

EXECUTIVE SUMMARY

The National Statistical Office (NSO) is undertaking Industrial Census in 2007. This is the third census of Thailand, after having conducted the first one in 1964 and the second in 1997. The main objective of the census is to collect basic information on manufacturing establishments, such as number, distribution and performance of establishments during the year. Prior to this report, basic information on the structure and distribution of establishment engaged in all economic activities is collected, was presented in the listing report of 2007 Industrial Census (basic information) Whole Kingdom.

The statistical data presents the results of the 2007 Industrial Census concerning detailed information during January 1, 2006 to December 31, 2006 of manufacturing establishments, located in the **Whole Kingdom**. The main findings are as follows;

Number of establishments by division of industry

The results of the 2007 Industrial Census, show that there were totally 457,968 manufacturing establishments, located in the Whole Kingdom. The highlight industries were *manufacture of food products and beverages*, *manufacture of wearing apparel* and *manufacture of textiles*. There were about 25.3, 18.1 and 17.9 percent respectively. The followings were *manufacture of wood and product wood* (about

14.1 percent) and *manufacture of fabricated metal products* (about 7.5 percent).

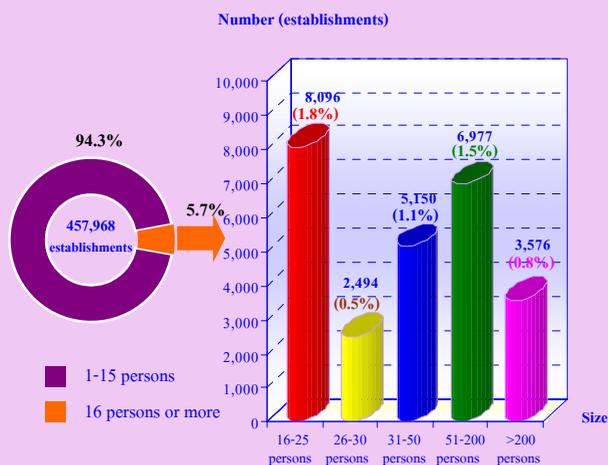
Figure 1 Percentage of manufacturing establishments by division of industry



Size of establishment

Most of manufacturing establishments or about 94.3 percent were small scale establishments with 1 - 15 persons. The establishments with over 15 persons were about 5.7 percent or 26,293 establishments. Out of these, with 51 - 200 persons were 6,977 establishments and 3,576 establishments with more than 200 persons.

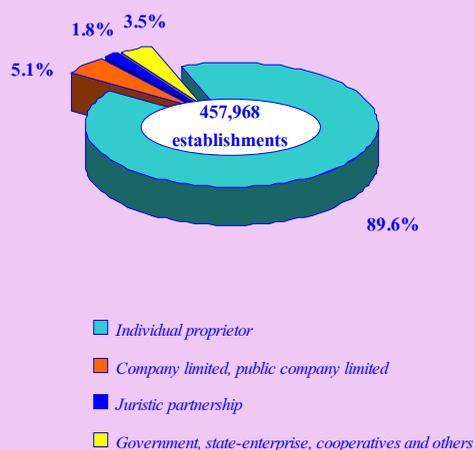
Figure 2 Number of manufacturing establishments by size of establishment (number of persons engaged)



Form of legal organization

Most of manufacturing establishments (about 89.6 percent) were individual proprietor. The establishments, which were in the form of company limited or public company limited of about 5.1 percent. For those, which were government, state enterprise cooperatives and others and juristic partnership had the proportions, of about 3.5 and 1.8 percent respectively.

