	Other chemical product		5.92	4.99	5.41	8.12	19.39	19.78	17.3	11.2	25.3	26.5	37.1	134.7		
		5.58	5.92	4.99	5.41	8.12	19.39	19.78	17.31	11.19	25.32	26.47	37.10			
		5.58	5.92	4.99	5.41	8.12	19.39	19.78	17.31	11.19	25.32	26.47	37.10	134.71	55.75	
353	Petroleum refineries <u>a/</u>		159.54	260.57	341.30	64.77	99.00	98.33	154.3	161.2	381.1	529.3	376.4	314.0		
		<u>a/</u>	163.66	159.54	260.57	341.30	64.77	99.00	98.33	154.30	161.20	381.08	529.30	376.40		
		<u>a/</u>	163.66	159.54	260.57	341.30	64.77	99.00	98.33	154.30	161.20	381.08	529.30	376.41	314.00	230.06
354	Petroleum, coal products <u>a/</u>															
		<u>a/</u>														
		<u>a/</u>														
355	Rubber products		5.63	5.33	6.25	7.17	4.46	5.63	7.7	5.6	12.1	4.5	8.7	19.2		
		7.18	5.63	5.33	6.25	7.17	4.46	5.63	7.70	5.65	12.06	4.46	8.70			
		7.18	5.63	5.33	6.25	7.17	4.46	5.63	7.03	5.65	12.06	4.46	8.72	19.26	24.39	

a/ 354 is included in 353.

COUNTRY: SINGAPORE

## Gross Fixed Capital Formation

Unit: Million Singapore Dollars

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
356	Plastic products n.e.c.		5.67	15.52	12.29	17.31	14.29	18.49	28.2	28.9	50.9	40.3	54.8	72.9		
		4.58	5.67	15.52	12.29	17.31	14.29	18.21	28.16	28.87	50.94	40.33	54.80			
		4.58	5.67	15.52	12.29	16.91	13.58	18.21	28.16	28.87	50.94	40.33	54.79	72.93	64.30	
361	Pottery, china etc.	a/		0.02	0.36	0.29	0.46									
		a/	2.36	0.02	0.36	0.29	0.46									
		b/														
362	Glass and products	a/		1.84	2.30	3.64	0.63	0.26	0.53	3.6	2.5	11.6	29.2	5.5	15.9	
		a/	0.56	1.84	2.30	3.64	0.63	0.26	0.57	3.65	2.47	11.58	26.16	5.50		
		b/	2.92	1.86	2.66	3.93	1.09	0.26	0.57	3.65	2.47	11.58	29.16	5.46	15.88	5.70
369	Non-metal products n.e.c.		6.98	5.88	14.79	15.35	36.39	19.42	12.6	7.3	8.4	17.8	32.5	79.7		
		12.01	6.98	5.88	14.79	15.35	36.39	19.21	12.57	7.26	8.45	17.79	32.50			
		12.01	6.98	5.88	14.79	15.35	36.39	19.42	12.57	7.26	8.45	17.79	32.55	79.73	143.70	
371	Iron and steel		7.28	7.32	12.83	24.17	13.70	2.43	5.0	4.8	4.5	17.6	12.9	33.7		
		5.41	7.28	7.32	12.83	24.17	13.70	2.54	4.98	4.80	4.51	17.60	12.90			
		5.41	7.28	7.32	12.83	24.31	14.02	2.54	4.98	4.80	4.51	17.55	12.87	33.69	49.74	
372	Non-ferrous metals		10.97	8.18	1.64	0.39	0.73	0.83	1.0	0.9	5.2	4.7	10.6	11.2		
		1.08	10.97	8.18	1.64	0.39	0.73	0.83	1.05	0.89	5.18	4.70	10.60			
		1.08	10.97	8.18	1.64	0.39	0.73	0.83	1.05	0.89	5.18	4.71	10.61	11.18	10.84	
381	Metal products		15.37	17.56	22.71	29.33	20.74	34.17	38.9	41.5	91.5	153.8	152.6	190.3		
		17.11	15.37	17.56	22.71	29.33	20.74	35.29	38.90	41.53	91.48	153.82	152.60			
		17.11	15.37	17.56	22.71	30.24	21.76	35.29	38.90	41.53	91.48	153.82	152.59	190.34	224.38	
382	Machinery n.e.c.		5.63	14.23	51.95	43.57	84.70	78.00	85.4	61.1	114.6	147.0	215.0	221.2		
		8.97	5.63	14.23	51.95	43.57	84.70	72.71	85.38	61.08	114.62	147.02	215.01			
		8.97	5.63	14.23	51.95	53.48	100.20	72.71	85.38	61.08	114.62	147.02	215.01	221.20	185.85	

a/ from 1975, 361 is included in 362.

b/ 361 is included in 362.



CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
311/2	Food products UN UNIDO	109	114	114	118	109	100	108	131	132	145	149	143	139	
		109	113	114	118	109	100	108	130	132	145	149	143		
313	Beverages	86	90	87	88	93	100	106	115	138	140	154	165	149	
		86	90	86	87	93	100	105	115	138	140	154	165		
314	Tobacco	89	81	89	107	105	100	94	100	101	100	96	98	116	
		86	81	88	107	105	100	94	100	101	101	96	98		
321	Textiles	60	80	110	128	110	100	130	131	117	116	121	107	80	
		60	81	110	128	110	100	130	131	117	116	121	107		
322	Wearing apparel	46	68	103	121	113	100	112	104	124	130	125	116	115	
		46	68	103	121	113	100	112	104	124	130	125	116		
323	Leather and products	128	108	123	145	102	100	113	141	103	102	91	88	61	
		127	108	122	144	101	100	113	141	103	102	91	88		
324	Footwear	121	138	138	106	99	100	90	65	56	65	61	67	48	
		120	137	137	106	99	100	90	65	56	65	61	67		
331	Wood products	103	115	147	152	102	100	108	74	108	97	83	78	68	
		103	114	147	152	102	100	108	74	108	97	83	78		

COUNTRY: SINGAPORE

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
332	Furniture, fixtures	90	98	84	113	104	100	105	125	181	221	236	302	280	
		90	98	84	114	105	100	105	124	181	221	236	302		
341	Paper and products	48	64	72	124	112	100	119	133	146	156	172	177	163	
		48	64	71	124	112	100	119	133	146	156	172	177		
342	Printing, publishing	88	94	97	101	104	100	110	126	143	146	178	195	197	
		88	94	96	101	104	100	110	127	143	146	178	195		
351	Industrial chemicals	52	60	67	78	100	100	124	127	151	166	166	189	198	
		52	61	67	78	100	100	124	127	151	166	166	189		
352	Other chemical product	34	38	41	72	84	100	106	130	145	143	173	182	190	
		34	38	41	71	83	100	106	129	145	143	173	182		
353	Petroleum refineries <u>a/</u>	103	118	139	139	136	100	118	134	143	151	144	169	174	
		<u>a/</u>	103		139	139	136	100	118	134	143	151	145	169	
354	Petroleum, coal products <u>a/</u>														
355	Rubber products	113	119	115	120	111	100	101	112	120	116	126	118	107	
		112	116	115	119	110	100	101	111	120	117	126	118		

a/ 354 is included in 353.



COUNTRY: SINGAPORE

## Index Numbers of Industrial Production (1975=100)

CODE	INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
356	Plastic products n.e.c.	36	51	74	101	99	100	135	135	158	148	148	146	147	
		36	51	74	100	99	100	135	135	159	149	148	146		
361	Pottery, china etc. <u>a/</u>	170	124	107	114	129	100	103	105	148	170	151	199		
362	Glass and products <u>a/</u>	170	123	107	114	128	100	103	105	148	170	151	199	211	
		170	124	107	114	129	100	103	105	148	170	151	199		
369	Non-metal products n.e.c.	68	74	88	96	94	100	106	134	118	134	123	138	140	
		68	74	88	96	94	100	106	134	119	135	123	138		
371	Iron and steel	62	68	78	76	87	100	103	104	133	149	152	166	216	
		63	67	78	77	88	100	103	104	133	150	152	166		
372	Non-ferrous metals	155	118	104	141	128	100	112	111	117	164	174	150	128	
		155	119	105	142	128	100	113	111	117	164	174	150		
381	Metal products	90	92	105	112	113	100	95	104	114	127	130	140	128	
		90	92	105	112	113	100	95	104	114	127	130	140		
382	Machinery n.e.c.	27	36	58	69	70	100	83	95	115	151	183	206	213	
		27	36	58	69	70	100	83	95	115	152	183	206		

a/ 361 is included in 362.



III. Differences between ISIC and SSIC  
(Singapore Standard Industrial Classification)

## Differences of major groups between the UN ISIC and SSIC

No. 1

ISIC	Title	SSIC 1973,78	Title	SSIC 1969	Title
355	Manufacture of rubber products	355	Processing of natural rubber and gums	355	Processing of jelutong & gum damar
		356	Manufacture of rubber products except rubber footwear and toys	356	Rubber products except rubber footwear
356	Manufacture of plastic products not elsewhere classified	357	Manufacture of plastic products not elsewhere classified	357	Plastic products
369	Manufacture of other non-metallic mineral products	363	Manufacture of structural clay products	363	Bricks, tiles & other structural clay products
		364	Manufacture of cement	364	Cement & cement additives
		365	Manufacture of structural cement and concrete products	365	Structural cement & concrete products
		369	Manufacture of non-metallic mineral products not elsewhere classified	369	Asbestos, stone & other non-mineral products
383	Manufacture of electrical machinery, apparatus, appliances and supplies	383	Manufacture of electrical machinery, apparatus, appliances and supplies	383	Radios, televisions, semi-conductors & other electrical machinery
		384	Manufacture of electronic products and components		
384	Manufacture of transport equipment	385	Manufacture of transport equipment	384	Transport equipment & oil rigs
385	Manufacture of professional and scientific, and measuring and controlling equipment, not elsewhere classified, and of photographic and optical goods	386	Manufacture of instrumentation equipment, photographic and optical goods (including professional, scientific, measuring and controlling equipment)	385	Professional & scientific equipment & photographic & optical goods

UN ISIC		Title	SSIC 1978		Title
Major Group	Group		Major Group	Group	
	3312	Manufacture of wooden and cane containers and small cane ware		3312	Manufacture of wooden containers
				3313	Rattan processing and manufacturing of rattan products except furniture
	3529	Manufacture of chemical products not elsewhere classified		3524	Manufacture of matches and fireworks
				3525	Manufacture of incense and joss sticks
				3529	Manufacture of other chemical products not elsewhere classified
355		Manufacture of rubber products	355	3550	Processing of natural rubber and gums
			356		Manufacture of rubber products, except rubber footwear and toys
	3551	Tyre and tube industries		3561	Manufacture and retreading of tyres and tubes
	3559	Manufacture of rubber products not elsewhere classified		3569	Manufacture of other rubber products, except rubber footwear and toys
356	3560	Manufacture of plastic products not elsewhere classified	357	3570	Manufacture of plastic products not elsewhere classified

UN ISIC			SSIC 1978			Title
Major Group	Group	Title	Major Group	Group	Item	
382		Manufacture of machinery except electrical and electronic	382			Manufacture of machinery except electrical and electronic
	3821	Manufacture of engines and turbines		3829 (part)	38291	Manufacture and repair of turbines and engines
					38292	General engineering works
	3822	Manufacture of agricultural machinery and equipment		3825 (part)	38251	Manufacture and repair of agricultural machinery
	3823	Manufacture of metal and wood working machinery		3824		Manufacture and repair of metalworking machinery and equipment
				3825 (part)	38253	Manufacture and repair of woodworking machinery
	3824	Manufacture of special industrial machinery and equipment except metal and wood working machinery		3823 (part)	38231	Manufacture and repair of oilfield and gasfield machinery and equipment
					38232	Manufacture and repair of construction machinery and parts
					38239	Manufacture and repair of mining, oilfield and gasfield, construction and related machinery and equipment nec.
				3825 (part)	38252	Manufacture and repair of food products machinery
				38259	Manufacture and repair of other specialised machinery nec.	
3825	Manufacture of office, computing and accounting machinery		3821		Manufacture and repair of office and computing machines	
			3841 (part)	38411	Manufacture and repair of computers and data processing equipment including computer peripheral equipment	
				38412	Manufacture and repair of electronic office machinery and equipment	

UN ISIC			SSIC 1978			
Major Group	Group	Title	Major Group	Group	Item	Title
	3825				38419	Manufacture and repair of industrial/commercial electronic products nec.
	3829	Machinery and equipment except electrical not elsewhere classified		3822		Manufacture and repair of refrigerating, air conditioning and ventilating machinery and equipment except repair of household refrigerators and air conditioners
				3823 (part)	38233	Manufacture and repair of lifting and hoisting machinery except electrical
					39234	Manufacture and repair of lifts, escalators, conveyors and conveying equipment and parts
				3829	38299	Manufacture and repair of other machinery and equipment except electrical and electronic nec.

UN ISIC		Title	SSIC 1978		Title
Major Group	Group		Major Group	Group	
383		Manufacture of electrical machinery, apparatus, appliances and supplies	383		Manufacture of electrical machinery, apparatus, appliances and supplies
	3832	Manufacture of radio, television and communication equipment and apparatus		384	Manufacture of electronic products and components
				3841 (p) 38413	Manufacture and repair of communication equipment
	3839	Manufacture of electrical apparatus and supplies not elsewhere classified		3842	Manufacture of audio and video consumer electronic products
				3839	Manufacture of other electrical equipment and supplies
				3843	Manufacture of other consumer electronic products except watches and clocks
				3844	Manufacture of semiconductor devices
				3845	Manufacture of electron tubes
				3846	Manufacture of other electronic components
				3847	Manufacture of Military electronic products
				3849	Manufacture of other electronic products and components not elsewhere classified
384		Manufacture of transport equipment	385		Manufacture of transport equipment
	3841	Ship building and repairing		3851	Building and repairing of ships and boats
	3842	Manufacture of railroad equipment		3852	Manufacture and repair of railroad equipment
	3843	Manufacture of motor vehicles		3853	Manufacture of motor vehicles and motor vehicle bodies
	3844	Manufacture of motorcycles and bicycles		3854	Manufacture of motor-cycles, scooters and bicycles
	3845	Manufacture of aircraft		3855	Manufacture and repair of aircraft
	3849	Manufacture of transport equipment not elsewhere classified		3859	Manufacture of transport equipment not elsewhere classified



UN ISIC		Title	SSIC 1978		Title
Major Group	Group		Major Group	Group	
385		Manufacture of professional and scientific, and measuring and controlling equipment, not elsewhere classified, and of photographic and optical goods	386		Manufacture of instrumentation equipment, photographic and optical goods (including professional scientific, measuring and controlling equipment)
	3851	Manufacture of professional and scientific, and measuring and controlling equipment not elsewhere classified	3861		Manufacture of engineering and scientific instruments
	3852	Manufacture of photographic and optical goods	3862		Manufacture of measuring and controlling devices
	3853	Manufacture of watches and clocks	3863		Manufacture of surgical and medical instruments and supplies
390		Other manufacturing industries	3864		Manufacture of photographic and optical goods (including photocopying equipment)
	3902	Manufacture of musical instruments	3865		Manufacture of watches and clocks (including parts and accessories)
	3903	Manufacture of sporting and athletic goods	390		Other manufacturing industries
	3909	Manufacturing industries not elsewhere classified	3902 (p)		Manufacture of musical instruments
			39022		Manufacture of musical instruments
			3902 (p)		Manufacture of sporting and athletic goods
			39021		Manufacture of sporting and other recreational goods nec.
			39029		Manufacture of sporting and other recreational goods nec.
			3903		Manufacture of toys
			3909		Other manufacturing industries not elsewhere classified