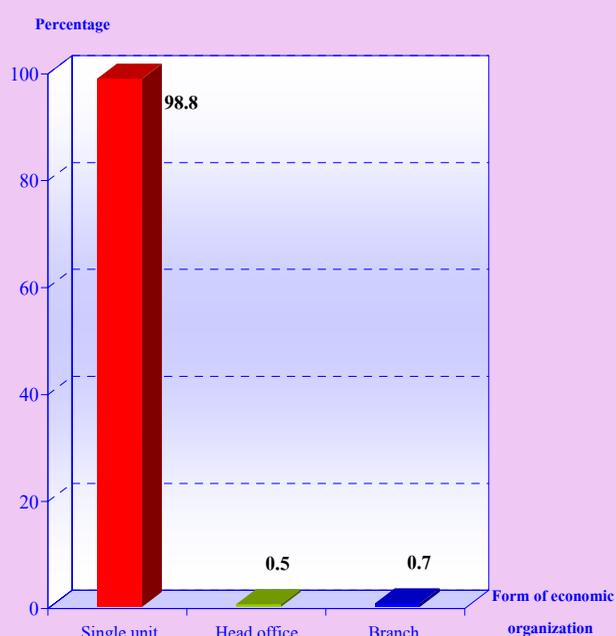
Figure 3 Percentage of manufacturing establishments by form of legal organization



Form of economic organization

The establishments found from the industrial census were single unit with the highest proportion, of about 98.8 percent. While the establishments were the branches and head offices had very small proportions, of about 0.7 and 0.5 percent respectively.

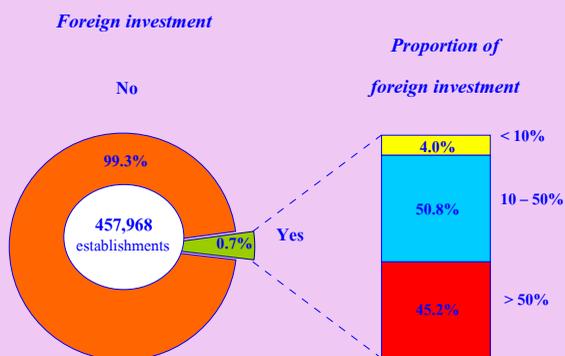
Figure 4 Percentage of manufacturing establishments by form of economic organization



Foreign investment or share holding

Most of manufacturing establishments (about 99.3 percent) in the Whole Kingdom, had no foreign investment or share holding, while the rest of about 3,161 establishments or about 0.7 percent did. Out of these, about 50.8 percent was 10 - 50% of share holding and about 45.2 percent was over 50% of share holding. The rest of only 4.0 percent was less than 10% of share holding (figure 5).

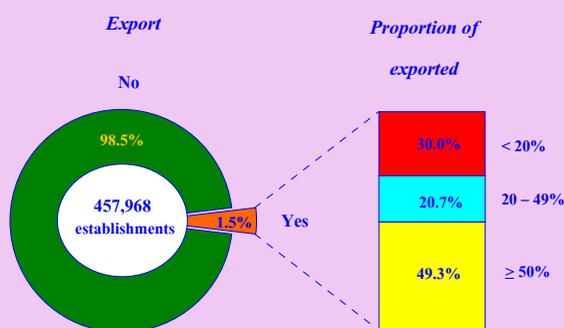
Figure 5 Percentage of manufacturing establishments by foreign investment or share holding



Export

For the export of goods of manufacturing establishments, there were only 6,867 establishments or 1.5 percent. Out of these, about 49.3 percent exported with 50% or more of the total sales of goods produced, about 30.0 percent exported less than 20%. The rest of about 20.7 percent was between 20 - 49% of export (figure 6).

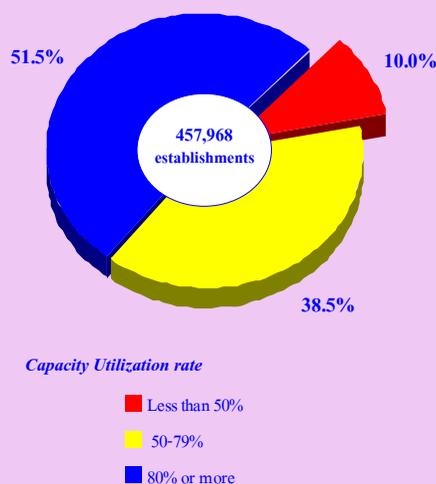
Figure 6 Percentage of manufacturing establishments by export



Capacity utilization rate

The capacity utilization rate for manufacturing establishments in 2006 was about 73.8%. The majority of manufacturing establishments (about 51.5 percent) had the capacity utilization rate at 80% or more. The establishments had capacity utilization rate of 50 - 79% was about 38.5 percent. While those with capacity utilization less than 50% was about 10.0 percent.