#### IV. Commodity Balance Sheets

1. Coconut oil
2. Prepared animal feeds
3. Soft drinks
4. Cigarettes and cigars
5. Footwear
6. Sawntimber
7. Plywood and veneer
8. Bread, ships' biscuits, etc.
9. Sugar confectionery
10. Alcoholic drinks
11. Paints, enamels, varnishes, lacquers and allied products
12. Soap, detergents washing and other cleaning preparations
13. Distillate fuel oils
14. Residual fuel oils
15. Tyres & tubes
16. Bricks (made of clay)
17. Cement
18. Refrigerators
19. Television receivers
20. Radio receivers
21. Umbrellas

## Explanatory Notes

### I. Classification:

ISIC Code=Commodity code prepared by the United Nations based on International Standard Industrial Classification.

NSIC Code=Commodity code prepared by each country based on Standard Industrial Classification.

SITC Code=Commodity code prepared by the United Nations based on International Standard Trade Classification.

NSTC Code=Commodity code prepared by each country based on Standard Trade Classification.

"\*" indicates a commodity (group) which is not indicated disaggregated further (e.g. a more detailed definition is not used).

### II. Unit:

Quantity=Quantity code prepared by UNIDO.

Currency=Currency code prepared by IDE.

Please refer to Appendix I (Quantity Unit Code) and Appendix II (Currency Unit Code).

### III. Source:

Data Sources are summarized in Appendix III (List of Data Sources). Only the numbers corresponding to the sources used appear in the tables.

### IV. Reference Period:

The tables use calendar years unless special notes or footnotes indicates otherwise (e.g. use of fiscal years).

QUANTITY UNIT CODEAppendix I

<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>	<u>CODE</u>	<u>UNIT</u>
GM	GRAMMES	GTM	GROSS TONS	SWN	SHAFT HORSEPOWER
LM	LITRES	GUN	U.S. GALLONS	SYN	SQUARE YARDS
LN	LITRES	HEM	HEADS	TCM	TERACALORIES
MM	METRES	HLM	HECTOLITRES	TJM	TERAJOULES
MN	METRES	HPM	HORSEPOWER	TON	TROY OUNCES
PN	PIECES	KGM	KILOGRAMS	TYM	M. TONS PER YEAR
TM	METRIC TONS	KHM	KILOWATTHOUR	YDN	YARDS
TN	METRIC TONNES	KLM	KILOLITRES		
BCN	CAN. BARRELS	KVM	KVA	CYL*	CYLINDER
BDM	BARRELS/CAL. DAY	KWN	KILOWATTS	BAG*	BAGS
BFN	BOARD FEET	KWM	KILOWATTS	BTL*	BOTTLES
BUN	U.S. BARRELS	LBN	POUNDS	CAS*	CASES
CFN	CUBIC FEET	LTN	LONG TONS	BOX*	BOXES
CLN	CENTALS	MTN	METRIC TONS	CAN*	CANS
CMM	CUBIC METRES	NOM	NUMBER UNITS	SHT*	SHEETS
CMN	CUBIC METRES	NOM	UNITS		
CRM	CARATS	PRM	PAIRS		
CTN	BARRELS	SPN	SQUARE FEET		
CWN	HUNDREDWEIGHT	SHM	TONS OF STEAM PER HOUR		
CYN	CUBIC YARDS	SMM	SQUARE METRES		
FLN	FLASKS	SMN	SQUARE METRES		
FTN	FEET	SPM	NUMBER OF SPINDLES		
GIN	IMPERIAL GALLONS	STN	SHORT TONS		
GPN	PROOF CALLONS				
GRN	GROSS				

Note: The codes put on "\*" are prepared by IDE.

CURRENCY UNIT CODE

<u>CODE</u>	<u>CURRENCY</u>	<u>COUNTRY</u>
TK	TAKA	BANGLADESH
KY	KYAT	BURMA
H\$	HK\$	HONG KONG
IR	RUPEE	INDIA
RP	RUPIA	INDONESIA
WN	WON	KCREA REPUBLIC
M\$	RINGGIT	MALAYSIA
PR	RUPEE	PAKISTAN
PE	PESO	PHILIPPINES
S\$	Singapore Dollar(s)	SINGAPORE
BH	BHAT	THAILAND
\$	US\$	USA

List of Data Sources

Source No.

1. UN, "Yearbook of Industrial Statistics Vol. I. General Industrial Statistics"
2. UN, "Yearbook of Industrial Statistics, Vol.II. Commodity Production Statistics"
3. ESCAP, "Statistical Yearbook"
4. AIDXT (International Trade Data Base compiled by IDE based on the magnetic tapes of international trade statistics supplied by UN and OECD)
5. UNIDO, General Industrial Data Base.
6. UNIDO, Commodity Production Data Base.
7. UNIDO, Production Index Data Base.
8. UN, "Yearbook of International Trade Statistics"
9. UN, "Statistical Yearbook"
- 10.
11. Department of Statistics, "Report on the Census of Industrial Production"
12. Department of Statistics, "Yearbook of Statistics"