Figure 7 Percentage of manufacturing establishments by capacity utilization rate

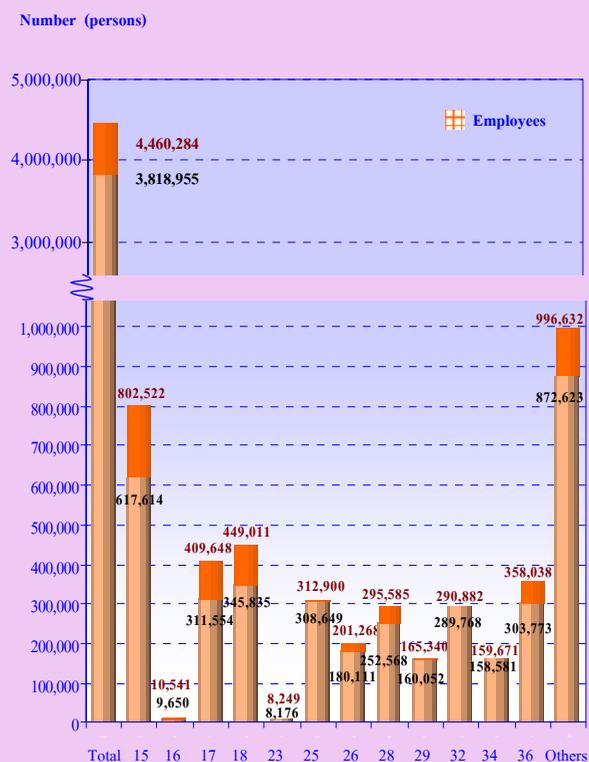


Number of persons engaged and employees

In 2006, the workers of the manufacturing establishments in the Whole Kingdom were totally 4.5 million persons. In terms of employees, there were totally 3.8 million persons. The employees worked in *manufacture of food and beverages* of about 16.2 percent. Followed by those worked in *manufacture of wearing apparel dressing and dyeing of fur* of about 9.0 percent. For the employees worked in the *manufacture of textiles*

and manufacture of rubber and plastic products were close proportions of about 8.2 and 8.1 percent respectively.

Figure 8 Number of persons engaged of manufacturing establishments by division of industry



Persons engaged refer to owner or juristic partnerships unpaid worker and employees.

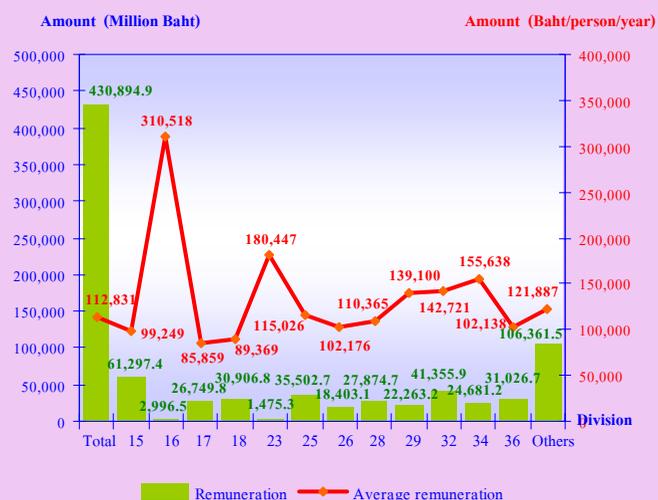
Division of industry :