Country: Singapore

Commodity: Coconut Oil

ISIC Code	311534*								Note:
NSIC Code									
SITC Code	4223								
NSTC Code									
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000S\$		1000US\$	1000US\$	
1970	34232		38050	14125	31019		12019	3972	
1971	33324		36073	26740	27747		11808	7060	
1972	30656		31354	16173	18206		8133	3051	
1973	19111		28801	23976	20199		12025	9528	
1974	12044		23629	19525	26961		22769	15491	
1975	19543		25633	14999	20099		14432	6136	
1976	24697		33192	23687	24521		15021	9273	
1977	18692		39351	28287	29036		27364	16137	
1978	19749		37319	20824	30197		27535	12975	
1979	21331		41982	21458	41148		39065	18032	
1980	22244		35027	20551	35145		29004	14460	
1981	19008		64713	56378	24253		40338	31609	
1982	13942		50043	27988	14558		26731	12730	
1983	19579		35277	25781	31620		24532	17291	
1984	-		-	-	-		-	-	

Country: Singapore

Commodity: Prepared Animal Feeds

ISIC Code	31220!								Note:
NSIC Code	31220								
SITC Code	08199								
NSTC Code									
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TH		TH	TH	1000S\$		1000US\$	1000US\$	
1970	313649		-	-	97999		-	-	
1971	345009		-	-	111687		-	-	
1972	354090		-	-	115735		-	-	
1973	408693		-	-	166602		-	-	
1974	343013		-	-	166101		-	-	
1975	308951		87868	33391	145801		17773	7775	
1976	239934		105939	46781	120769		21223	10933	
1977	290724		128579	26693	160066		27176	7899	
1978	299918		130082	7687	164801		29231	4833	
1979	306283		137864	7873	179297		32388	5650	
1980	333973		126121	4940	229232		36300	6224	
1981	255079		76710	7015	194323		20055	7276	
1982	238038		60061	6083	178484		20652	8231	
1983	210480		42210	12623	165220		17840	9149	
1984	-		-	-	-		-	-	



Country: Singapore

Commodity: Soft Drinks

Source	Quantity				Value			
	11		4	4	11		4	4
	Production	Shipment	Export	Import	Production	Shipment	Export	Import
Unit	KLH		KLH a/	KLH a/	1000S\$		1000US\$	1000US\$
1970	77601		3528	2818	27143		712	702
1971	87991		3100	2701	30439		700	645
1972	124047		3434	3959	34962		928	894
1973	97087		3979	6127	33692		1337	1374
1974	107415		4115	5840	47077		1863	1788
1975	114301		5861	5717	61512		2971	2397
1976	125222		7444	7488	75051		3686	2877
1977	143596		12415	6616	88767		6200	2815
1978	174883		30855	5413	112102		10941	2393
1979	169750		38193	7527	120066		22543	3955
1980	175121		42557	21020	126401		25309	9883
1981	184506		45697	11425	172210		30719	6337
1982	180038		50704	18505	164831		35553	10299
1983	197274		52864	49304	171100		34757	24798
1984	-		-	-	-		-	-

Note:

a/ Unit used is "kilolitre" for 1970-1978 and "ton" for 1979-1983.

Country: Singapore

Commodity: Cigarettes and Cigars

ISIC Code	314004, 314007								Note:
NSIC Code	3140*								
SITC Code	1221, 1222								
NSTC Code									
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000S\$		1000US\$	1000US\$	
1970	2935		1552	2258	95938		11095	14879	
1971	2695		1574	2371	92239		11391	15945	
1972	2901		1673	2483	101119		12872	16951	
1973	3296		687	1263	127895		4593	7552	
1974	3443		563	1630	140749		3707	10337	
1975	3331		481	1422	142407		3220	10598	
1976	3183		410	1291	149969		2946	10823	
1977	3409		508	1231	161490		4582	11319	
1978	3463		717	1480	164906		8056	15398	
1979	3182		1000	1881	160131		12135	22388	
1980	3086		1406	2337	165204		19688	31868	
1981	3128		1294	2804	192228		22070	41532	
1982	3800		2252	3305	216510		40185	52981	
1983	3532		2315	4000	204853		41740	68848	
1984	-		-	-	-		-	-	

Country: Singapore

Commodity: Footwear

ISIC Code	321000								Note:
NSIC Code	3240								
SITC Code	8510								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000 PRM				1000US\$		1000US\$	1000US\$	
1970	7977				17854		4416	2769	
1971	10857				23705		6062	3483	
1972	9339				25908		7228	3536	
1973	6573				23577		7203	5527	
1974	5570				27238		10017	9702	
1975	4695				30233		12192	14742	
1976	3941				33744		14392	16535	
1977	3996				30623		14576	21394	
1978	5104				35502		19817	27216	
1979	8721				52068		33910	29659	
1980	6849				53293		30220	48313	
1981	6464				55223		40669	62889	
1982	3690				45316		26009	82746	
1983	3914				44112		21279	92909	
1984	-				-		-	-	

Country: Singapore

Commodity: Sawntimber

ISIC Code	3311								Note:
NSIC Code	33111*								
SITC Code	2422, 2423								
NSTC Code									
Source	Quantity				Value				
	11 Production	Shipment	Export	Import	11 Production	Shipment	12 Export	12 Import	
Unit	1000CMM				1000S\$		1000S\$	1000S\$	
1970	796				97235		109500	33200	
1971	657				76282		95000	29500	
1972	728				101912		131300	36000	
1973	824				173576		313600	110200	
1974	500				90038		213600	115500	
1975	381				67333		152100	105100	
1976	443				94172		305100	208600	
1977	302				73820		319300	244000	
1978	364				95934		390700	267700	
1979	371				125324		640800	352000	
1980	282				103134		568900	339500	
1981	188				59782		401900	294000	
1982	136				40137		347200	288900	
1983	114				36496		-	-	
1984	-				-		-	-	

Country: Singapore

Commodity: Plywood and Veneer

Source Unit	Quantity				Value			
	11	4	4	4	11	4	4	4
	Production 1000SMM	Shipment	Export 1000SMM <sup>a/</sup>	Import 1000SMM <sup>a/</sup>	Production 1000S\$	Shipment	Export 1000US\$	Import 1000US\$
1970	50039		38688	11415	56610		17421	6878
1971	71931		64483	16535	82677		23935	8201
1972	90678		-	-	109963		38422	12438
1973	122018		-	-	224341		85408	25255
1974	93135		-	-	182908		68350	22529
1975	113819		-	-	186188		73814	24676
1976	124167		-	-	239222		99814	38572
1977	116607		-	-	254950		101861	41886
1978	150936		-	-	321411		136128	53909
1979	172445		641253	344512	493647		199417	91113
1980	123039		635825	365664	439429		218589	98960
1981	111708		605010	451440	393012		209843	105513
1982	92665		625462	430476	289775		191131	98756
1983	89859		706780	497327	284665		213371	111243
1984	-		-	-	-		-	-

Note:

a/ Unit used is SMM for 1970-1971  
and CMM for 1979-1983.

Country: Singapore

Commodity: Bread, ships' biscuits, etc.

ISIC Code		311704							Note:
NSIC Code		31172							
SITC Code		04841							
NSTC Code									
		Quantity				Value			
Source	11	4	4	11	4	4			
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000S\$		1000US\$	1000US\$	
1970	17629		16	61	7956		18	47	
1971	17161		14	83	8111		19	70	
1972	17710		15	90	8847		26	85	
1973	14592		12	100	10927		27	122	
1974	15074		19	111	15461		41	151	
1975	15739		32	100	15713		37	160	
1976	13932		26	108	13822		33	166	
1977	12462		40	127	11564		58	149	
1978	13995		52	112	13205		70	199	
1979	13460		335	129	16344		442	252	
1980	-		464	155	-		586	358	
1981	-		675	237	-		1008	489	
1982	-		653	258	-		971	518	
1983	-		625	241	-		922	531	
1984	-		-	-	-		-	-	

Country: SingaporeCommodity: Sugar Confectionery

ISIC Code	311904								Note:
NSIC Code	31193								
SITC Code	06201								
NSTC Code									
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	TM		TM	TM	1000S\$		1000US\$	1000US\$	
1970	2575		958	4513	6284		663	2823	
1971	2929		1084	4772	8089		780	3609	
1972	3330		1376	3367	10976		1101	2949	
1973	3809		1783	4289	14006		1648	4378	
1974	2070		1817	4850	18717		1813	5747	
1975	1878		1413	2709	6347		1680	4501	
1976	2261		1804	3513	6718		2422	5836	
1977	2078		2216	3747	7191		2765	6413	
1978	2069		2232	3028	7297		3315	5878	
1979	2160		-	-	7387		-	-	
1980	-		-	-	-		-	-	
1981	-		-	-	-		-	-	
1982	-		-	-	-		-	-	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Singapore

Commodity: Alcoholic drinks

ISIC Code		3131, 3132, 3133						
NSIC Code		31310, 31320, 31330						
SITC Code		112						
NSTC Code								
		Quantity			Value			
Source	Production	Shipment	4 Export KLM a/	4 Import KLM a/	11 Production 1000S\$	Shipment	4 Export 1000US\$	4 Import 1000US\$
Unit								
1970			-	-	35901		8062	16174
1971			-	-	36315		8052	19217
1972			13585	19654	33434		8249	18086
1973			8928	18978	39751		8451	27059
1974			12340	17956	43915		8891	22448
1975			15197	19210	59675		10592	26782
1976			16591	21234	61825		12519	30557
1977			21195	21281	68113		15286	34351
1978			24128	21962	80221		18539	42316
1979			28380	20904	84732		24924	49172
1980			31580	21495	102550		27311	67323
1981			28422	21496	131993		26774	68254
1982			17515	22036	-		23600	72409
1983			15490	30204	119406		21616	82456
1984			-	-	-		-	-

Note:

a/ Unit used is KLM for 1972-1978  
and TM for 1979-1983.



Country: Singapore

Commodity: Paints, Enamels, Varnishes, Lacquers and Allied Products

ISIC Code	3521								Note:
NSIC Code	35210								
SITC Code	533								
NSTC Code									
	Quantity				Value				
Source	11				11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	KLM				1000S\$		1000US\$	1000US\$	
1970	9163				18999		2111	8638	
1971	11090				21866		2987	10460	
1972	11826				27176		3641	14885	
1973	13604				36690		5327	18520	
1974	14196				51925		6938	26170	
1975	13754				51658		6705	27202	
1976	7867				32088		7901	34919	
1977	19995				67982		9700	38225	
1978	22453				75015		13291	50510	
1979	22623				83202		17124	64738	
1980	25497				105690		26799	88774	
1981	29804				141514		41509	111209	
1982	30262				136596		39740	94615	
1983	33554				138705		34288	83851	
1984	-				-		-	-	