- Division 15 Food and Beverages
- Division 16 Tobacco Products
- Division 17 Textiles
- Division 18 Wearing Apparel
- Division 23 Coke, Refined Petroleum Products
- Division 25 Rubber and Plastic Products
- Division 26 Non-Metallic Mineral Products
- Division 28 Fabricated metal
- Division 29 Machinery and Equipment n.e.c.
- Division 32 Radio, Television and Communication Equipment
- Division 34 Motor Vehicles, Trailers and Semi-Trailers
- Division 36 Furniture
- Other Divisions : 19-22, 24, 27, 30, 31, 33, 35 and 37

Remuneration

In 2006, the employees worked in manufacturing establishments in the Whole Kingdom received the total remuneration about 430,894.9 million baht or about 112,831 baht per person annually. The employees engaged in manufacturing of tobacco products received the highest annual remuneration of about 310,518 baht per person. Followed by those engaged in manufacture of coke, refined petroleum products and nuclear fuel and manufacture of motor vehicles, trailers and semi-trailers received the annual remuneration about 180,447 and 155,638 baht per person respectively.

Figure 9 Remuneration of manufacturing establishments by division of industry

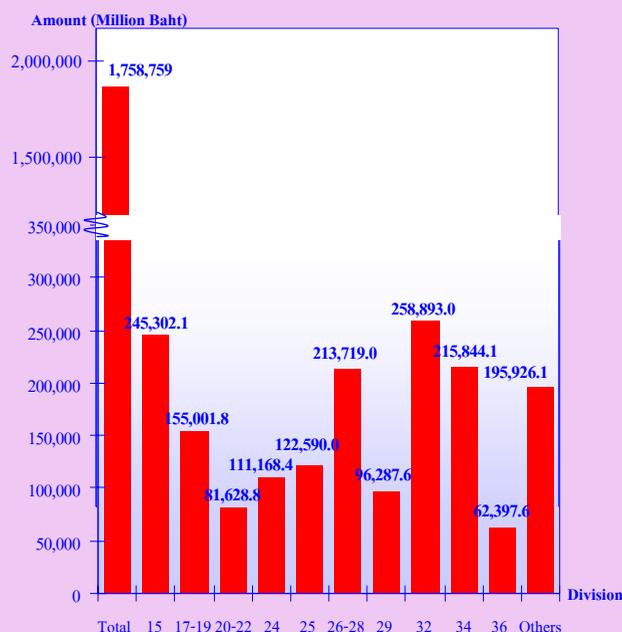


Value of gross output, intermediate consumption and value added

In 2006, the value of gross output of manufacturing establishments was totally 7.3 million million baht. The value of intermediate consumption and value added were totally 5.5

million million baht and 1.8 million million baht respectively. Comparing the value added to value of gross output, it was about 24.1 percent.

Figure 10 Value added of manufacturing establishments by division of industry



Value added = Value of gross output - Intermediate consumption

Value of gross output refers to receipts of establishment in 2006

Intermediate consumption refers to all expenses on the production process of goods or services in the establishment in 2006

Division of industry :

- Division 15 Food and Beverages
- Division 17-19 Textiles, Wearing Apparel, Leather Products
- Division 20-22 Wood and Wood Products, Paper and Paper Products and Printing
- Division 24 Chemicals and Chemical Products
- Division 25 Rubber and Plastic Products
- Division 26-28 Non-Metallic, Basic Metals and Fabricated Metal Products
- Division 29 Machinery and Equipment n.e.c.
- Division 32 Radio, Television and Communication Equipment and Apparatus
- Division 34 Motor Vehicles, Trailers and Semi-Trailers
- Division 36 Furniture; Manufacturing n.e.c.
- Other Divisions : 16, 23, 30, 31, 33, 35 and 37

For the average value of gross output was about 15.9 million baht per establishment and 1.6 million baht per person. In terms of the average value added, there was about 3.8 million baht per establishment and 394,315 baht per person.