Country: Singapore

Commodity: Soap, Detergents Washing and Other Cleaning Preparations

ISIC Code		352301		352304					Note:	
NSIC Code		35231								
SITC Code		554								
NSTC Code										
		Quantity				Value				
Source	11		4	4	11		4	4		
	Production	Shipment	Export	Import	Production	Shipment	Export	Import		
Unit	TM		TM	TM	1000S\$		1000US\$	1000US\$		
1970	18548		9411	8727	16298		4253	5271		
1971	20999		10110	10668	17948		4743	6960		
1972	22325		11758	11496	19574		5310	8106		
1973	24264		12054	7844	23083		5661	8566		
1974	21013		12181	16497	27666		7761	16297		
1975	18503		11267	17514	26738		8436	22416		
1976	26993		16804	16368	36146		12348	18296		
1977	24071		20071	19812	37010		15522	20216		
1978	21513		17619	19624	34019		14695	24164		
1979	23532		24210	21457	46520		22603	28489		
1980	29141		26763	22556	68539		29042	33364		
1981	29568		30559	24461	70324		37380	39047		
1982	27882		26622	22198	60312		34975	39060		
1983	30723		35471	30072	63282		43242	44273		
1984	-		-	-	-		-	-		

Country: Singapore

Commodity: Distillate Fuel Oils

ISIC Code	353019A								Note:
NSIC Code									
SITC Code	332.3								
NSTC Code									
	Quantity				Value				
Source	6		4	4			4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM		1000TM	1000TM			1000US\$	1000US\$	
1970	1660		2342	1575			52694	35777	
1971	2370		2892	1359			73382	35991	
1972	3260		2953	812			80230	22829	
1973	4567		3210	798			113608	26598	
1974	4307		3693	403			330142	37140	
1975	3863		2701	614			272736	66113	
1976	5048		2572	578			280221	65033	
1977	5569		3306	471			389366	55223	
1978	6780		3604	242			449984	29426	
1979	6566		3953	76			743721	18712	
1980	6200		4461	575			1246550	184964	
1981	6650		5043	285			1585936	92818	
1982	-		5893	793			1810961	243527	
1983	-		14154	874			3186367	1619851	
1984	-		-	-			-	-	

Country: Singapore

Commodity: Residual Fuel Oils

ISIC Code	353022A								Note:
NSIC Code									
SITC Code	332.4								
NSIC Code									
	Quantity				Value				
Source	6		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TH		1000TH	1000TH	1000S\$		1000US\$	1000US\$	
1970	6977		5634	5282	-		66041	61209	
1971	9075		7184	3091	-		114189	47503	
1972	11365		7293	3982	-		115293	64468	
1973	11213		7056	4233	546700		148664	82547	
1974	10526		6975	3020	1794000		466745	204086	
1975	8106		5134	3359	1425500		408581	247202	
1976	9127		6364	5277	1778400		486280	395657	
1977	10209		7538	3359	2090300		614903	273374	
1978	10154		8093	2543	1899400		687700	208516	
1979	10340		4080	288	2621900		664608	56379	
1980	13500		9326	4624	-		1643424	856857	
1981	14200		9131	3525	-		1968917	732798	
1982	-		9468	7326	-		1962091	1333914	
1983	-		-	-	-		-	-	
1984	-		-	-	-		-	-	

Country: Singapore

Commodity: Tyres &amp; Tubes

Source	Quantity				Value			
	Production	Shipment	4	4	11	Shipment	4	4
			Export	Import	Production		Export	Import
Unit			1000NOH	1000NOH	1000S\$		1000US\$	1000US\$
1970			-	-	25420		4562	4727
1971			-	-	29306		591	5241
1972			1113	1183	27201		5419	3745
1973			941	1440	28831		5762	6104
1974			962	2239	35102		7904	11877
1975			837	1707	31686		7701	9086
1976			601	984	33132		6202	8512
1977			-	-	36339		8841	11798
1978			1126	-	39508		9898	12480
1979			1295	949	48531		13609	16437
1980			1566	2244	35709		17263	35168
1981			1914	2178	12892		17501	41994
1982			1318	2353	-		19459	50945
1983			1306	2825	11281		20068	55136
1984			-	-	-		-	-

Note:

Country: Singapore

Commodity: Bricks (made of clay)

Source	Quantity				Value			
	12 Production 1000PH	4 Shipment	4 Export TH	4 Import TH	12 Production 1000S\$	4 Shipment	4 Export 1000US\$	4 Import 1000US\$
1970	76996		-	-	6564		29	115
1971	79827		596	18039	7750		28	352
1972	77436		539	39414	8582		23	858
1973	91511		433	24942	10631		23	639
1974	96796		262	27281	14555		32	941
1975	80673		502	18636	12824		38	758
1976	92377		476	26317	14896		34	1074
1977	85231		1027	22163	13944		69	1045
1978	72628		1072	10845	12100		89	507
1979	91191		658	10370	19500		61	525
1980	92122		-	-	28500		75	457
1981	93327		-	-	32500		193	2830
1982	129862		-	-	40500		205	7493
1983	-		-	-	-		225	9771
1984	-		-	-	-		-	-

Note:

Country: Singapore

Commodity: Cement

ISIC Code	369204								Note:
NSIC Code	36400								
SITC Code	6612								
NSTC Code	6612								
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000TM		1000TM	1000TM	1000S\$		1000US\$	1000US\$	
1970	728		16	760	34900		404	8376	
1971	802		8	889	41100		283	11433	
1972	1045		12	1031	58100		646	13740	
1973	1115		24	1182	74926		1219	22541	
1974	1181		44	1187	127227		2536	42311	
1975	1337		170	1390	157136		9469	46709	
1976	1532		105	1599	161482		5878	43104	
1977	1550		161	1449	165880		8904	43760	
1978	1628		347	1636	179908		18906	60910	
1979	1808		432	1682	225159		25709	69999	
1980	1952		467	1831	277097		31615	93622	
1981	2253		473	1954	347188		37885	107758	
1982	2695		434	2685	405663		35024	134618	
1983	3153		462	3607	-		37180	169153	
1984	-		-	-	-		-	-	

Country: Singapore

Commodity: Refrigerators

Source	Quantity				Value				Note:
	12	4	4	12	4	4	12		
Unit	Production NOH	Shipment	Export NOH	Import NOH	Production 1000S\$	Shipment	Export 1000US\$	Import 1000US\$	
ISIC Code	382829	382958							
NSIC Code									
SITC Code	725.01								
NSTC Code									
1970	31000		-	-	11300		633	2808	
1971	32000		-	-	12500		747	1971	
1972	40000		11505	17399	13700		1077	2328	
1973	54000		4907	11639	21900		804	2128	
1974	43000		8175	17605	20000		1728	3326	
1975	45000		7007	-	21900		1652	2274	
1976	54000		-	-	25600		2081	2472	
1977	57000		-	-	31700		3110	3144	
1978	73000		25630	-	47000		7138	5314	
1979	80000		31526	12136	51800		8935	3391	
1980	93000		54120	30272	60100		16612	8042	
1981	93000		65877	30988	61200		19975	9770	
1982	-		62982	29601	-		19163	7900	
1983	-		51108	48022	-		15778	12132	
1984	-		-	-	-		-	-	



Country: Singapore

Commodity: Television Receivers

ISIC Code: 383201  
 NSIC Code: 38422 38423  
 SITC Code: 724.1  
 NSTC Code: 761

Note:

Source	Quantity				Value			
	12 Production 1000NH	Shipment	1 Export 1000NH	4 Import 1000NH	12 Production 1000\$	Shipment	4 Export 1000US\$	4 Import 1000US\$
1970	45		-	-	20351		210	6255
1971	34		-	-	24246		1866	8028
1972	84		-	-	25059		10258	10603
1973	114		-	-	28240		25901	14621
1974	195		-	-	61924		37736	33807
1975	397		-	-	105889		55140	32057
1976	486		-	-	133379		78250	36271
1977	560		-	-	160936		119819	57300
1978	725		-	-	234600		189677	69122
1979	1390		1379	204	399500		185672	58864
1980	1889		1985	386	512700		264832	88731
1981	2231		2363	423	667800		344485	103071
1982	1502		1867	524	495700		287358	104107
1983	1361		1781	661	-		286113	116951
1984	-		-	-	-		-	-

Country: Singapore

Commodity: Radio Receivers

Source	Quantity				Value			
	12 Production	4 Shipment	4 Export	4 Import	12 Production	4 Shipment	4 Export	4 Import
Unit	1000NOM		1000NOM	1000NOM	1000S\$		1000US\$	1000US\$
1970	1140		-	-	12700		8051	15221
1971	2389		-	-	24400		18667	20102
1972	6628		-	-	118600		46033	29989
1973	7926		-	-	145900		65783	48180
1974	8988		-	-	195700		102407	63459
1975	7221		-	-	201400		95447	57965
1976	10737		-	-	226900		130602	56094
1977	9726		-	-	248000		178468	78723
1978	11717		-	-	337400		241288	104243
1979	16748		18716	2963	651600		376118	117010
1980	17070		21749	6020	882600		643605	229377
1981	16028		19912	4250	877400		572207	188352
1982	13461		14937	4491	732400		448633	158614
1983	-		14388	4883	-		453869	200853
1984	-		-	-	-		-	-

Note:

Country: Singapore

Commodity: Umbrellas

ISIC Code	3909*								Note:
HSIC Code	39091								
SITC Code	899.41								
NSIC Code									
	Quantity				Value				
Source	11		4	4	11		4	4	
	Production	Shipment	Export	Import	Production	Shipment	Export	Import	
Unit	1000NOH		1000NOH	1000NOH	1000US\$		1000US\$	1000US\$	
1970	2208		-	-	6070		371	596	
1971	2760		-	-	8024		494	923	
1972	3204		668	1650	8791		609	830	
1973	3408		1285	2373	11822		1257	1588	
1974	4764		1678	2394	16359		2053	2405	
1975	5088		2347	4445	16708		2747	4216	
1976	4080		3106	2614	13064		3546	2431	
1977	4404		4271	3190	13707		5370	3317	
1978	4680		4363	2513	15956		5880	2611	
1979	6696		4665	2137	23813		7987	2833	
1980	6648		-	-	23954		8997	4900	
1981	5064		-	-	19713		8151	4977	
1982	5256		-	-	17494		9678	6815	
1983	5604		-	-	18870		9703	7496	
1984	-		-	-	-		-	-	