Considering by division of industry, it was found that the value added was from *manufacture of radio television and communication equipment and apparatus* (about 14.7 percent) and 14.0 percent was from *manufacture of food products and beverages*. The *manufacture of motor vehicles, trailers and semi-trailers and non-metallic, basic metals and fabricated metal products* had the close proportions about 12.3 and 12.2 percent respectively.

Data comparison of manufacturing establishments during 10 years

Comparing the data of industrial census in 2007 and 1997 of which the operation period was of the year in 2006 and 1996, the results showed that number of manufacturing establishments with 11 persons or more increased by 46.2%, as well as number of persons engaged increased by 47.5% and the average number of persons engaged per establishment increased from 103 persons to 104 persons or increased by 0.9%.

In terms of employment, number of employees increased from 2.4 million persons to 3.5 million persons or increased by 45.6%. Moreover, the annual remuneration during 10 years increased by 74.4%

For the value of gross output, intermediate consumption and value added of manufacturing establishments during 10 years increased by 100.7%, 113.1% and 69.0% respectively.

Table 1 Principal data of manufacturing establishments in year 1996 and 2006

Data items	1996 ^{1/}	2006 ^{2/}	% Change
Number of establishments (Establishments)	23,677	34,625	46.2
Number of persons engaged (Persons)	2,431,584	3,585,561	47.5
<i>Average per establishment (Persons)</i>	<i>102.7</i>	<i>103.6</i>	<i>0.9</i>
Number of employees (Persons)	2,413,325	3,514,962	45.6
<i>Average per establishment (Persons)</i>	<i>101.9</i>	<i>101.5</i>	<i>- 0.4</i>
Remuneration (Million Baht)	236,571.1	412,544.5	74.4
<i>Average annual per employee (Baht)</i>	<i>98,027.0</i>	<i>117,368.1</i>	<i>19.7</i>
Value of gross output (Million Baht)	3,541,257.3	7,106,436.1	100.7
<i>Average per establishment (Thousand Baht)</i>	<i>149,565.3</i>	<i>205,240.0</i>	<i>37.2</i>
<i>Average per person (Thousand Baht)</i>	<i>1,456.4</i>	<i>1,982.0</i>	<i>36.1</i>
Intermediate consumption (Million Baht)	2,543,112.8	5,419,689.6	113.1
<i>Average per establishment (Thousand Baht)</i>	<i>107,408.6</i>	<i>156,525.3</i>	<i>45.7</i>
<i>Average per person (Thousand Baht)</i>	<i>1,048.2</i>	<i>1,511.5</i>	<i>44.2</i>
Value added (Million Baht)	998,144.5	1,686,746.5	69.0
<i>Average per establishment (Thousand Baht)</i>	<i>42,156.7</i>	<i>48,714.7</i>	<i>15.6</i>
<i>Average per person (Thousand Baht)</i>	<i>410.5</i>	<i>470.4</i>	<i>14.6</i>

Note : ^{1/} The 1997 industrial census: Whole Kingdom, Coverage : manufacturing establishments with 10 persons engaged or more.

^{2/} The 2007 industrial census: Whole Kingdom, Only manufacturing establishments with 11 persons engaged or more.

Data summary and recommendation

The results of the 2007 Industrial Census, show that there were totally 457,968 manufacturing establishments in the Whole Kingdom. Most of them were small scale establishments with 1 - 15 persons, of about 94.3 percent. The highlight industry was *manufacture of food products and beverages* (about 25.3 percent). There were totally 4.5 million persons and almost 3.8 million persons were employees. They received the annual remuneration, of about 112,831 baht per person. The manufacturing establishments in the Whole Kingdom provided value of gross output, intermediate consumption and value added 7.3, 5.5 and 1.8 million million baht respectively.

Comparing the data of industrial census in 2007 and 1997, as the result, the operation of establishments in the Whole Kingdom during 10 years was favorably growth. It was effected by the increasing in number of establishments, as well as the employment and value of gross output. Furthermore, the Thai economy continues her sustainable growth should emphasize on manufacturing development investment promotion, increasing productivity and employment and goods and services improvement in order to support the demand in the country and from abroad.